

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: P256771

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256771
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-A3-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: 3015.8 lumens
Efficiency: N/A
Efficacy: 140.9 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): 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



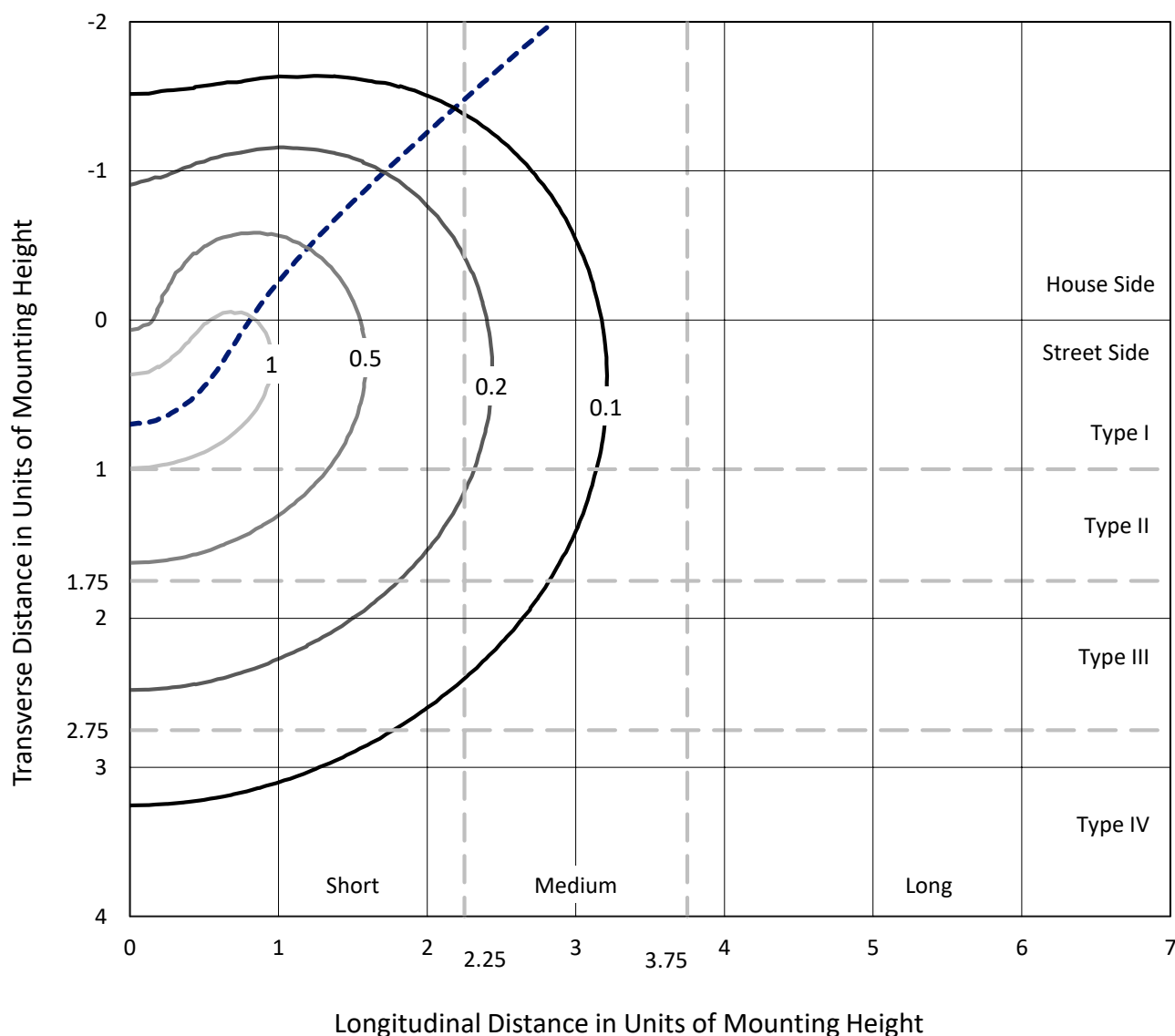
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

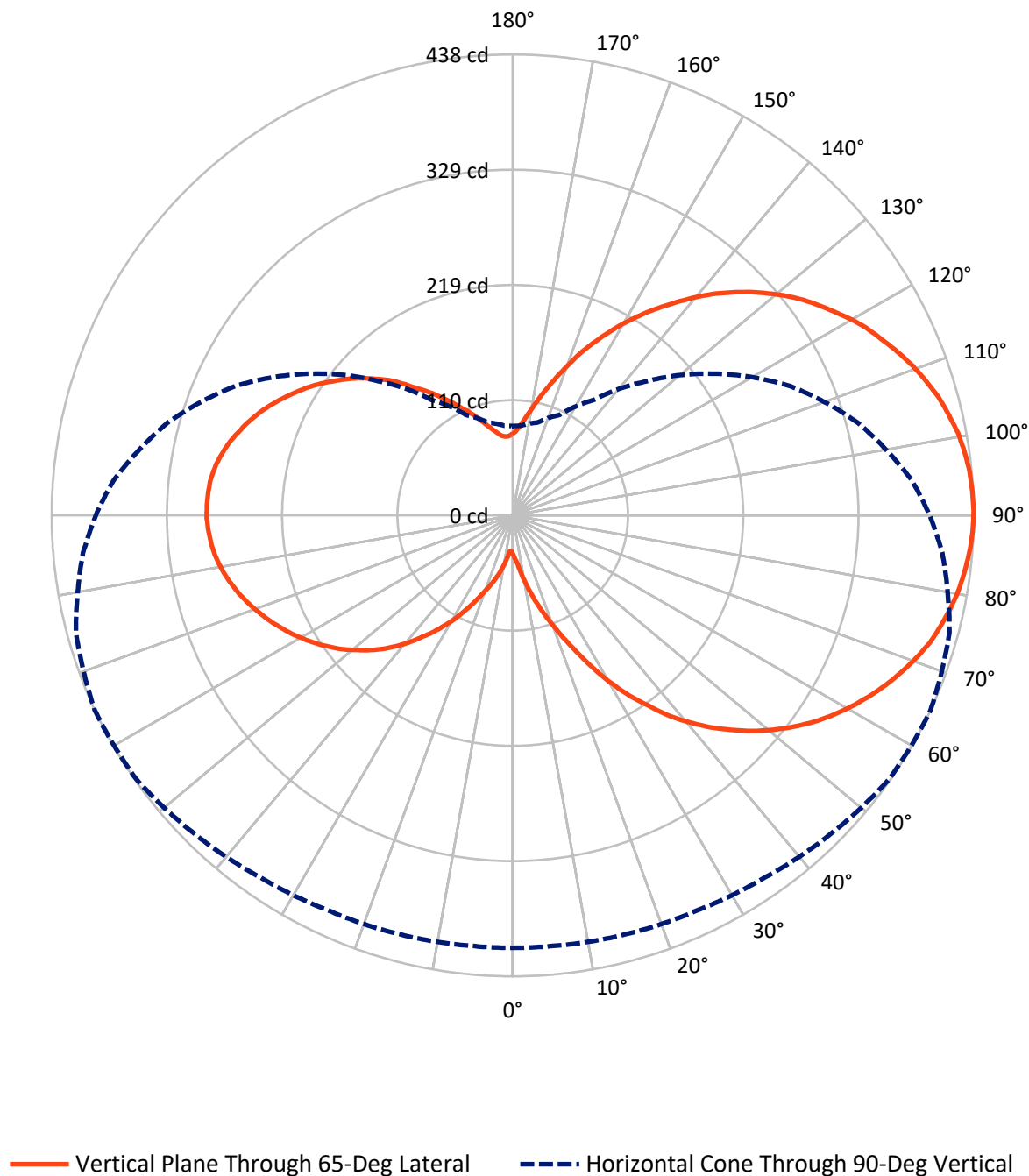


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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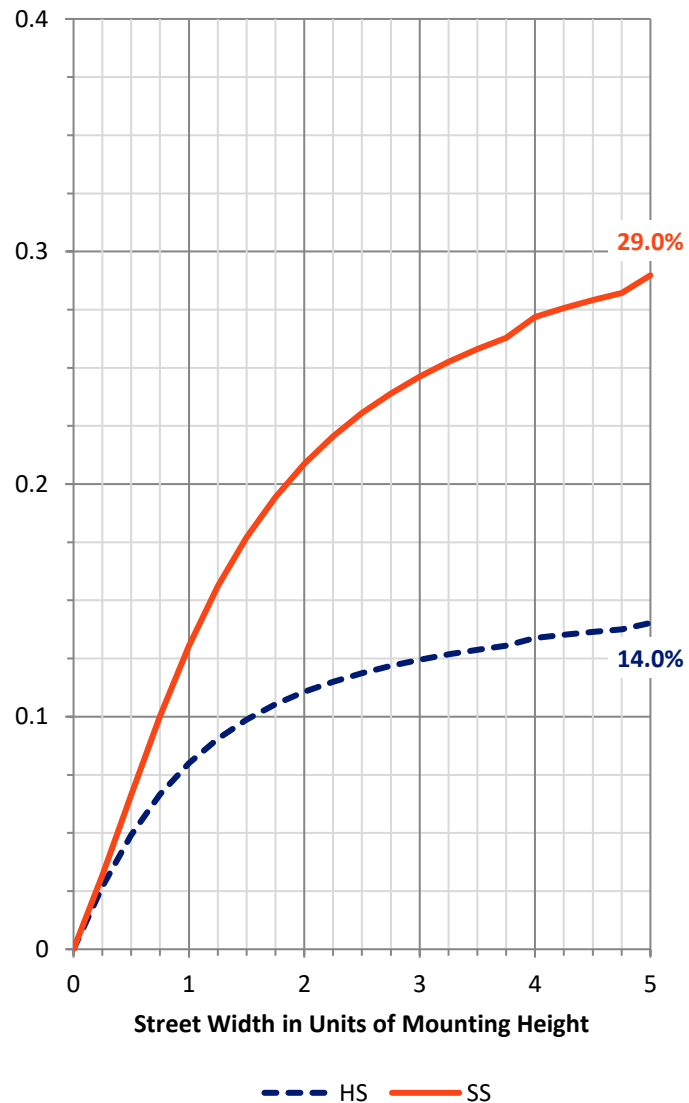
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.1	496.9	969.9
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1011.4	1034.4	2045.8
	% Fixture	33.5	34.3	67.8
Total	Lumens	1484.5	1531.3	3015.8
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	20.5	0.7
20°-30°	51.7	1.7
30°-40°	100.9	3.3
40°-50°	160.0	5.3
50°-60°	219.6	7.3
60°-70°	273.1	9.1
70°-80°	315.3	10.5
80°-90°	339.1	11.2
90°-100°	340.4	11.3
100°-110°	317.5	10.5
110°-120°	275.5	9.1
120°-130°	222.8	7.4
130°-140°	165.1	5.5
140°-150°	109.3	3.6
150°-160°	63.3	2.1
160°-170°	29.4	1.0
170°-180°	7.9	0.3
0°-90°	1484.5	49.2
0°-180°	3015.8	100.0

Coefficient of Utilization



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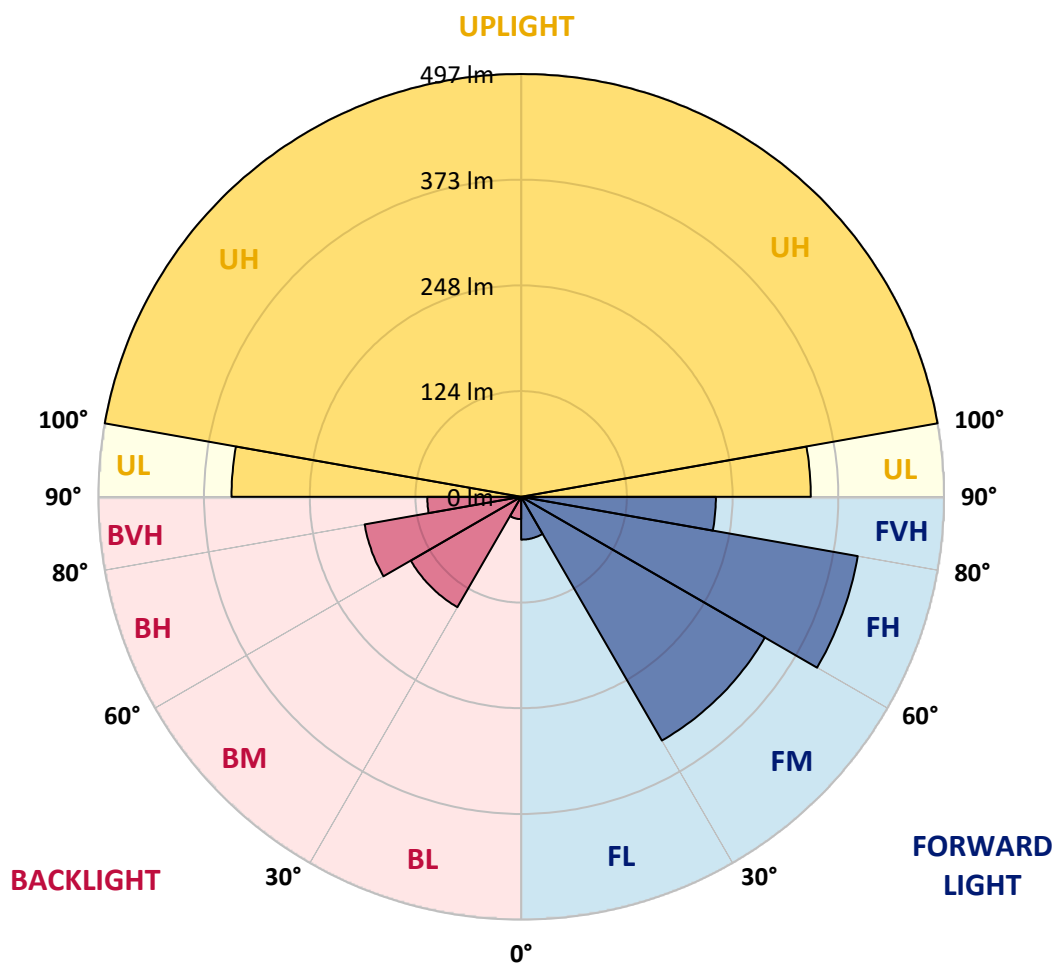
