

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: P256772

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256772
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-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (60) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.1 lumens
Efficiency: N/A
Efficacy: 145.9 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



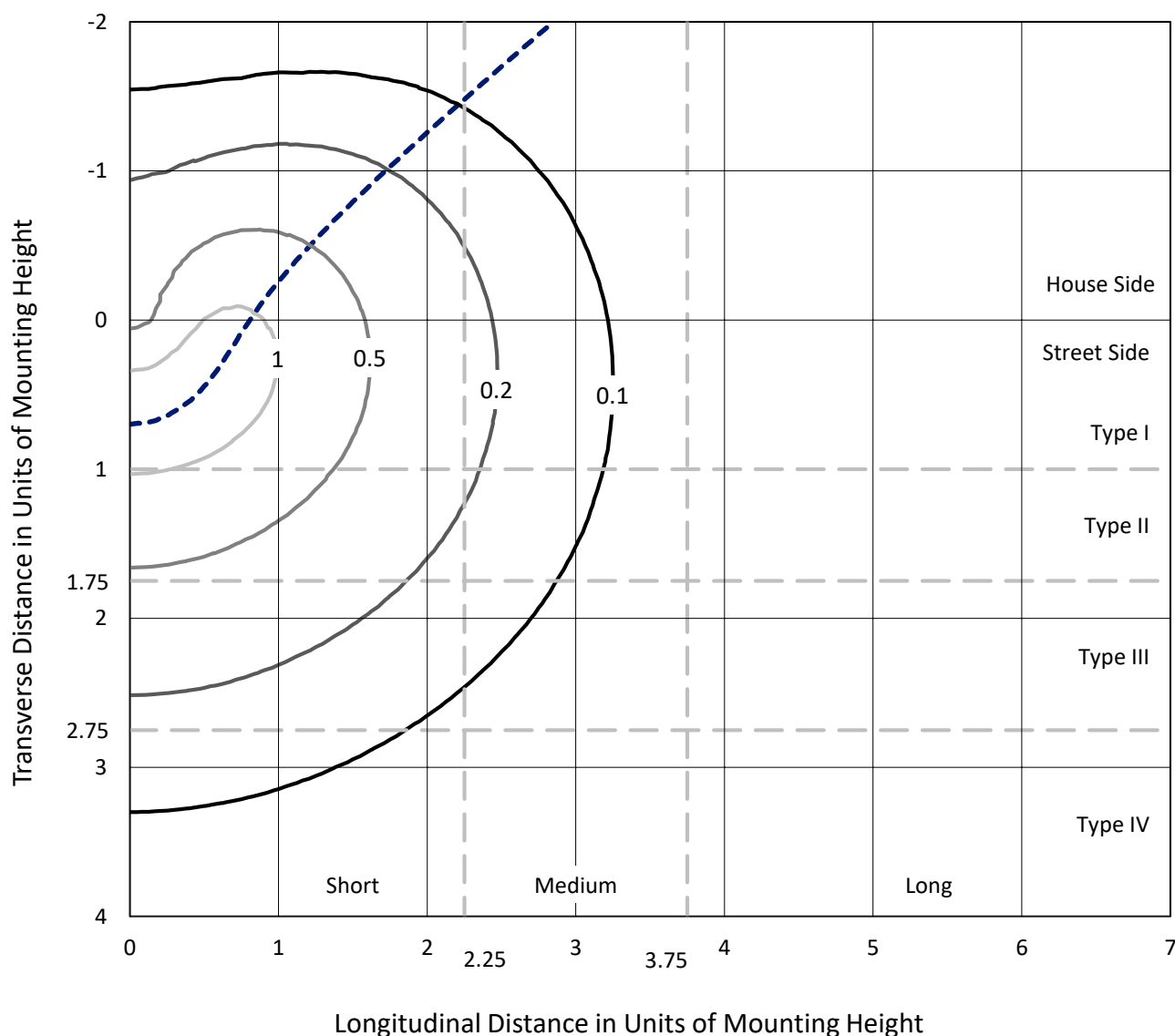
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

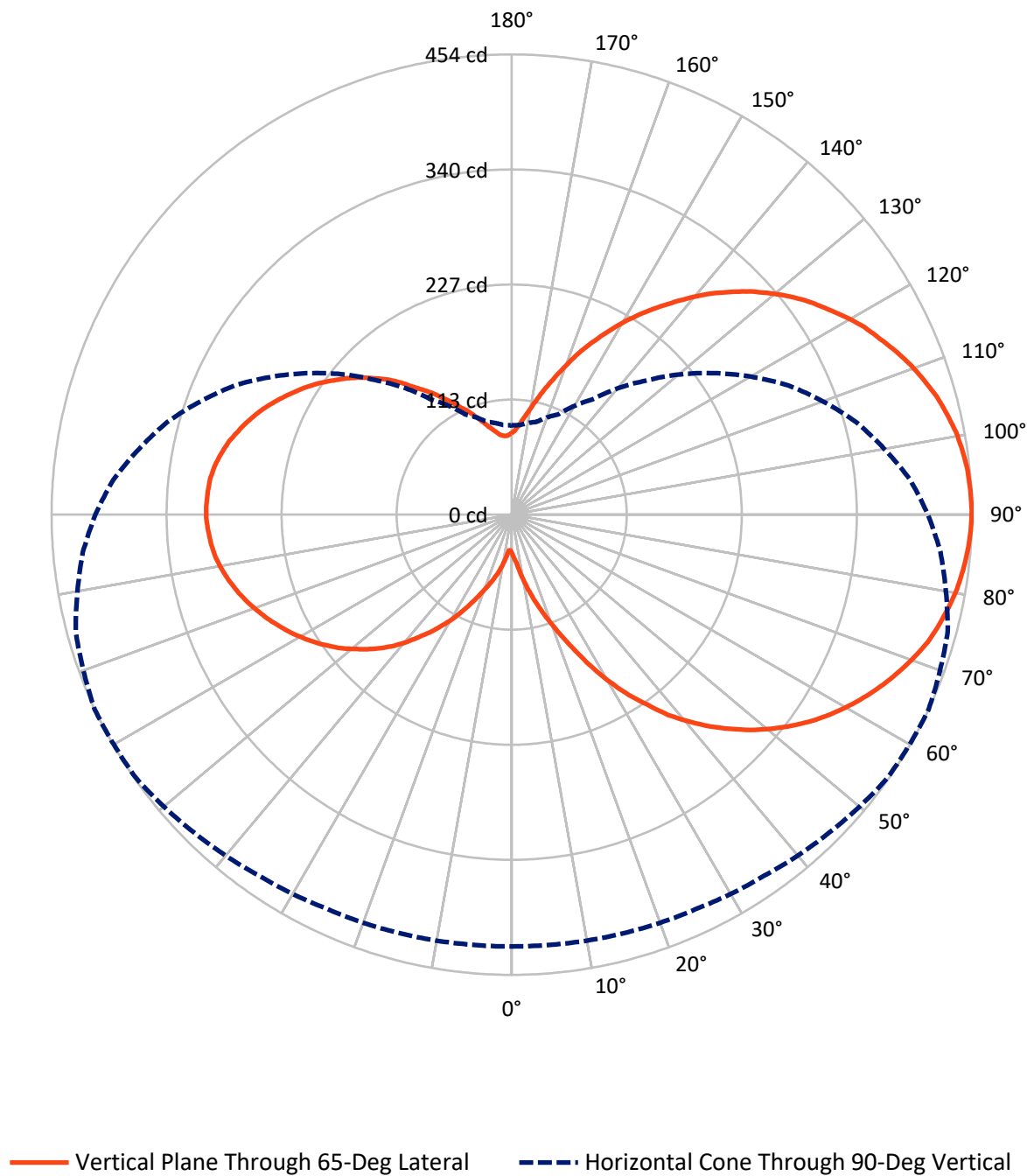


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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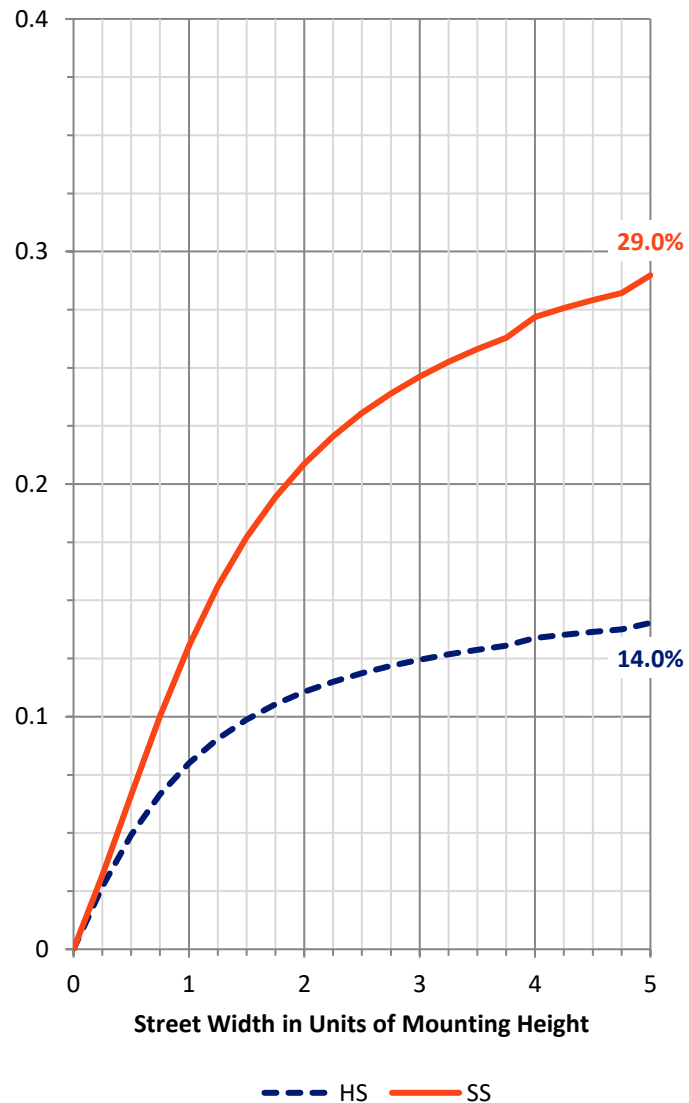
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.8	514.4	1004.1
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1047.1	1070.9	2118.0
	% Fixture	33.5	34.3	67.8
Total	Lumens	1536.8	1585.3	3122.1
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	21.3	0.7
20°-30°	53.6	1.7
30°-40°	104.4	3.3
40°-50°	165.6	5.3
50°-60°	227.3	7.3
60°-70°	282.7	9.1
70°-80°	326.4	10.5
80°-90°	351.1	11.2
90°-100°	352.4	11.3
100°-110°	328.7	10.5
110°-120°	285.2	9.1
120°-130°	230.7	7.4
130°-140°	170.9	5.5
140°-150°	113.2	3.6
150°-160°	65.5	2.1
160°-170°	30.4	1.0
170°-180°	8.2	0.3
0°-90°	1536.8	49.2
0°-180°	3122.1	100.0

Coefficient of Utilization



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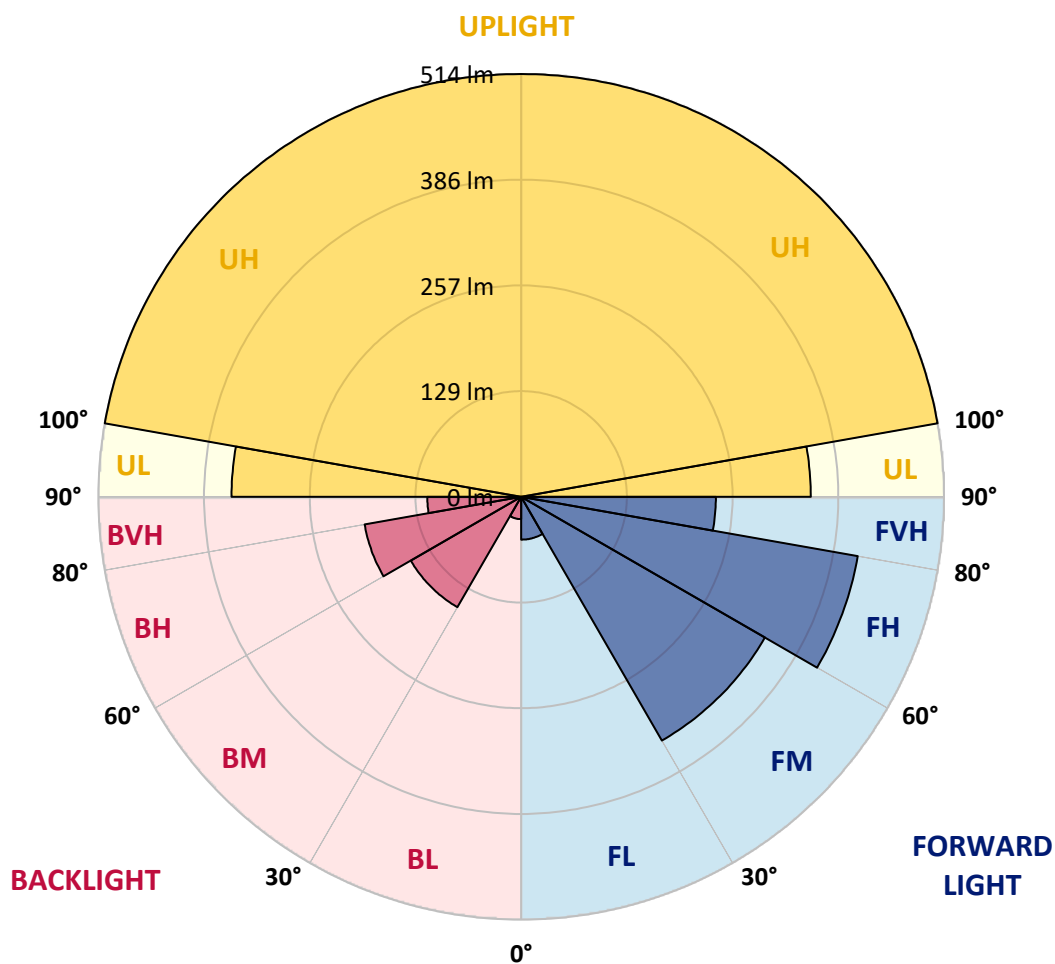
CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	52.1	1.7			
FM	(30°-60°)	342.4	11.0			
FH	(60°-80°)	415.8	13.3			G0/660
FVH	(80°-90°)	236.8	7.6			G3/500
BL	(0°-30°)	27.1	0.9	B0/110		
BM	(30°-60°)	155.0	5.0	B0/220		
BH	(60°-80°)	193.4	6.2	B1/500		G1/500
BVH	(80°-90°)	114.2	3.7			G2/225
UL	(90°-100°)	352.4	11.3		U3/500	
UH	(100°-180°)	514.4	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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	46.6	45.3	45.3	44.6	44.6	44.0	43.3	42.6	41.3	40.0	39.3
5°	56.0	55.3	55.3	54.0	52.6	51.3	49.3	47.3	45.3	42.6	42.0
7.5°	66.6	65.9	65.9	63.9	62.6	60.6	58.6	56.0	53.3	50.6	49.3
10°	77.3	76.6	76.6	75.3	73.9	71.3	68.6	66.6	62.6	59.3	58.0
12.5°	88.6	87.3	87.3	85.9	85.3	83.3	80.6	77.9	73.3	69.3	67.3
15°	99.2	98.6	98.6	97.9	97.3	95.3	92.6	89.9	85.3	80.6	77.9
17.5°	111.2	110.6	109.9	109.9	109.9	107.9	105.9	103.2	97.9	91.9	89.3
20°	124.6	123.2	123.2	123.9	123.9	122.6	120.6	117.2	111.9	105.2	101.2
22.5°	138.5	137.9	138.5	138.5	139.2	138.5	136.5	133.2	127.9	119.9	115.2
25°	153.9	153.2	154.5	155.2	156.5	157.2	155.2	151.2	145.2	135.9	130.6
27.5°	172.5	171.9	172.5	175.2	175.8	176.5	175.2	171.9	164.5	153.9	147.2
30°	189.2	189.2	190.5	192.5	194.5	195.8	194.5	191.8	183.8	171.9	164.5
32.5°	206.5	207.2	207.8	210.5	213.2	215.1	213.8	211.8	202.5	191.2	181.8
35°	225.1	225.8	225.8	229.1	232.5	233.8	234.5	229.8	222.5	208.5	198.5
37.5°	243.8	243.1	243.8	247.1	250.5	252.5	253.1	250.5	241.1	225.8	215.8
