

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: P256792

Luminaire Tested: **ULA-A3-D-U-ASYM-VMx-7030-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256792
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-7030-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2821.3 lumens
Efficiency: N/A
Efficacy: 131.8 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

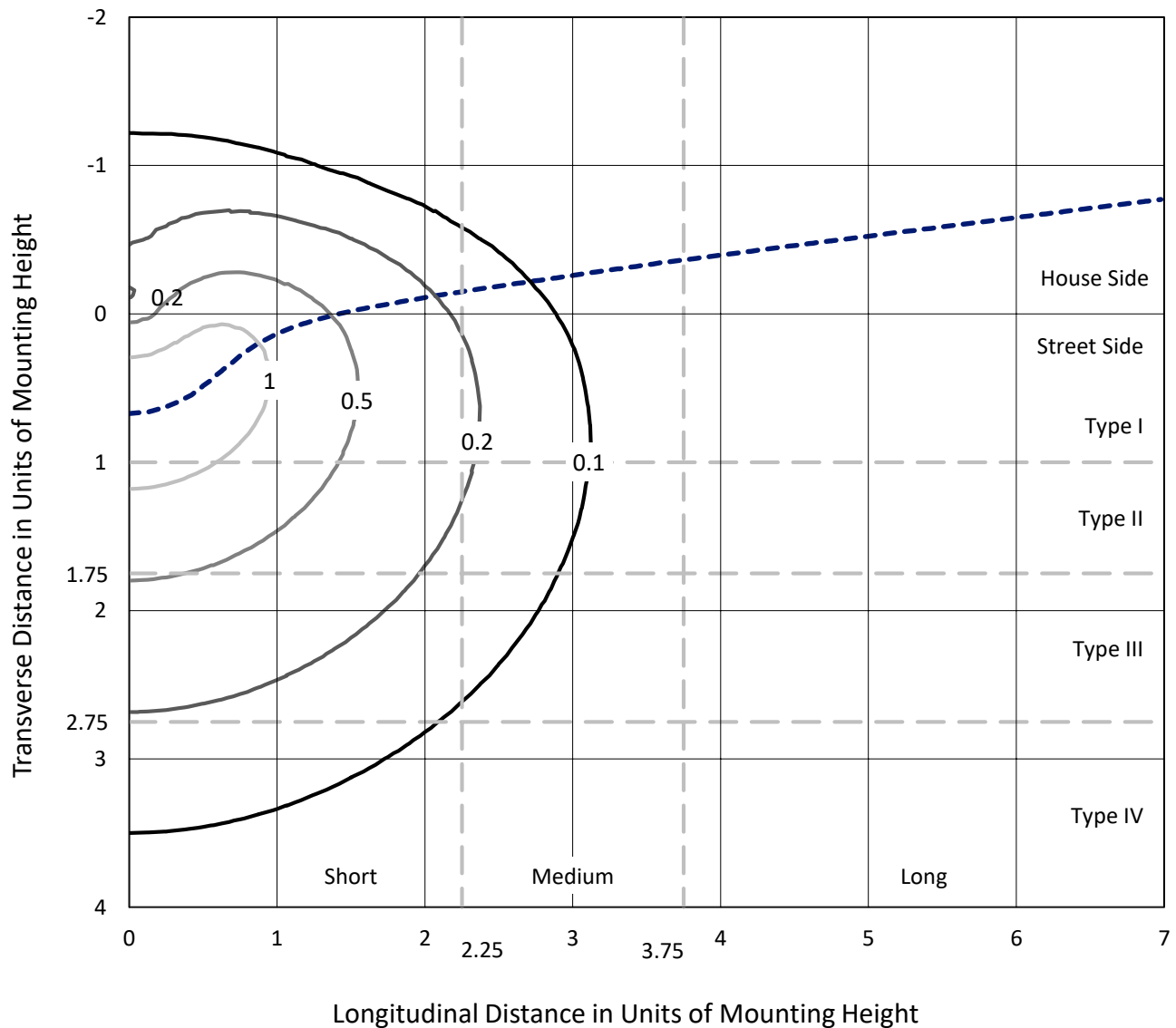


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

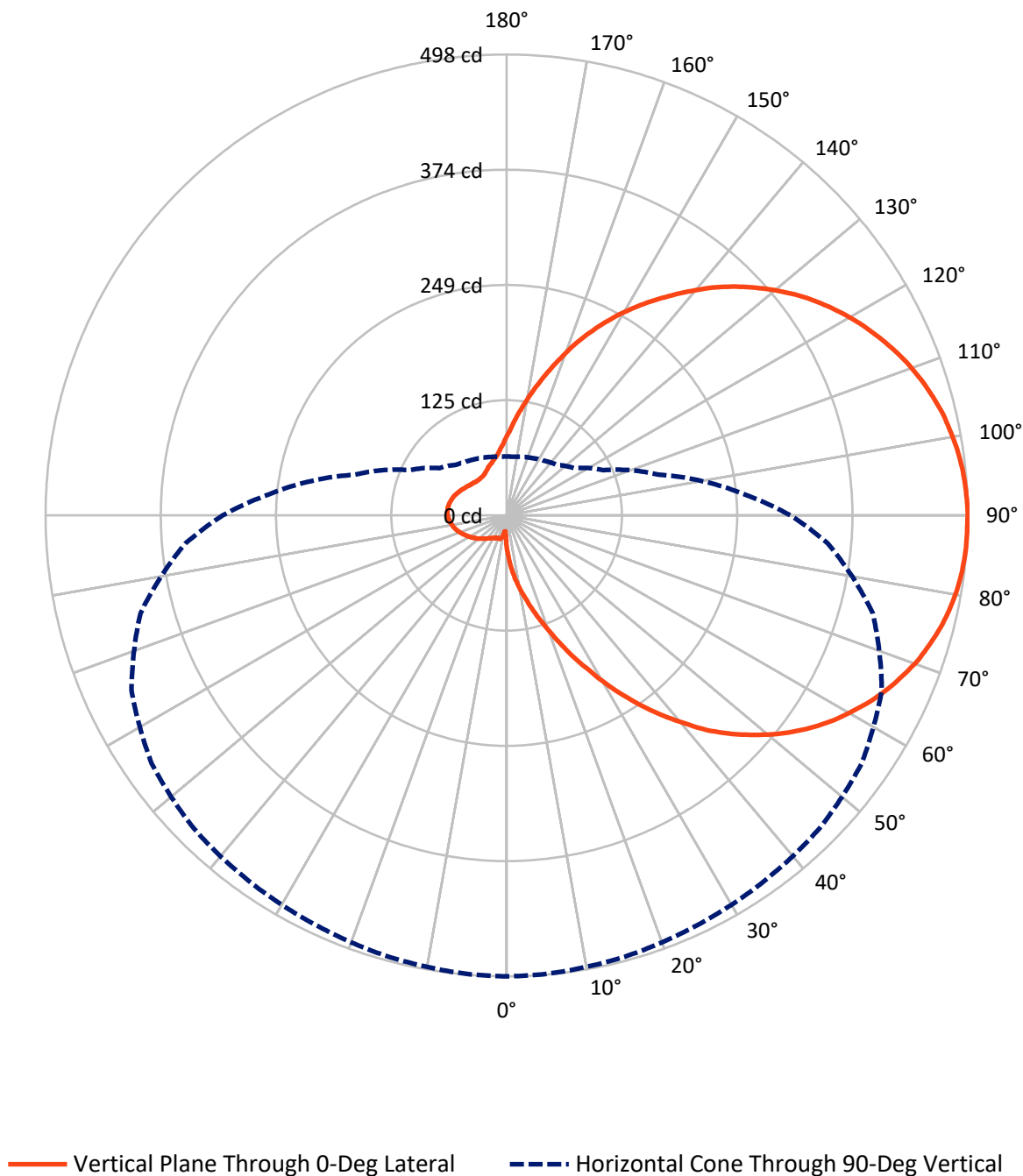


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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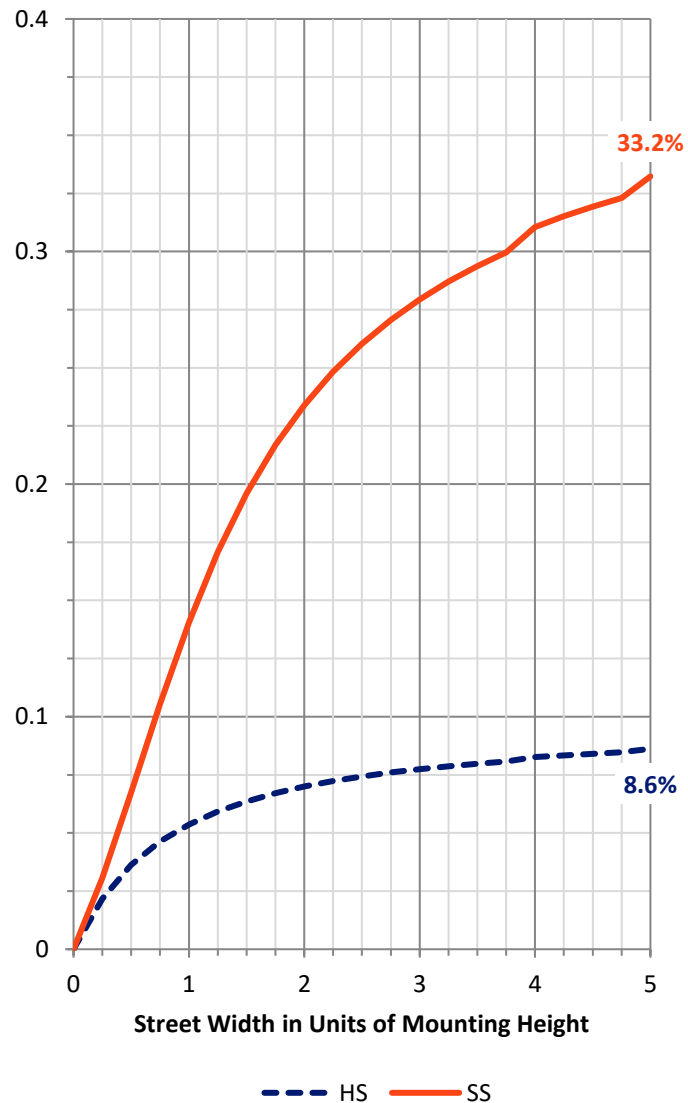
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.8	327.7	597.5
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1094.2	1129.6	2223.8
	% Fixture	38.8	40.0	78.8
Total	Lumens	1364.0	1457.3	2821.3
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	19.6	0.7
20°-30°	49.1	1.7
30°-40°	94.6	3.4
40°-50°	149.1	5.3
50°-60°	203.1	7.2
60°-70°	250.7	8.9
70°-80°	286.9	10.2
80°-90°	306.7	10.9
90°-100°	308.1	10.9
100°-110°	290.7	10.3
110°-120°	258.1	9.1
120°-130°	215.3	7.6
130°-140°	164.9	5.8
140°-150°	112.8	4.0
150°-160°	67.1	2.4
160°-170°	31.7	1.1
170°-180°	8.6	0.3
0°-90°	1364.0	48.3
0°-180°	2821.3	100.0

Coefficient of Utilization



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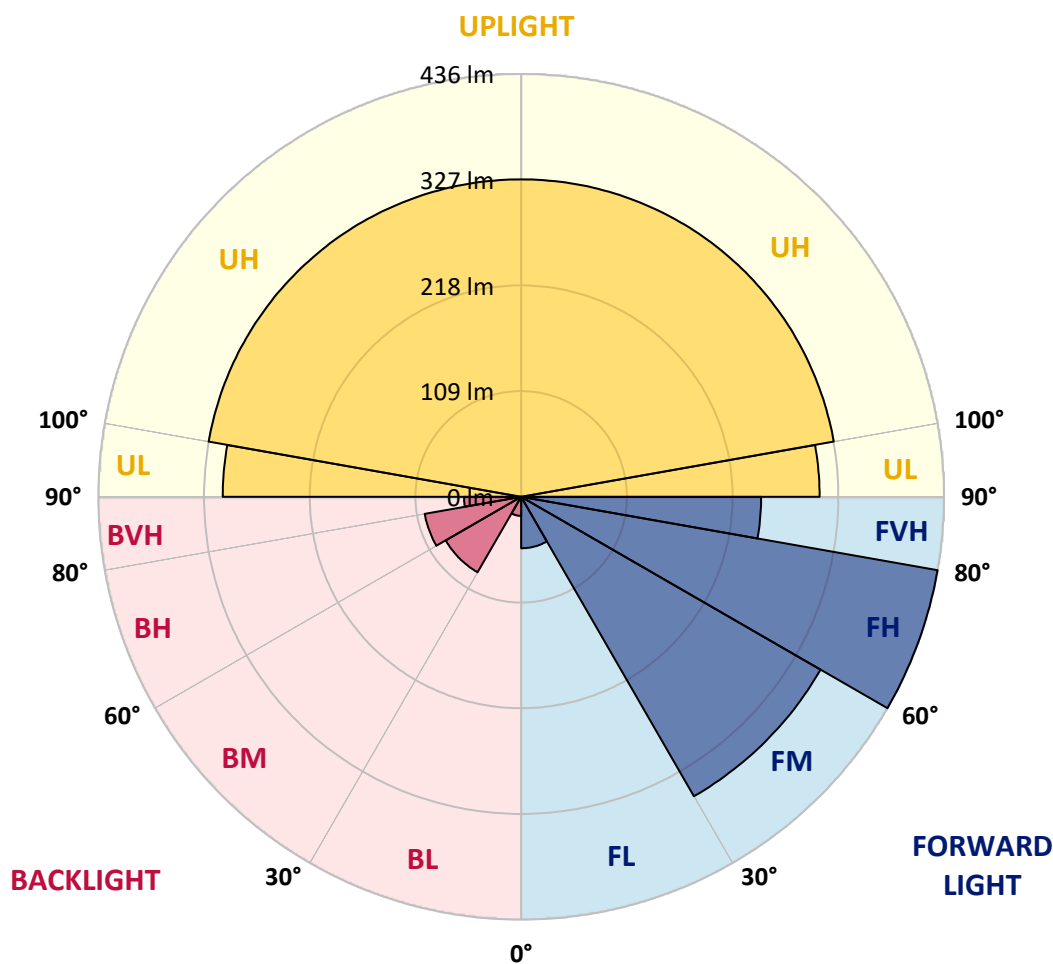
CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.1	1.9			
FM	(30°-60°)	356.9	12.6			
FH	(60°-80°)	436.5	15.5			G0/660
FVH	(80°-90°)	247.7	8.8			G3/500
BL	(0°-30°)	19.7	0.7	B0/110		
BM	(30°-60°)	89.9	3.2	B0/220		
BH	(60°-80°)	101.1	3.6	B0/110		G0/110
BVH	(80°-90°)	59.0	2.1			G1/100
UL	(90°-100°)	308.1	10.9		U3/500	
UH	(100°-180°)	327.7	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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	46.6	45.8	45.8	45.3	45.3	43.7	42.1	40.4	38.4	37.2	36.4
5°	58.8	57.6	57.2	56.0	54.7	51.9	49.8	46.6	43.7	40.0	38.4
7.5°	70.3	69.5	68.2	66.6	65.4	61.7	58.8	54.7	51.1	47.0	45.3
10°	81.7	80.9	79.7	78.0	75.6	72.7	69.5	64.6	60.1	55.2	52.7
12.5°	92.7	92.3	91.5	89.9	87.8	84.6	80.9	75.6	70.3	63.7	60.5
15°	106.2	105.4	104.6	103.0	100.9	97.2	93.1	87.8	80.9	73.5	69.9
17.5°	119.7	118.9	118.9	117.7	115.2	111.9	107.4	100.9	92.3	83.3	78.4
20°	134.8	134.0	134.0	132.8	130.3	127.1	122.2	115.2	105.8	94.0	88.2
22.5°	152.0	151.2	151.2	149.9	147.5	144.2	138.9	131.1	120.1	107.4	99.7
25°	170.8	169.5	169.5	168.3	165.9	162.6	157.3	148.3	135.6	121.3	112.4
27.5°	189.2	189.2	188.3	188.3	185.9	182.6	176.9	167.1	152.8	135.6	125.0
30°	210.8	210.8	209.6	209.2	206.3	203.5	196.9	186.3	170.8	150.3	137.7
32.5°	232.1	232.1	230.8	230.4	227.2	224.3	217.3	205.9	188.3	164.6	150.8
35°	253.7	252.9	252.1	251.7	248.8	245.1	238.2	225.1	205.5	178.9	163.4
37.5°	274.5	274.5	273.7	272.5	270.1	265.6	257.4	243.5	222.7	193.2	175.3
