

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: P256774

Luminaire Tested: **ULA-A4-D-U-ASYM-VMx-7030-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256774
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-A4-D-U-ASYM-VMx-7030-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (60) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3734.3 lumens
Efficiency: N/A
Efficacy: 125.7 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



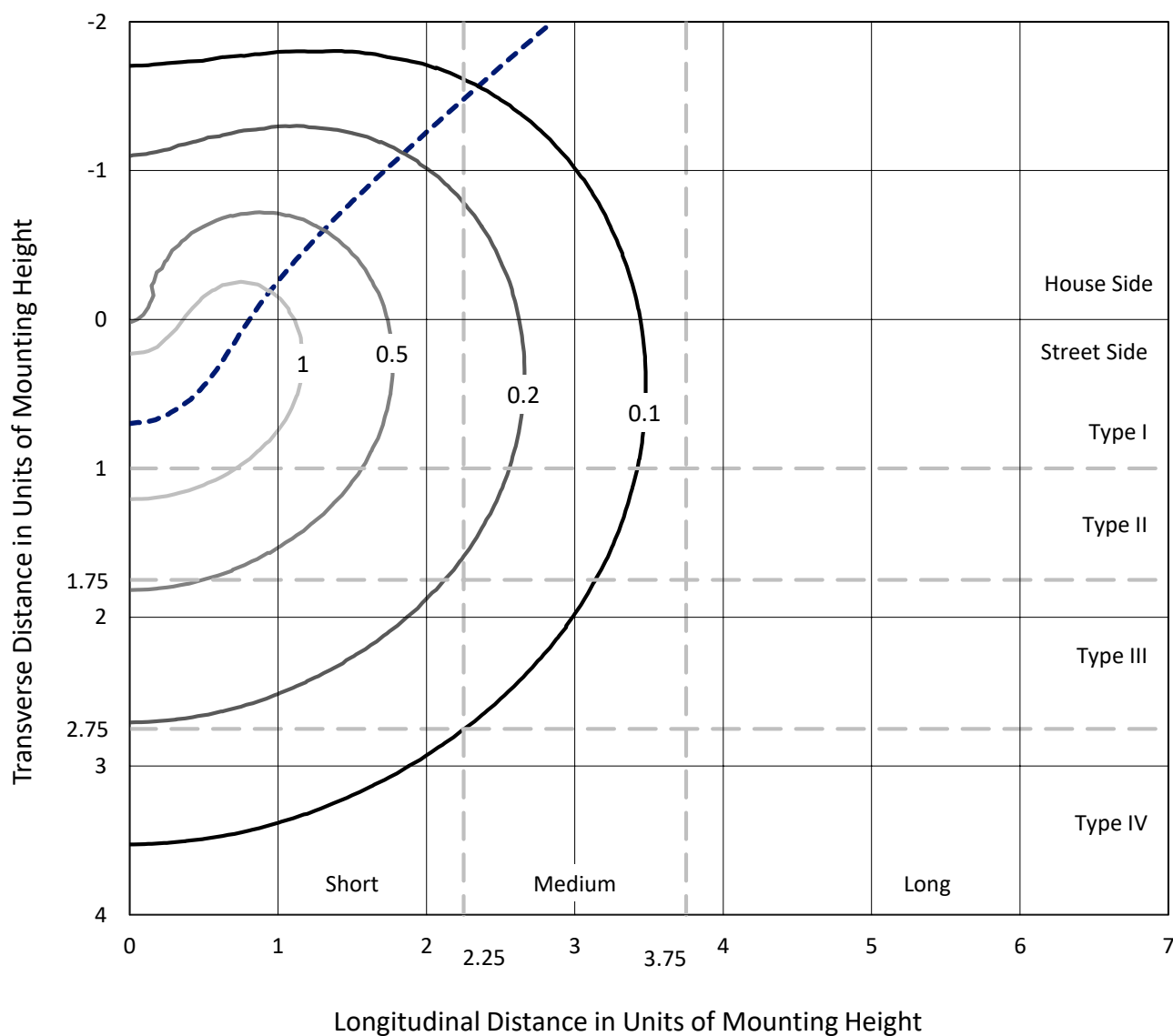
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

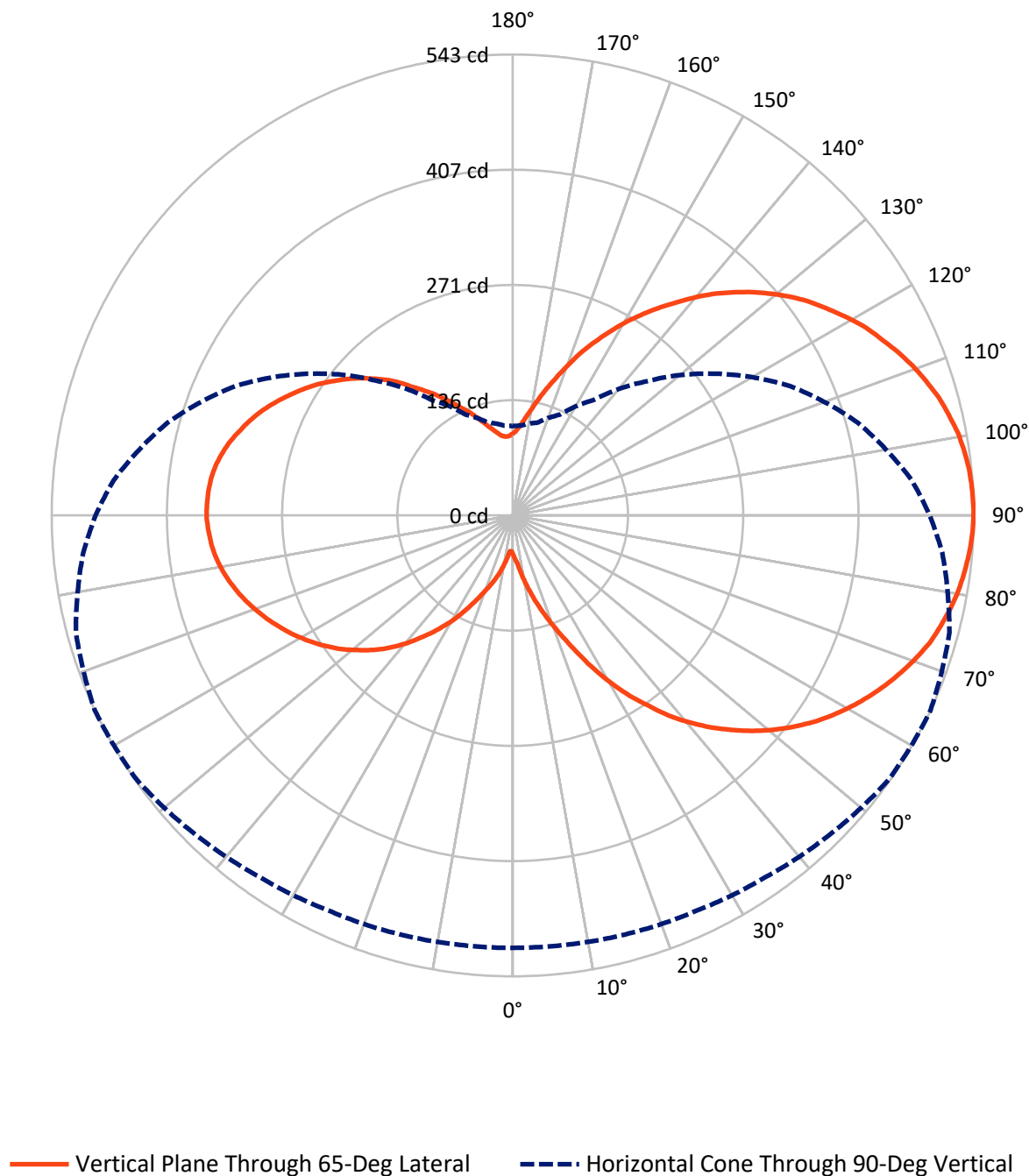


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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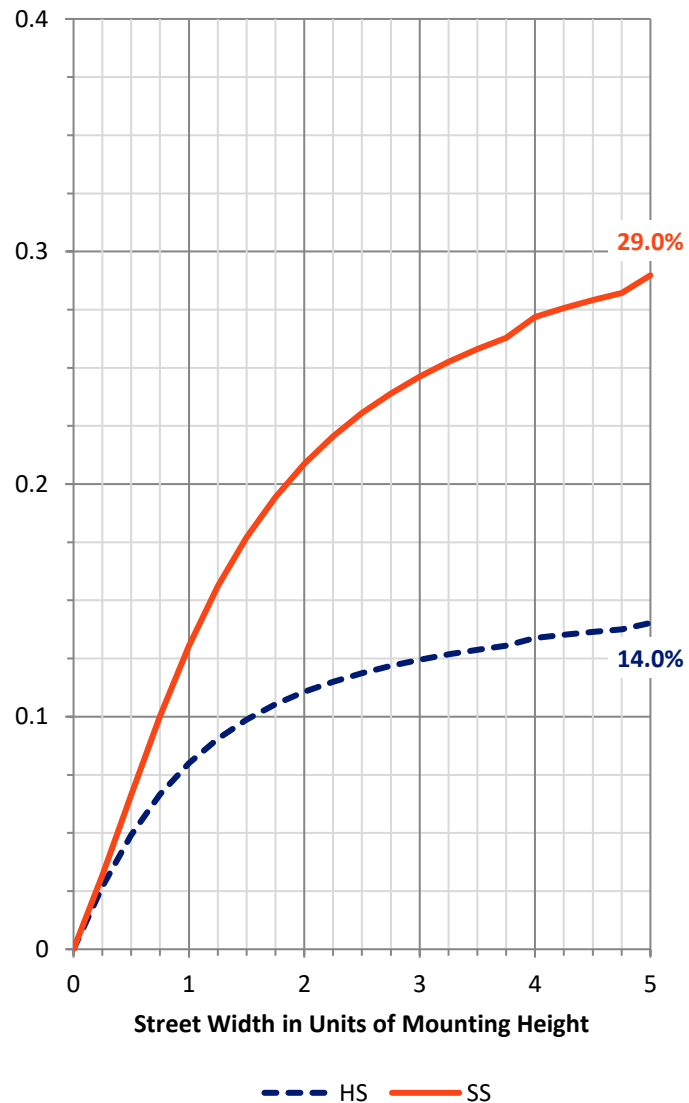
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.8	615.3	1201.0
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1252.4	1280.9	2533.3
	% Fixture	33.5	34.3	67.8
Total	Lumens	1838.2	1896.1	3734.3
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	25.4	0.7
20°-30°	64.1	1.7
30°-40°	124.9	3.3
40°-50°	198.1	5.3
50°-60°	271.9	7.3
60°-70°	338.2	9.1
70°-80°	390.5	10.5
80°-90°	419.9	11.2
90°-100°	421.5	11.3
100°-110°	393.2	10.5
110°-120°	341.1	9.1
120°-130°	275.9	7.4
130°-140°	204.5	5.5
140°-150°	135.4	3.6
150°-160°	78.3	2.1
160°-170°	36.4	1.0
170°-180°	9.8	0.3
0°-90°	1838.2	49.2
0°-180°	3734.3	100.0

Coefficient of Utilization



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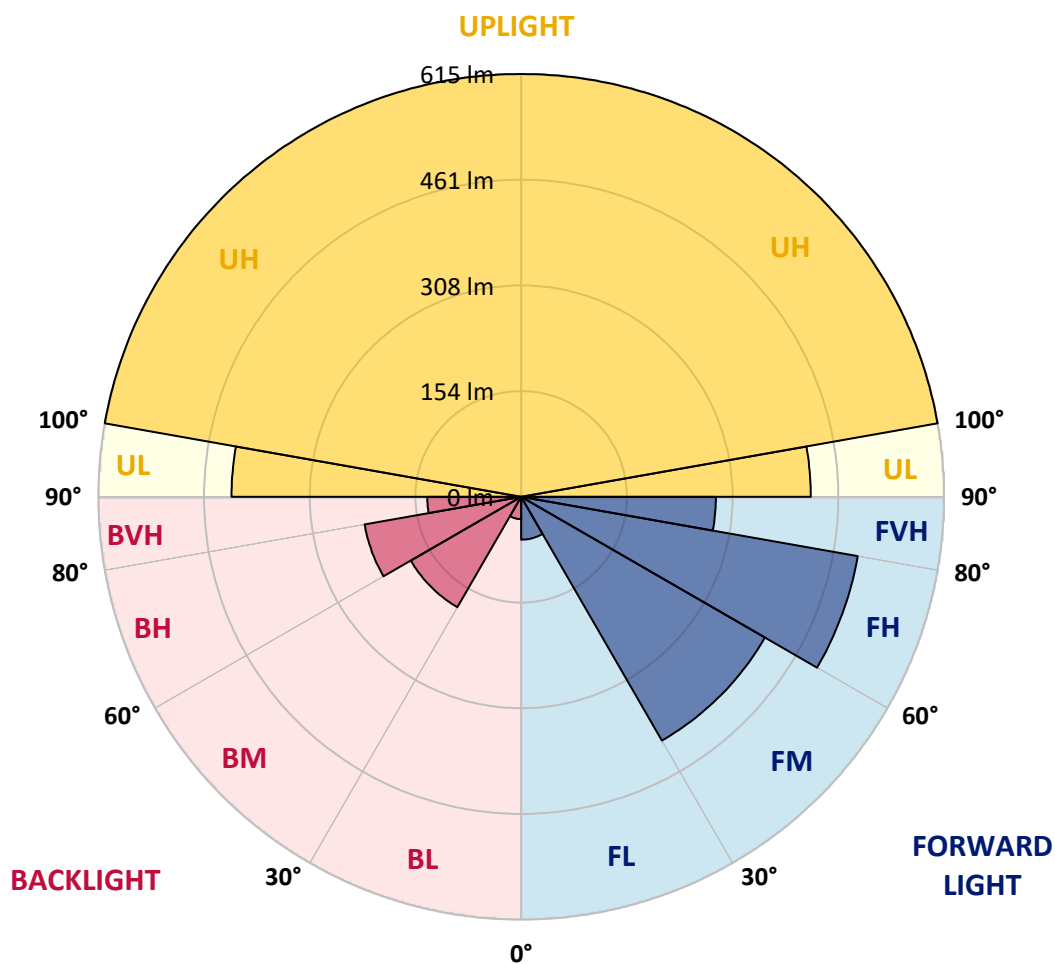
CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7030-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	62.3	1.7			
FM	(30°-60°)	409.5	11.0			
FH	(60°-80°)	497.3	13.3			G0/660
FVH	(80°-90°)	283.3	7.6			G3/500
BL	(0°-30°)	32.4	0.9	B0/110		
BM	(30°-60°)	185.4	5.0	B0/220		
BH	(60°-80°)	231.3	6.2	B1/500		G1/500
BVH	(80°-90°)	136.6	3.7			G2/225
UL	(90°-100°)	421.5	11.3		U3/500	
UH	(100°-180°)	615.3	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°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
2.5°	55.8	54.2	54.2	53.4	53.4	52.6	51.8	51.0	49.4	47.8	47.0
5°	66.9	66.1	66.1	64.5	62.9	61.3	59.0	56.6	54.2	51.0	50.2
7.5°	79.7	78.9	78.9	76.5	74.9	72.5	70.1	66.9	63.7	60.5	59.0
10°	92.4	91.6	91.6	90.0	88.4	85.2	82.1	79.7	74.9	70.9	69.3
12.5°	106.0	104.4	104.4	102.8	102.0	99.6	96.4	93.2	87.6	82.9	80.5
15°	118.7	117.9	117.9	117.1	116.3	113.9	110.7	107.6	102.0	96.4	93.2
17.5°	133.1	132.3	131.5	131.5	131.5	129.1	126.7	123.5	117.1	109.9	106.8
20°	149.0	147.4	147.4	148.2	148.2	146.6	144.2	140.2	133.8	125.9	121.1
22.5°	165.7	164.9	165.7	165.7	166.5	165.7	163.3	159.3	153.0	143.4	137.8
25°	184.0	183.2	184.8	185.6	187.2	188.0	185.6	180.9	173.7	162.5	156.2
27.5°	206.3	205.6	206.3	209.5	210.3	211.1	209.5	205.6	196.8	184.0	176.1
30°	226.3	226.3	227.9	230.2	232.6	234.2	232.6	229.5	219.9	205.6	196.8
32.5°	247.0	247.8	248.6	251.8	254.9	257.3	255.7	253.4	242.2	228.7	217.5
35°	269.3	270.1	270.1	274.1	278.1	279.6	280.4	274.9	266.1	249.4	237.4