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.3	1.7			
FM	(30°-60°)	330.7	11.0			
FH	(60°-80°)	401.6	13.3			G0/660
FVH	(80°-90°)	228.8	7.6			G3/500
BL	(0°-30°)	26.2	0.9	B0/110		
BM	(30°-60°)	149.7	5.0	B0/220		
BH	(60°-80°)	186.8	6.2	B1/500		G1/500
BVH	(80°-90°)	110.3	3.7			G2/225
UL	(90°-100°)	340.4	11.3		U3/500	
UH	(100°-180°)	496.9	16.5		U3/500	

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°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
2.5°	45.0	43.8	43.8	43.1	43.1	42.5	41.8	41.2	39.9	38.6	38.0
5°	54.0	53.4	53.4	52.1	50.8	49.5	47.6	45.7	43.8	41.2	40.5
7.5°	64.3	63.7	63.7	61.8	60.5	58.6	56.6	54.0	51.5	48.9	47.6
10°	74.6	74.0	74.0	72.7	71.4	68.8	66.3	64.3	60.5	57.3	56.0
12.5°	85.6	84.3	84.3	83.0	82.4	80.4	77.9	75.3	70.8	66.9	65.0
15°	95.9	95.2	95.2	94.6	93.9	92.0	89.4	86.9	82.4	77.9	75.3
17.5°	107.5	106.8	106.2	106.2	106.2	104.2	102.3	99.7	94.6	88.8	86.2
20°	120.3	119.0	119.0	119.7	119.7	118.4	116.5	113.2	108.1	101.7	97.8
22.5°	133.8	133.2	133.8	133.8	134.5	133.8	131.9	128.7	123.5	115.8	111.3
25°	148.6	148.0	149.3	149.9	151.2	151.8	149.9	146.1	140.3	131.3	126.1
27.5°	166.6	166.0	166.6	169.2	169.9	170.5	169.2	166.0	158.9	148.6	142.2
30°	182.7	182.7	184.0	185.9	187.9	189.2	187.9	185.3	177.6	166.0	158.9
32.5°	199.5	200.1	200.7	203.3	205.9	207.8	206.5	204.6	195.6	184.7	175.7
35°	217.5	218.1	218.1	221.3	224.6	225.8	226.5	222.0	214.9	201.4	191.7