40°	295.4	295.8	295.0	293.7	289.7	286.0	277.4	262.3	239.4	206.7	187.1
42.5°	317.4	316.2	315.0	313.8	309.7	305.2	296.2	280.3	255.3	219.8	198.1
45°	336.6	335.8	334.6	333.0	329.3	323.6	314.6	297.0	270.5	231.6	208.8
47.5°	354.6	354.2	352.2	350.1	346.9	340.7	330.9	312.9	284.8	243.5	218.2
50°	372.2	372.2	370.1	366.9	363.2	358.3	346.9	328.1	298.2	254.5	227.6
52.5°	388.5	388.1	385.3	381.6	378.3	373.0	362.0	342.4	310.9	264.7	235.7
55°	403.6	403.2	400.0	396.3	392.6	387.3	375.9	355.4	323.2	274.5	243.9
57.5°	417.5	417.1	413.9	409.4	405.7	400.4	388.5	367.3	334.2	283.5	251.7
60°	429.8	429.4	426.1	421.2	417.5	412.2	400.8	378.7	344.8	292.1	258.6
62.5°	442.0	441.2	437.6	432.7	428.2	423.3	411.8	389.8	355.0	300.3	265.1
65°	452.7	451.9	447.8	442.5	438.4	433.1	421.6	399.6	364.0	308.0	271.7
67.5°	462.1	461.3	457.2	451.4	447.4	442.0	431.0	408.5	372.2	315.0	277.4
70°	471.1	469.8	465.7	459.6	455.5	450.2	439.2	416.7	380.4	321.5	283.1
72.5°	478.0	477.2	472.7	466.6	462.1	457.6	446.5	424.1	387.3	327.7	288.4
75°	484.5	483.7	479.2	472.7	468.6	463.7	453.1	430.6	393.0	333.0	292.9
77.5°	489.4	488.6	484.1	477.6	473.5	468.6	458.0	435.9	397.9	337.5	296.6
80°	493.5	492.3	487.8	481.7	477.2	472.3	462.1	440.0	402.4	341.1	300.3
82.5°	496.0	495.2	491.1	484.9	480.5	475.1	464.9	443.3	405.3	344.4	302.7
85°	497.6	496.8	492.7	487.0	482.1	477.2	467.0	445.3	407.7	346.4	304.8