37.5°	291.6	290.8	291.6	295.6	299.6	302.0	302.7	299.6	288.4	270.1	258.1
40°	310.7	310.7	312.3	316.3	320.3	323.5	324.3	320.3	309.9	290.0	277.3
42.5°	330.6	330.6	332.2	335.4	340.2	343.4	345.0	341.0	329.0	309.9	295.6
45°	349.0	349.0	350.6	354.5	359.3	362.5	364.9	360.1	348.2	328.2	314.7
47.5°	366.5	367.3	368.1	371.3	376.8	380.0	383.2	379.2	366.5	344.2	330.6
50°	383.2	384.0	384.8	388.8	392.8	396.8	400.7	396.8	384.8	361.7	346.6
52.5°	398.4	399.2	400.7	402.3	407.9	412.7	416.7	413.5	399.9	376.8	360.9
55°	414.3	414.3	415.1	416.7	422.3	427.8	432.6	429.4	415.9	392.0	376.0
57.5°	427.8	427.8	428.6	430.2	435.0	440.6	446.2	443.8	430.2	405.5	389.6
60°	439.8	439.8	440.6	442.2	447.0	454.1	459.7	457.3	443.8	418.3	402.3
62.5°	451.7	451.7	452.5	454.1	458.9	466.1	472.4	470.1	456.5	431.0	414.3
65°	462.1	462.1	462.1	463.7	469.3	477.2	483.6	482.0	467.7	443.0	425.4
67.5°	471.7	471.7	471.7	472.4	478.8	486.8	494.8	493.2	479.6	454.1	435.8
70°	481.2	479.6	481.2	481.2	487.6	496.4	504.3	503.5	490.0	464.5	446.2
72.5°	488.4	487.6	488.4	490.0	495.6	504.3	513.1	513.1	499.5	473.2	455.7
75°	494.0	494.0	494.0	495.6	501.9	511.5	520.3	520.3	507.5	481.2	463.7
77.5°	499.5	499.5	500.3	501.1	507.5	517.1	527.4	526.6	514.7	488.4	471.7
80°	503.5	502.7	503.5	505.9	511.5	521.8	532.2	532.2	520.3	494.8	477.2
82.5°	506.7	505.9	506.7	509.1	514.7	525.8	536.2	536.2	525.0	500.3	482.8
85°	508.3	508.3	509.1	511.5	517.1	528.2	538.6	539.4	529.0	504.3	486.8
87.5°	509.1	509.1	509.9	513.1	518.7	529.0	540.2	541.8	531.4	505.9	489.2