37.5°	235.5	234.8	235.5	238.7	241.9	243.9	244.5	241.9	232.9	218.1	208.5
40°	250.9	250.9	252.2	255.4	258.7	261.2	261.9	258.7	250.3	234.2	223.9
42.5°	267.0	267.0	268.3	270.9	274.7	277.3	278.6	275.4	265.7	250.3	238.7
45°	281.8	281.8	283.1	286.3	290.2	292.8	294.7	290.8	281.2	265.1	254.2
47.5°	296.0	296.6	297.3	299.8	304.3	306.9	309.5	306.3	296.0	278.0	267.0
50°	309.5	310.1	310.8	314.0	317.2	320.4	323.6	320.4	310.8	292.1	279.9
52.5°	321.7	322.4	323.6	324.9	329.4	333.3	336.5	333.9	323.0	304.3	291.5
55°	334.6	334.6	335.2	336.5	341.0	345.5	349.4	346.8	335.9	316.6	303.7
57.5°	345.5	345.5	346.2	347.4	351.3	355.8	360.3	358.4	347.4	327.5	314.6
60°	355.2	355.2	355.8	357.1	361.0	366.7	371.3	369.3	358.4	337.8	324.9
62.5°	364.8	364.8	365.5	366.7	370.6	376.4	381.5	379.6	368.7	348.1	334.6
65°	373.2	373.2	373.2	374.5	379.0	385.4	390.6	389.3	377.7	357.7	343.6
67.5°	380.9	380.9	380.9	381.5	386.7	393.1	399.6	398.3	387.3	366.7	351.9
70°	388.6	387.3	388.6	388.6	393.8	400.8	407.3	406.6	395.7	375.1	360.3
72.5°	394.4	393.8	394.4	395.7	400.2	407.3	414.4	414.4	403.4	382.2	368.0
75°	398.9	398.9	398.9	400.2	405.4	413.1	420.2	420.2	409.9	388.6	374.5
77.5°	403.4	403.4	404.1	404.7	409.9	417.6	425.9	425.3	415.6	394.4	380.9
80°	406.6	406.0	406.6	408.6	413.1	421.4	429.8	429.8	420.2	399.6	385.4
82.5°	409.2	408.6	409.2	411.1	415.6	424.7	433.0	433.0	424.0	404.1	389.9
85°	410.5	410.5	411.1	413.1	417.6	426.6	435.0	435.6	427.2	407.3	393.1