40°	259.8	259.8	261.1	264.4	267.8	270.4	271.1	267.8	259.1	242.5	231.8
42.5°	276.4	276.4	277.8	280.4	284.4	287.1	288.4	285.1	275.1	259.1	247.1
45°	291.8	291.8	293.1	296.4	300.4	303.1	305.1	301.1	291.1	274.4	263.1
47.5°	306.4	307.1	307.7	310.4	315.1	317.7	320.4	317.1	306.4	287.8	276.4
50°	320.4	321.1	321.7	325.1	328.4	331.7	335.0	331.7	321.7	302.4	289.8
52.5°	333.0	333.7	335.0	336.4	341.0	345.0	348.4	345.7	334.4	315.1	301.7
55°	346.4	346.4	347.0	348.4	353.0	357.7	361.7	359.0	347.7	327.7	314.4
57.5°	357.7	357.7	358.4	359.7	363.7	368.4	373.0	371.0	359.7	339.0	325.7
60°	367.7	367.7	368.4	369.7	373.7	379.7	384.3	382.3	371.0	349.7	336.4
62.5°	377.7	377.7	378.3	379.7	383.7	389.7	395.0	393.0	381.7	360.4	346.4
65°	386.3	386.3	386.3	387.7	392.3	399.0	404.3	403.0	391.0	370.4	355.7
67.5°	394.3	394.3	394.3	395.0	400.3	407.0	413.6	412.3	401.0	379.7	364.4
70°	402.3	401.0	402.3	402.3	407.7	415.0	421.6	421.0	409.6	388.3	373.0
72.5°	408.3	407.7	408.3	409.6	414.3	421.6	429.0	429.0	417.6	395.7	381.0
75°	413.0	413.0	413.0	414.3	419.6	427.6	435.0	435.0	424.3	402.3	387.7
77.5°	417.6	417.6	418.3	419.0	424.3	432.3	441.0	440.3	430.3	408.3	394.3
80°	421.0	420.3	421.0	423.0	427.6	436.3	445.0	445.0	435.0	413.6	399.0
82.5°	423.6	423.0	423.6	425.6	430.3	439.6	448.3	448.3	439.0	418.3	403.7
85°	425.0	425.0	425.6	427.6	432.3	441.6	450.3	450.9	442.3	421.6	407.0
87.5°	425.6	425.6	426.3	429.0	433.6	442.3	451.6	452.9	444.3	423.0	409.0