90°	509.1	509.1	510.7	513.1	519.5	529.8	541.0	542.6	532.2	507.5	490.8
92.5°	509.1	508.3	510.7	513.1	518.7	529.0	540.2	541.8	532.2	507.5	490.8
95°	507.5	506.7	509.1	511.5	517.1	527.4	537.8	540.2	530.6	506.7	489.2
97.5°	504.3	504.3	505.9	509.1	514.7	524.2	535.4	537.0	527.4	503.5	486.8
100°	501.1	501.1	502.7	505.1	510.7	521.0	530.6	533.0	521.8	499.5	482.0
102.5°	497.1	497.1	497.9	500.3	506.7	516.3	525.0	526.6	517.1	493.2	476.4
105°	491.6	490.8	492.4	494.8	500.3	509.9	518.7	520.3	509.1	486.0	469.3
107.5°	484.4	484.4	484.4	487.6	493.2	502.7	510.7	511.5	500.3	477.2	459.7
110°	477.2	477.2	477.2	479.6	486.0	494.8	502.7	502.7	490.8	467.7	451.7



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CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7030-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	469.3	468.5	468.5	470.9	477.2	486.0	494.0	492.4	480.4	457.3	441.4
115°	459.7	459.7	458.9	461.3	468.5	476.4	483.6	481.2	470.1	446.2	430.2
117.5°	450.1	449.3	449.3	451.7	458.1	466.9	473.2	470.9	458.1	435.0	419.1
120°	439.8	439.0	438.2	440.6	447.8	455.7	461.3	458.1	444.6	422.3	407.1
122.5°	427.8	427.0	427.0	429.4	436.6	444.6	449.3	444.6	432.6	409.5	394.4
125°	415.1	415.9	415.1	417.5	423.8	432.6	436.6	431.8	419.1	396.0	380.8
127.5°	402.3	402.3	401.5	404.7	411.1	419.1	423.1	417.5	404.7	381.6	367.3
130°	388.8	388.8	388.0	391.2	397.6	404.7	407.1	401.5	388.8	366.5	352.1
132.5°	373.7	374.5	374.5	377.6	383.2	388.8	392.0	385.6	372.9	351.3	337.0