87.5°	411.1	411.1	411.8	414.4	418.9	427.2	436.2	437.5	429.2	408.6	395.1
90°	411.1	411.1	412.4	414.4	419.5	427.9	436.9	438.2	429.8	409.9	396.3
92.5°	411.1	410.5	412.4	414.4	418.9	427.2	436.2	437.5	429.8	409.9	396.3
95°	409.9	409.2	411.1	413.1	417.6	425.9	434.3	436.2	428.5	409.2	395.1
97.5°	407.3	407.3	408.6	411.1	415.6	423.4	432.4	433.7	425.9	406.6	393.1
100°	404.7	404.7	406.0	407.9	412.4	420.8	428.5	430.4	421.4	403.4	389.3
102.5°	401.5	401.5	402.1	404.1	409.2	416.9	424.0	425.3	417.6	398.3	384.8
105°	397.0	396.3	397.6	399.6	404.1	411.8	418.9	420.2	411.1	392.5	379.0
107.5°	391.2	391.2	391.2	393.8	398.3	406.0	412.4	413.1	404.1	385.4	371.3
110°	385.4	385.4	385.4	387.3	392.5	399.6	406.0	406.0	396.3	377.7	364.8



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	379.0	378.3	378.3	380.3	385.4	392.5	398.9	397.6	388.0	369.3	356.5
115°	371.3	371.3	370.6	372.5	378.3	384.8	390.6	388.6	379.6	360.3	347.4
117.5°	363.5	362.9	362.9	364.8	370.0	377.0	382.2	380.3	370.0	351.3	338.4
120°	355.2	354.5	353.9	355.8	361.6	368.0	372.5	370.0	359.0	341.0	328.8
122.5°	345.5	344.9	344.9	346.8	352.6	359.0	362.9	359.0	349.4	330.7	318.5
125°	335.2	335.9	335.2	337.2	342.3	349.4	352.6	348.7	338.4	319.8	307.6
127.5°	324.9	324.9	324.3	326.9	332.0	338.4	341.7	337.2	326.9	308.2	296.6
130°	314.0	314.0	313.3	315.9	321.1	326.9	328.8	324.3	314.0	296.0	284.4
132.5°	301.8	302.4	302.4	305.0	309.5	314.0	316.6	311.4	301.1	283.7	272.2