90°	425.6	425.6	427.0	429.0	434.3	443.0	452.3	453.6	445.0	424.3	410.3
92.5°	425.6	425.0	427.0	429.0	433.6	442.3	451.6	452.9	445.0	424.3	410.3
95°	424.3	423.6	425.6	427.6	432.3	441.0	449.6	451.6	443.6	423.6	409.0
97.5°	421.6	421.6	423.0	425.6	430.3	438.3	447.6	448.9	441.0	421.0	407.0
100°	419.0	419.0	420.3	422.3	427.0	435.6	443.6	445.6	436.3	417.6	403.0
102.5°	415.6	415.6	416.3	418.3	423.6	431.6	439.0	440.3	432.3	412.3	398.3
105°	411.0	410.3	411.6	413.6	418.3	426.3	433.6	435.0	425.6	406.3	392.3
107.5°	405.0	405.0	405.0	407.7	412.3	420.3	427.0	427.6	418.3	399.0	384.3
110°	399.0	399.0	399.0	401.0	406.3	413.6	420.3	420.3	410.3	391.0	377.7



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	392.3	391.7	391.7	393.7	399.0	406.3	413.0	411.6	401.7	382.3	369.0
115°	384.3	384.3	383.7	385.7	391.7	398.3	404.3	402.3	393.0	373.0	359.7
117.5°	376.3	375.7	375.7	377.7	383.0	390.3	395.7	393.7	383.0	363.7	350.4
120°	367.7	367.0	366.4	368.4	374.3	381.0	385.7	383.0	371.7	353.0	340.4
122.5°	357.7	357.0	357.0	359.0	365.0	371.7	375.7	371.7	361.7	342.4	329.7
125°	347.0	347.7	347.0	349.0	354.4	361.7	365.0	361.0	350.4	331.1	318.4
127.5°	336.4	336.4	335.7	338.4	343.7	350.4	353.7	349.0	338.4	319.1	307.1
130°	325.1	325.1	324.4	327.1	332.4	338.4	340.4	335.7	325.1	306.4	294.4
132.5°	312.4	313.1	313.1	315.7	320.4	325.1	327.7	322.4	311.7	293.7	281.8
135°	300.4	299.7	300.4	302.4	307.7	311.7	312.4	307.7	297.7	279.8	268.4