135°	359.3	358.5	359.3	361.7	368.1	372.9	373.7	368.1	356.1	334.6	321.1
137.5°	342.6	343.4	343.4	345.8	351.3	356.1	356.9	350.6	338.6	317.9	304.3
140°	326.7	326.7	328.2	329.8	333.8	337.8	337.8	331.4	320.3	299.6	286.8
142.5°	309.9	309.9	310.7	313.9	317.1	319.5	318.7	312.3	301.2	281.2	270.1
145°	294.0	294.0	294.8	297.2	299.6	301.2	299.6	294.0	282.8	262.9	252.6
147.5°	278.8	278.1	279.6	281.2	282.8	283.6	282.0	275.7	263.7	247.0	235.8
150°	262.9	262.9	262.9	265.3	266.1	266.1	263.7	257.3	246.2	229.5	219.9
152.5°	247.0	246.2	247.0	247.8	248.6	247.8	244.6	238.2	227.9	212.7	204.0
155°	230.2	230.2	231.0	231.0	231.0	230.2	227.1	219.9	210.3	196.8	186.4
157.5°	214.3	214.3	214.3	214.3	214.3	212.7	208.7	202.4	191.2	179.3	172.9
160°	198.4	198.4	197.6	196.8	196.0	192.8	189.6	183.2	175.3	164.9	159.3
162.5°	180.9	180.1	180.1	179.3	178.5	176.1	172.1	166.5	159.3	150.6	145.8
165°	164.9	164.1	163.3	163.3	161.7	159.3	156.2	151.4	145.0	137.0	133.1
167.5°	150.6	149.8	149.0	149.0	147.4	144.2	141.0	137.0	131.5	125.1	121.9
170°	137.8	137.0	136.2	135.4	133.8	131.5	128.3	124.3	120.3	115.5	112.3
172.5°	125.1	124.3	123.5	123.5	121.9	119.5	117.1	113.9	110.7	106.8	105.2
175°	113.1	113.9	113.1	112.3	111.5	109.1	107.6	105.2	103.6	101.2	99.6
177.5°	103.6	104.4	104.4	103.6	102.8	101.2	100.4	98.8	98.0	96.4	95.6
180°	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
2.5°	46.2	43.8	42.2	39.8	37.4	35.9	34.3	32.7	31.9	31.9
5°	47.8	45.4	42.2	39.0	36.6	33.5	31.9	30.3	29.5	29.5
7.5°	56.6	53.4	49.4	45.4	42.2	38.2	35.9	34.3	33.5	33.5