135°	290.2	289.5	290.2	292.1	297.3	301.1	301.8	297.3	287.6	270.2	259.3
137.5°	276.7	277.3	277.3	279.2	283.7	287.6	288.3	283.1	273.5	256.7	245.8
140°	263.8	263.8	265.1	266.4	269.6	272.8	272.8	267.7	258.7	241.9	231.6
142.5°	250.3	250.3	250.9	253.5	256.1	258.0	257.4	252.2	243.2	227.1	218.1
145°	237.4	237.4	238.1	240.0	241.9	243.2	241.9	237.4	228.4	212.3	204.0
147.5°	225.2	224.6	225.8	227.1	228.4	229.1	227.8	222.6	213.0	199.5	190.5
150°	212.3	212.3	212.3	214.3	214.9	214.9	213.0	207.8	198.8	185.3	177.6
152.5°	199.5	198.8	199.5	200.1	200.7	200.1	197.5	192.4	184.0	171.8	164.7
155°	185.9	185.9	186.6	186.6	186.6	185.9	183.4	177.6	169.9	158.9	150.6
157.5°	173.1	173.1	173.1	173.1	173.1	171.8	168.6	163.4	154.4	144.8	139.6
160°	160.2	160.2	159.6	158.9	158.3	155.7	153.1	148.0	141.6	133.2	128.7
162.5°	146.1	145.4	145.4	144.8	144.1	142.2	139.0	134.5	128.7	121.6	117.7
165°	133.2	132.5	131.9	131.9	130.6	128.7	126.1	122.2	117.1	110.7	107.5
167.5°	121.6	121.0	120.3	120.3	119.0	116.5	113.9	110.7	106.2	101.0	98.4
170°	111.3	110.7	110.0	109.4	108.1	106.2	103.6	100.4	97.2	93.3	90.7
172.5°	101.0	100.4	99.7	99.7	98.4	96.5	94.6	92.0	89.4	86.2	84.9
175°	91.4	92.0	91.4	90.7	90.1	88.1	86.9	84.9	83.6	81.7	80.4
177.5°	83.6	84.3	84.3	83.6	83.0	81.7	81.1	79.8	79.1	77.9	77.2
180°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
2.5°	37.3	35.4	34.1	32.2	30.2	29.0	27.7	26.4	25.7	25.7
5°	38.6	36.7	34.1	31.5	29.6	27.0	25.7	24.4	23.8	23.8