137.5°	286.4	287.1	287.1	289.1	293.7	297.7	298.4	293.1	283.1	265.8	254.4
140°	273.1	273.1	274.4	275.8	279.1	282.4	282.4	277.1	267.8	250.5	239.8
142.5°	259.1	259.1	259.8	262.4	265.1	267.1	266.4	261.1	251.8	235.1	225.8
145°	245.8	245.8	246.5	248.5	250.5	251.8	250.5	245.8	236.5	219.8	211.2
147.5°	233.1	232.5	233.8	235.1	236.5	237.1	235.8	230.5	220.5	206.5	197.2
150°	219.8	219.8	219.8	221.8	222.5	222.5	220.5	215.1	205.8	191.8	183.8
152.5°	206.5	205.8	206.5	207.2	207.8	207.2	204.5	199.2	190.5	177.8	170.5
155°	192.5	192.5	193.2	193.2	193.2	192.5	189.8	183.8	175.8	164.5	155.9
157.5°	179.2	179.2	179.2	179.2	179.2	177.8	174.5	169.2	159.9	149.9	144.5
160°	165.9	165.9	165.2	164.5	163.9	161.2	158.5	153.2	146.5	137.9	133.2
162.5°	151.2	150.5	150.5	149.9	149.2	147.2	143.9	139.2	133.2	125.9	121.9
165°	137.9	137.2	136.5	136.5	135.2	133.2	130.6	126.6	121.2	114.6	111.2
167.5°	125.9	125.2	124.6	124.6	123.2	120.6	117.9	114.6	109.9	104.6	101.9
170°	115.2	114.6	113.9	113.2	111.9	109.9	107.2	103.9	100.6	96.6	93.9
172.5°	104.6	103.9	103.2	103.2	101.9	99.9	97.9	95.3	92.6	89.3	87.9
175°	94.6	95.3	94.6	93.9	93.3	91.3	89.9	87.9	86.6	84.6	83.3
177.5°	86.6	87.3	87.3	86.6	85.9	84.6	83.9	82.6	81.9	80.6	79.9
180°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	38.6	36.6	35.3	33.3	31.3	30.0	28.6	27.3	26.6	26.6
5°	40.0	38.0	35.3	32.6	30.6	28.0	26.6	25.3	24.6	24.6
7.5°	47.3	44.6	41.3	38.0	35.3	32.0	30.0	28.6	28.0	28.0