87.5°	498.0	497.6	493.9	488.2	483.3	478.0	467.8	446.5	409.4	348.1	306.0
90°	498.4	497.6	493.9	488.6	483.7	478.4	468.2	447.4	409.8	348.5	306.8
92.5°	497.2	496.8	493.5	488.2	483.7	477.6	467.4	447.0	409.8	348.9	307.2
95°	495.6	494.8	492.3	487.0	482.1	476.4	465.7	445.7	409.0	348.5	306.8
97.5°	492.7	492.3	489.9	484.5	480.0	473.9	463.3	443.3	406.9	346.9	306.0
100°	488.6	488.2	485.8	480.9	476.0	470.2	459.6	439.6	403.6	344.4	304.0
102.5°	484.5	483.7	481.3	476.4	471.9	466.2	455.5	435.9	400.0	341.5	301.9
105°	478.4	477.6	475.6	471.1	466.2	460.4	449.8	430.6	394.7	337.9	298.6
107.5°	471.9	471.1	469.0	464.5	459.6	454.3	444.1	424.9	389.3	333.8	295.4
110°	464.5	462.9	461.3	456.8	452.3	447.4	437.1	418.4	384.0	328.9	291.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	455.9	455.1	453.1	449.0	444.1	439.6	429.4	411.0	376.7	323.6	288.0
115°	446.5	445.7	443.7	439.6	435.5	431.0	421.6	402.4	369.7	318.3	283.9
117.5°	436.7	435.9	433.5	429.8	426.1	422.0	412.2	394.2	362.0	312.1	279.4
120°	426.1	425.3	423.3	420.0	416.3	412.2	402.8	384.9	353.8	306.0	274.5
122.5°	414.7	414.3	412.2	408.5	405.3	402.0	393.0	375.5	345.2	299.1	269.6
125°	402.8	402.0	400.0	396.7	394.2	390.6	381.6	364.4	335.8	291.7	263.9
127.5°	389.8	389.3	387.3	384.4	382.0	378.7	369.7	353.4	325.6	283.9	257.8
130°	375.9	375.9	373.0	371.4	369.3	365.7	357.1	341.1	314.6	275.0	250.8
132.5°	361.6	361.2	359.5	357.1	355.4	351.8	343.6	328.1	302.7	266.0	243.5