7.5°	45.7	43.1	39.9	36.7	34.1	30.9	29.0	27.7	27.0	27.0
10°	53.4	50.2	46.3	42.5	39.2	36.0	33.5	31.5	30.9	30.9
12.5°	62.4	57.9	53.4	48.3	44.4	39.9	37.3	35.4	34.7	34.1
15°	72.1	66.3	60.5	54.0	48.9	44.4	40.5	38.0	37.3	37.3
17.5°	82.4	74.6	67.6	59.8	53.4	47.0	43.1	39.9	38.6	38.6
20°	93.3	84.3	74.6	65.6	57.3	50.2	44.4	41.2	39.2	39.2
22.5°	106.2	95.2	83.0	72.1	62.4	53.4	46.3	41.8	39.9	39.2
25°	119.7	106.2	92.7	79.8	67.6	56.6	48.9	43.8	40.5	40.5
27.5°	134.5	119.0	102.9	87.5	72.7	60.5	50.8	45.0	41.8	41.2
30°	150.6	132.5	113.9	95.2	78.5	64.3	53.4	46.3	43.1	42.5
32.5°	166.0	145.4	124.2	103.6	84.3	67.6	56.0	48.3	44.4	43.8
35°	182.7	159.6	135.1	112.0	90.1	71.4	57.9	49.5	45.7	45.0
37.5°	198.2	173.1	145.4	119.7	95.9	75.3	60.5	51.5	47.0	46.3
40°	213.0	186.6	157.0	128.0	101.7	79.1	63.1	53.4	48.3	47.6
42.5°	227.1	199.5	167.9	135.8	106.8	83.0	65.6	55.3	50.2	49.5
45°	241.3	211.0	178.2	143.5	112.6	86.2	68.2	56.6	52.1	50.8
47.5°	254.2	222.6	187.9	151.2	117.7	90.1	70.1	58.6	53.4	52.8
50°	266.4	234.2	196.9	158.9	122.9	93.3	72.7	60.5	55.3	54.7
52.5°	278.0	244.5	206.5	166.6	127.4	96.5	75.3	62.4	57.3	56.6
55°	288.9	254.8	214.9	173.1	132.5	99.7	77.2	65.0	59.2	58.6
57.5°	300.5	264.4	223.3	180.2	137.0	102.9	79.8	66.9	61.1	60.5
60°	309.5	273.5	231.0	185.9	141.6	106.2	82.4	68.8	63.1	62.4
62.5°	319.8	281.8	238.7	192.4	146.1	109.4	84.9	71.4	65.6	65.0
65°	328.1	290.2	245.8	198.2	149.9	112.0	86.9	73.3	67.6	66.9
67.5°	337.2	298.5	252.9	204.0	154.4	115.2	89.4	75.9	70.1	69.5