10°	55.3	52.0	48.0	44.0	40.6	37.3	34.6	32.6	32.0	32.0
12.5°	64.6	59.9	55.3	50.0	46.0	41.3	38.6	36.6	36.0	35.3
15°	74.6	68.6	62.6	56.0	50.6	46.0	42.0	39.3	38.6	38.6
17.5°	85.3	77.3	69.9	61.9	55.3	48.6	44.6	41.3	40.0	40.0
20°	96.6	87.3	77.3	67.9	59.3	52.0	46.0	42.6	40.6	40.6
22.5°	109.9	98.6	85.9	74.6	64.6	55.3	48.0	43.3	41.3	40.6
25°	123.9	109.9	95.9	82.6	69.9	58.6	50.6	45.3	42.0	42.0
27.5°	139.2	123.2	106.6	90.6	75.3	62.6	52.6	46.6	43.3	42.6
30°	155.9	137.2	117.9	98.6	81.3	66.6	55.3	48.0	44.6	44.0
32.5°	171.9	150.5	128.6	107.2	87.3	69.9	58.0	50.0	46.0	45.3
35°	189.2	165.2	139.9	115.9	93.3	73.9	59.9	51.3	47.3	46.6
37.5°	205.2	179.2	150.5	123.9	99.2	77.9	62.6	53.3	48.6	48.0
40°	220.5	193.2	162.5	132.6	105.2	81.9	65.3	55.3	50.0	49.3
42.5°	235.1	206.5	173.9	140.5	110.6	85.9	67.9	57.3	52.0	51.3
45°	249.8	218.5	184.5	148.5	116.6	89.3	70.6	58.6	54.0	52.6
47.5°	263.1	230.5	194.5	156.5	121.9	93.3	72.6	60.6	55.3	54.6
50°	275.8	242.5	203.8	164.5	127.2	96.6	75.3	62.6	57.3	56.6
52.5°	287.8	253.1	213.8	172.5	131.9	99.9	77.9	64.6	59.3	58.6
55°	299.1	263.8	222.5	179.2	137.2	103.2	79.9	67.3	61.3	60.6
57.5°	311.1	273.8	231.1	186.5	141.9	106.6	82.6	69.3	63.3	62.6
60°	320.4	283.1	239.1	192.5	146.5	109.9	85.3	71.3	65.3	64.6
62.5°	331.1	291.8	247.1	199.2	151.2	113.2	87.9	73.9	67.9	67.3
65°	339.7	300.4	254.4	205.2	155.2	115.9	89.9	75.9	69.9	69.3
67.5°	349.0	309.1	261.8	211.2	159.9	119.2	92.6	78.6	72.6	71.9