135°	346.9	346.4	344.0	342.4	341.1	337.5	328.9	314.2	290.5	256.2	235.3
137.5°	331.3	331.3	328.9	327.7	326.0	321.9	313.8	299.5	277.4	245.5	226.3
140°	314.6	314.6	312.9	310.9	309.7	305.2	297.4	283.5	263.1	233.7	216.5
142.5°	298.2	298.2	296.6	294.6	292.9	288.4	280.7	267.6	248.8	222.3	206.7
145°	282.3	282.3	281.1	279.0	277.0	272.5	264.7	252.1	234.9	210.4	196.9
147.5°	266.4	266.4	265.1	263.1	261.1	256.6	248.8	237.0	221.0	199.4	186.7
150°	250.4	250.4	248.8	246.8	245.1	240.2	232.9	221.4	207.1	187.1	176.1
152.5°	234.1	234.1	232.5	230.8	228.4	223.9	216.5	206.7	192.8	175.3	165.5
155°	217.3	216.5	215.7	214.1	211.6	207.1	200.2	191.2	178.5	163.4	154.8
157.5°	201.0	200.2	199.0	197.7	195.3	191.2	184.7	176.1	165.1	152.0	144.6
160°	183.4	184.3	183.0	181.8	179.4	174.9	169.1	161.8	152.0	140.5	134.4
162.5°	167.1	167.5	166.7	165.5	163.4	158.9	154.0	147.5	138.9	129.1	123.8
165°	151.6	152.0	151.2	149.9	147.9	143.8	139.7	133.6	126.2	118.5	114.0
167.5°	137.7	138.5	136.9	135.6	134.0	130.3	126.7	121.7	115.2	109.1	105.4
170°	124.2	125.4	123.8	123.0	121.3	118.5	114.8	111.1	105.8	100.5	97.2
172.5°	112.4	113.2	111.9	111.1	109.5	107.0	104.6	101.3	97.2	93.1	91.1
175°	101.3	101.3	100.9	99.3	98.9	97.2	95.2	93.1	91.1	88.2	86.6
177.5°	91.1	91.1	91.1	90.7	90.3	89.5	88.7	87.4	86.2	85.0	84.2
180°	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	35.5	33.1	31.0	29.0	27.0	25.7	23.7	23.3	22.9	22.5
5°	36.8	33.5	29.8	27.0	24.1	21.2	19.2	18.0	17.2	17.2