10°	66.1	62.1	57.4	52.6	48.6	44.6	41.4	39.0	38.2	38.2
12.5°	77.3	71.7	66.1	59.8	55.0	49.4	46.2	43.8	43.0	42.2
15°	89.2	82.1	74.9	66.9	60.5	55.0	50.2	47.0	46.2	46.2
17.5°	102.0	92.4	83.7	74.1	66.1	58.2	53.4	49.4	47.8	47.8
20°	115.5	104.4	92.4	81.3	70.9	62.1	55.0	51.0	48.6	48.6
22.5°	131.5	117.9	102.8	89.2	77.3	66.1	57.4	51.8	49.4	48.6
25°	148.2	131.5	114.7	98.8	83.7	70.1	60.5	54.2	50.2	50.2
27.5°	166.5	147.4	127.5	108.4	90.0	74.9	62.9	55.8	51.8	51.0
30°	186.4	164.1	141.0	117.9	97.2	79.7	66.1	57.4	53.4	52.6
32.5°	205.6	180.1	153.8	128.3	104.4	83.7	69.3	59.8	55.0	54.2
35°	226.3	197.6	167.3	138.6	111.5	88.4	71.7	61.3	56.6	55.8
37.5°	245.4	214.3	180.1	148.2	118.7	93.2	74.9	63.7	58.2	57.4
40°	263.7	231.0	194.4	158.5	125.9	98.0	78.1	66.1	59.8	59.0
42.5°	281.2	247.0	207.9	168.1	132.3	102.8	81.3	68.5	62.1	61.3
45°	298.8	261.3	220.7	177.7	139.4	106.8	84.5	70.1	64.5	62.9
47.5°	314.7	275.7	232.6	187.2	145.8	111.5	86.8	72.5	66.1	65.3
50°	329.8	290.0	243.8	196.8	152.2	115.5	90.0	74.9	68.5	67.7
52.5°	344.2	302.7	255.7	206.3	157.7	119.5	93.2	77.3	70.9	70.1
55°	357.7	315.5	266.1	214.3	164.1	123.5	95.6	80.5	73.3	72.5
57.5°	372.1	327.4	276.5	223.1	169.7	127.5	98.8	82.9	75.7	74.9
60°	383.2	338.6	286.0	230.2	175.3	131.5	102.0	85.2	78.1	77.3
62.5°	396.0	349.0	295.6	238.2	180.9	135.4	105.2	88.4	81.3	80.5
65°	406.3	359.3	304.3	245.4	185.6	138.6	107.6	90.8	83.7	82.9
67.5°	417.5	369.7	313.1	252.6	191.2	142.6	110.7	94.0	86.8	86.0
70°	427.0	378.4	321.1	258.9	196.8	146.6	113.9	96.4	90.0	88.4