70°	357.0	316.4	268.4	216.5	164.5	122.6	95.3	80.6	75.3	73.9
72.5°	364.4	324.4	275.1	221.8	169.9	125.2	97.9	83.3	77.3	76.6
75°	371.0	330.4	281.1	226.5	173.2	127.9	99.9	85.3	79.9	78.6
77.5°	377.7	336.4	286.4	231.1	176.5	131.2	102.6	87.9	81.9	81.3
80°	383.0	341.0	291.1	234.5	179.2	133.2	104.6	89.9	83.9	83.3
82.5°	387.0	345.0	295.1	237.8	181.8	135.2	105.9	91.3	85.3	84.6
85°	390.3	348.4	297.7	240.5	184.5	136.5	107.9	92.6	86.6	85.9
87.5°	393.0	350.4	299.7	242.5	185.2	137.9	108.6	93.9	87.9	87.3
90°	394.3	351.7	301.1	243.1	186.5	138.5	109.2	94.6	88.6	87.9
92.5°	393.7	351.7	301.1	243.8	187.2	139.2	109.9	94.6	88.6	87.9
95°	393.0	351.0	300.4	243.1	186.5	139.2	109.9	94.6	88.6	87.9
97.5°	390.3	349.0	299.1	241.8	185.8	138.5	108.6	93.9	87.9	87.3
100°	387.0	345.0	296.4	239.8	184.5	137.2	107.9	92.6	86.6	85.9
102.5°	381.7	341.0	292.4	237.1	181.8	135.2	105.9	91.3	85.3	84.6
105°	375.7	335.7	287.8	233.1	179.2	133.2	103.9	89.3	83.3	82.6
107.5°	369.7	328.4	281.8	228.5	175.8	130.6	101.9	87.3	81.3	80.6
110°	361.7	321.7	275.8	223.8	171.9	127.2	99.2	84.6	79.3	77.9



REPORT NUMBER: P256772

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	353.0	314.4	269.1	217.8	167.9	124.6	97.3	82.6	76.6	75.9
115°	344.4	305.7	261.8	212.5	161.9	121.2	94.6	80.6	74.6	73.9
117.5°	335.0	297.1	253.8	205.8	157.2	117.9	91.9	77.9	71.9	71.3
120°	325.1	288.4	245.8	199.2	152.5	114.6	89.3	75.9	69.9	69.3
122.5°	315.1	279.1	237.8	193.2	147.9	111.2	87.3	73.3	67.9	66.6