7.5°	42.9	39.2	34.7	30.6	27.4	24.1	21.7	19.6	18.4	18.0
10°	49.8	44.9	39.6	34.7	31.0	27.4	24.1	22.1	21.2	21.2
12.5°	57.6	51.5	44.9	38.8	34.3	29.8	26.6	24.9	24.1	24.1
15°	65.4	57.6	49.8	42.5	36.8	32.3	29.0	27.0	26.1	26.1
17.5°	73.5	64.1	54.3	45.8	39.2	33.9	30.2	27.8	26.6	26.6
20°	82.1	70.3	58.8	48.6	40.9	34.7	30.6	27.8	26.6	26.1
22.5°	91.9	77.2	63.7	51.9	42.9	36.0	31.0	28.2	26.6	26.6
25°	103.0	84.6	68.6	54.7	44.5	36.8	31.5	28.2	27.0	26.6
27.5°	114.4	92.3	73.5	58.0	46.2	38.0	32.3	29.0	27.4	27.4
30°	125.8	100.1	78.0	60.5	47.8	38.8	33.1	29.8	28.2	27.8
32.5°	136.9	107.9	82.1	62.9	49.4	40.0	33.9	30.6	29.0	29.0
35°	146.7	114.0	85.8	64.6	50.7	41.3	35.1	31.5	29.8	29.8
37.5°	156.9	120.1	88.7	66.2	51.5	42.1	36.0	32.7	31.0	31.0
40°	166.3	125.4	91.1	67.4	52.3	42.9	37.2	33.9	32.3	32.3
42.5°	175.3	130.3	93.1	68.6	53.5	44.1	38.4	35.1	33.9	33.9
45°	183.4	134.0	94.8	69.5	54.3	45.3	40.0	36.8	35.5	35.1
47.5°	190.8	137.7	96.0	70.3	55.2	46.2	41.3	38.4	36.8	36.8
50°	197.7	140.9	97.2	70.7	56.0	47.4	42.9	40.0	38.8	38.8
52.5°	204.3	143.8	98.1	71.5	56.8	48.6	44.1	41.7	40.4	40.4
55°	210.4	146.7	99.7	72.3	58.0	50.3	45.8	43.3	42.1	42.1
57.5°	216.1	149.1	100.9	73.1	58.8	51.9	47.8	45.3	44.1	44.1
60°	221.4	151.2	101.7	73.9	60.1	53.5	49.4	47.0	45.8	45.8
62.5°	226.7	153.6	102.5	75.2	61.7	55.2	51.5	49.0	47.8	47.8
65°	231.6	155.7	103.8	76.4	62.9	56.8	53.1	51.1	49.8	49.4
67.5°	235.7	157.3	105.0	77.6	64.6	58.4	55.2	53.1	51.5	51.5