72.5°	435.8	388.0	329.0	265.3	203.2	149.8	117.1	99.6	92.4	91.6
75°	443.8	395.2	336.2	270.9	207.1	153.0	119.5	102.0	95.6	94.0
77.5°	451.7	402.3	342.6	276.5	211.1	157.0	122.7	105.2	98.0	97.2
80°	458.1	407.9	348.2	280.4	214.3	159.3	125.1	107.6	100.4	99.6
82.5°	462.9	412.7	352.9	284.4	217.5	161.7	126.7	109.1	102.0	101.2
85°	466.9	416.7	356.1	287.6	220.7	163.3	129.1	110.7	103.6	102.8
87.5°	470.1	419.1	358.5	290.0	221.5	164.9	129.9	112.3	105.2	104.4
90°	471.7	420.7	360.1	290.8	223.1	165.7	130.7	113.1	106.0	105.2
92.5°	470.9	420.7	360.1	291.6	223.9	166.5	131.5	113.1	106.0	105.2
95°	470.1	419.9	359.3	290.8	223.1	166.5	131.5	113.1	106.0	105.2
97.5°	466.9	417.5	357.7	289.2	222.3	165.7	129.9	112.3	105.2	104.4
100°	462.9	412.7	354.5	286.8	220.7	164.1	129.1	110.7	103.6	102.8
102.5°	456.5	407.9	349.8	283.6	217.5	161.7	126.7	109.1	102.0	101.2
105°	449.3	401.5	344.2	278.8	214.3	159.3	124.3	106.8	99.6	98.8
107.5°	442.2	392.8	337.0	273.3	210.3	156.2	121.9	104.4	97.2	96.4
110°	432.6	384.8	329.8	267.7	205.6	152.2	118.7	101.2	94.8	93.2



REPORT NUMBER: P256774

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7030-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	422.3	376.0	321.9	260.5	200.8	149.0	116.3	98.8	91.6	90.8
115°	411.9	365.7	313.1	254.2	193.6	145.0	113.1	96.4	89.2	88.4
117.5°	400.7	355.3	303.5	246.2	188.0	141.0	109.9	93.2	86.0	85.2
120°	388.8	345.0	294.0	238.2	182.4	137.0	106.8	90.8	83.7	82.9
122.5°	376.8	333.8	284.4	231.0	176.9	133.1	104.4	87.6	81.3	79.7