125°	304.4	269.1	229.1	185.8	143.2	108.6	84.6	71.3	65.9	65.3
127.5°	293.1	258.4	219.8	178.5	137.9	105.2	82.6	69.9	63.9	63.3
130°	281.1	248.5	211.2	171.9	133.2	101.9	80.6	67.9	61.9	61.3
132.5°	268.4	237.1	201.8	163.2	127.9	98.6	77.9	65.9	60.6	59.9
135°	255.1	225.8	191.8	155.2	122.6	95.3	75.9	64.6	59.3	58.6
137.5°	242.5	213.8	182.5	147.9	117.9	92.6	74.6	63.3	58.6	58.0
140°	227.8	201.2	171.9	140.5	112.6	89.3	72.6	61.9	57.3	56.6
142.5°	213.8	189.2	160.5	133.2	107.9	86.6	71.3	61.3	56.6	56.0
145°	200.5	177.2	151.2	126.6	103.2	83.9	69.3	60.6	56.6	56.0
147.5°	187.8	166.5	142.5	119.9	98.6	81.3	67.9	59.9	56.0	55.3
150°	175.2	153.9	133.2	113.2	94.6	78.6	67.3	59.3	56.0	55.3
152.5°	160.5	143.2	125.2	107.2	90.6	76.6	65.9	59.3	56.0	56.0
155°	149.2	133.2	117.2	101.2	87.3	75.3	65.9	59.9	56.6	56.6
157.5°	137.9	124.6	110.6	96.6	84.6	73.9	65.9	60.6	58.0	58.0
160°	127.2	115.9	103.9	92.6	81.9	73.3	65.9	61.3	59.3	58.6
162.5°	117.2	107.2	97.3	87.9	79.3	71.9	65.9	61.9	59.9	59.9
165°	107.2	99.2	91.3	83.9	77.3	70.6	65.9	63.3	61.3	61.3
167.5°	98.6	92.6	86.6	80.6	75.3	70.6	66.6	63.9	63.3	62.6
170°	91.9	87.3	82.6	77.9	73.9	69.9	67.3	65.9	64.6	64.6
172.5°	85.9	82.6	79.3	75.9	73.3	70.6	69.3	67.9	67.3	67.3
175°	81.9	79.9	77.9	75.9	74.6	72.6	71.9	71.3	70.6	70.6
177.5°	79.9	78.6	77.9	77.3	76.6	75.9	75.9	75.3	75.3	75.3
180°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9

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