70°	344.9	305.6	259.3	209.1	158.9	118.4	92.0	77.9	72.7	71.4
72.5°	351.9	313.3	265.7	214.3	164.1	121.0	94.6	80.4	74.6	74.0
75°	358.4	319.1	271.5	218.8	167.3	123.5	96.5	82.4	77.2	75.9
77.5°	364.8	324.9	276.7	223.3	170.5	126.8	99.1	84.9	79.1	78.5
80°	370.0	329.4	281.2	226.5	173.1	128.7	101.0	86.9	81.1	80.4
82.5°	373.8	333.3	285.0	229.7	175.7	130.6	102.3	88.1	82.4	81.7
85°	377.0	336.5	287.6	232.3	178.2	131.9	104.2	89.4	83.6	83.0
87.5°	379.6	338.4	289.5	234.2	178.9	133.2	104.9	90.7	84.9	84.3
90°	380.9	339.7	290.8	234.8	180.2	133.8	105.5	91.4	85.6	84.9
92.5°	380.3	339.7	290.8	235.5	180.8	134.5	106.2	91.4	85.6	84.9
95°	379.6	339.1	290.2	234.8	180.2	134.5	106.2	91.4	85.6	84.9
97.5°	377.0	337.2	288.9	233.6	179.5	133.8	104.9	90.7	84.9	84.3
100°	373.8	333.3	286.3	231.6	178.2	132.5	104.2	89.4	83.6	83.0
102.5°	368.7	329.4	282.5	229.1	175.7	130.6	102.3	88.1	82.4	81.7
105°	362.9	324.3	278.0	225.2	173.1	128.7	100.4	86.2	80.4	79.8
107.5°	357.1	317.2	272.2	220.7	169.9	126.1	98.4	84.3	78.5	77.9
110°	349.4	310.8	266.4	216.2	166.0	122.9	95.9	81.7	76.6	75.3



REPORT NUMBER: P256771

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	341.0	303.7	259.9	210.4	162.1	120.3	93.9	79.8	74.0	73.3
115°	332.6	295.3	252.9	205.3	156.4	117.1	91.4	77.9	72.1	71.4
117.5°	323.6	287.0	245.1	198.8	151.8	113.9	88.8	75.3	69.5	68.8
120°	314.0	278.6	237.4	192.4	147.3	110.7	86.2	73.3	67.6	66.9