70°	239.8	159.3	106.6	78.8	66.2	60.5	56.8	54.7	53.5	53.1
72.5°	243.9	161.4	107.9	80.1	67.8	62.1	58.8	56.4	55.2	55.2
75°	247.6	163.0	109.5	81.7	69.5	64.1	60.5	58.4	56.8	56.8
77.5°	250.4	164.6	110.7	82.9	71.1	65.4	62.1	60.1	58.4	58.4
80°	252.9	165.9	111.9	84.6	72.7	67.0	63.7	61.3	60.1	59.6
82.5°	255.3	167.1	112.8	85.8	73.9	68.6	65.0	62.9	61.3	60.9
85°	256.6	168.3	114.0	87.0	75.2	69.9	66.2	63.7	62.5	62.1
87.5°	257.8	169.1	114.8	87.8	76.4	70.7	67.4	65.0	63.3	62.9
90°	258.6	170.0	115.6	89.1	77.2	71.9	68.2	65.4	63.7	63.7
92.5°	259.0	170.4	116.4	89.5	78.0	72.3	68.6	65.8	64.1	64.1
95°	259.0	170.8	117.3	90.3	78.8	72.7	69.0	66.2	64.6	64.1
97.5°	258.6	171.2	117.7	91.1	79.3	72.7	69.0	66.2	64.6	64.1
100°	257.4	170.8	118.5	91.5	79.3	72.7	68.6	65.8	64.1	63.7
102.5°	256.2	171.2	119.3	92.3	79.7	72.7	68.2	65.4	63.7	63.3
105°	254.1	171.6	120.1	92.7	79.7	72.3	67.8	64.6	62.9	62.5
107.5°	252.1	171.6	120.9	93.1	79.7	71.9	67.0	63.7	62.1	61.7
110°	250.0	172.4	122.2	94.4	79.7	71.5	66.2	62.9	60.9	60.9



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CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	248.0	172.8	123.8	95.2	80.1	70.7	65.0	61.7	59.6	59.6
115°	245.5	173.6	125.4	96.0	80.1	70.3	64.1	60.5	58.4	58.4
117.5°	243.1	174.5	126.7	97.2	80.5	69.9	63.3	59.2	57.2	57.2
120°	240.2	175.3	128.3	98.5	80.9	69.5	62.5	58.0	56.4	56.0
122.5°	237.4	175.3	129.9	100.5	81.3	69.0	61.7	57.2	55.2	54.7