125°	364.1	321.9	274.1	222.3	171.3	129.9	101.2	85.2	78.9	78.1
127.5°	350.6	309.1	262.9	213.5	164.9	125.9	98.8	83.7	76.5	75.7
130°	336.2	297.2	252.6	205.6	159.3	121.9	96.4	81.3	74.1	73.3
132.5°	321.1	283.6	241.4	195.2	153.0	117.9	93.2	78.9	72.5	71.7
135°	305.1	270.1	229.5	185.6	146.6	113.9	90.8	77.3	70.9	70.1
137.5°	290.0	255.7	218.3	176.9	141.0	110.7	89.2	75.7	70.1	69.3
140°	272.5	240.6	205.6	168.1	134.6	106.8	86.8	74.1	68.5	67.7
142.5°	255.7	226.3	192.0	159.3	129.1	103.6	85.2	73.3	67.7	66.9
145°	239.8	211.9	180.9	151.4	123.5	100.4	82.9	72.5	67.7	66.9
147.5°	224.7	199.2	170.5	143.4	117.9	97.2	81.3	71.7	66.9	66.1
150°	209.5	184.0	159.3	135.4	113.1	94.0	80.5	70.9	66.9	66.1
152.5°	192.0	171.3	149.8	128.3	108.4	91.6	78.9	70.9	66.9	66.9
155°	178.5	159.3	140.2	121.1	104.4	90.0	78.9	71.7	67.7	67.7
157.5°	164.9	149.0	132.3	115.5	101.2	88.4	78.9	72.5	69.3	69.3
160°	152.2	138.6	124.3	110.7	98.0	87.6	78.9	73.3	70.9	70.1
162.5°	140.2	128.3	116.3	105.2	94.8	86.0	78.9	74.1	71.7	71.7
165°	128.3	118.7	109.1	100.4	92.4	84.5	78.9	75.7	73.3	73.3
167.5°	117.9	110.7	103.6	96.4	90.0	84.5	79.7	76.5	75.7	74.9
170°	109.9	104.4	98.8	93.2	88.4	83.7	80.5	78.9	77.3	77.3
172.5°	102.8	98.8	94.8	90.8	87.6	84.5	82.9	81.3	80.5	80.5
175°	98.0	95.6	93.2	90.8	89.2	86.8	86.0	85.2	84.5	84.5
177.5°	95.6	94.0	93.2	92.4	91.6	90.8	90.8	90.0	90.0	90.0
180°	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6

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