122.5°	304.3	269.6	229.7	186.6	142.8	107.5	84.3	70.8	65.6	64.3
125°	294.0	259.9	221.3	179.5	138.3	104.9	81.7	68.8	63.7	63.1
127.5°	283.1	249.6	212.3	172.4	133.2	101.7	79.8	67.6	61.8	61.1
130°	271.5	240.0	204.0	166.0	128.7	98.4	77.9	65.6	59.8	59.2
132.5°	259.3	229.1	195.0	157.6	123.5	95.2	75.3	63.7	58.6	57.9
135°	246.4	218.1	185.3	149.9	118.4	92.0	73.3	62.4	57.3	56.6
137.5°	234.2	206.5	176.3	142.8	113.9	89.4	72.1	61.1	56.6	56.0
140°	220.0	194.3	166.0	135.8	108.7	86.2	70.1	59.8	55.3	54.7
142.5°	206.5	182.7	155.1	128.7	104.2	83.6	68.8	59.2	54.7	54.0
145°	193.7	171.1	146.1	122.2	99.7	81.1	66.9	58.6	54.7	54.0
147.5°	181.4	160.9	137.7	115.8	95.2	78.5	65.6	57.9	54.0	53.4
150°	169.2	148.6	128.7	109.4	91.4	75.9	65.0	57.3	54.0	53.4
152.5°	155.1	138.3	121.0	103.6	87.5	74.0	63.7	57.3	54.0	54.0
155°	144.1	128.7	113.2	97.8	84.3	72.7	63.7	57.9	54.7	54.7
157.5°	133.2	120.3	106.8	93.3	81.7	71.4	63.7	58.6	56.0	56.0
160°	122.9	112.0	100.4	89.4	79.1	70.8	63.7	59.2	57.3	56.6
162.5°	113.2	103.6	93.9	84.9	76.6	69.5	63.7	59.8	57.9	57.9
165°	103.6	95.9	88.1	81.1	74.6	68.2	63.7	61.1	59.2	59.2
167.5°	95.2	89.4	83.6	77.9	72.7	68.2	64.3	61.8	61.1	60.5
170°	88.8	84.3	79.8	75.3	71.4	67.6	65.0	63.7	62.4	62.4
172.5°	83.0	79.8	76.6	73.3	70.8	68.2	66.9	65.6	65.0	65.0
175°	79.1	77.2	75.3	73.3	72.1	70.1	69.5	68.8	68.2	68.2
177.5°	77.2	75.9	75.3	74.6	74.0	73.3	73.3	72.7	72.7	72.7
180°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2

(END OF REPORT)