125°	233.7	175.3	131.1	101.3	81.7	69.0	60.9	56.0	53.9	53.5
127.5°	229.6	174.9	132.4	102.1	81.7	68.6	60.1	55.2	52.7	52.7
130°	224.7	173.6	132.8	103.0	82.1	68.2	59.6	54.3	51.9	51.5
132.5°	219.8	172.0	132.8	103.8	82.5	68.2	58.8	53.5	51.1	50.7
135°	212.9	169.1	132.0	103.8	82.5	68.2	58.4	53.1	50.3	50.3
137.5°	205.9	165.9	130.7	103.0	82.5	67.8	58.4	52.7	49.8	49.4
140°	198.1	161.4	128.7	102.5	82.1	67.8	58.0	52.3	49.4	49.0
142.5°	190.0	156.9	126.7	101.7	82.1	67.8	58.0	52.3	49.4	49.0
145°	181.8	152.0	124.2	100.5	81.3	67.8	58.0	52.3	49.4	49.0
147.5°	173.2	146.7	121.3	98.5	80.9	67.8	58.4	52.3	49.8	49.4
150°	164.2	140.1	117.7	96.4	80.1	67.4	58.4	52.7	50.3	49.8
152.5°	155.2	133.6	113.2	94.0	79.3	67.4	58.8	53.5	51.1	50.7
155°	145.4	127.1	109.1	91.9	78.4	67.8	60.1	54.7	52.7	52.3
157.5°	136.5	120.5	105.0	89.9	78.0	68.2	61.3	56.4	54.3	53.9
160°	127.5	114.0	100.5	87.8	77.2	68.6	62.1	58.0	56.0	56.0
162.5°	118.5	107.0	95.2	85.0	76.0	68.6	63.3	59.6	57.6	57.6
165°	109.5	99.7	90.7	82.1	74.8	69.0	64.1	61.3	59.6	59.2
167.5°	101.7	94.0	86.6	80.1	73.9	69.5	65.4	62.9	61.7	61.7
170°	94.4	89.1	83.3	78.4	73.9	70.3	67.0	65.4	64.1	64.1
172.5°	89.1	85.4	81.3	77.6	74.4	71.5	69.5	68.2	67.4	67.0
175°	85.4	82.9	80.1	78.0	76.0	73.9	72.7	72.3	71.9	71.9
177.5°	83.8	82.1	80.9	79.7	78.8	78.0	77.6	77.2	77.2	76.8
180°	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8

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