

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: P256793

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256793
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-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.8 lumens
Efficiency: N/A
Efficacy: 136.5 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



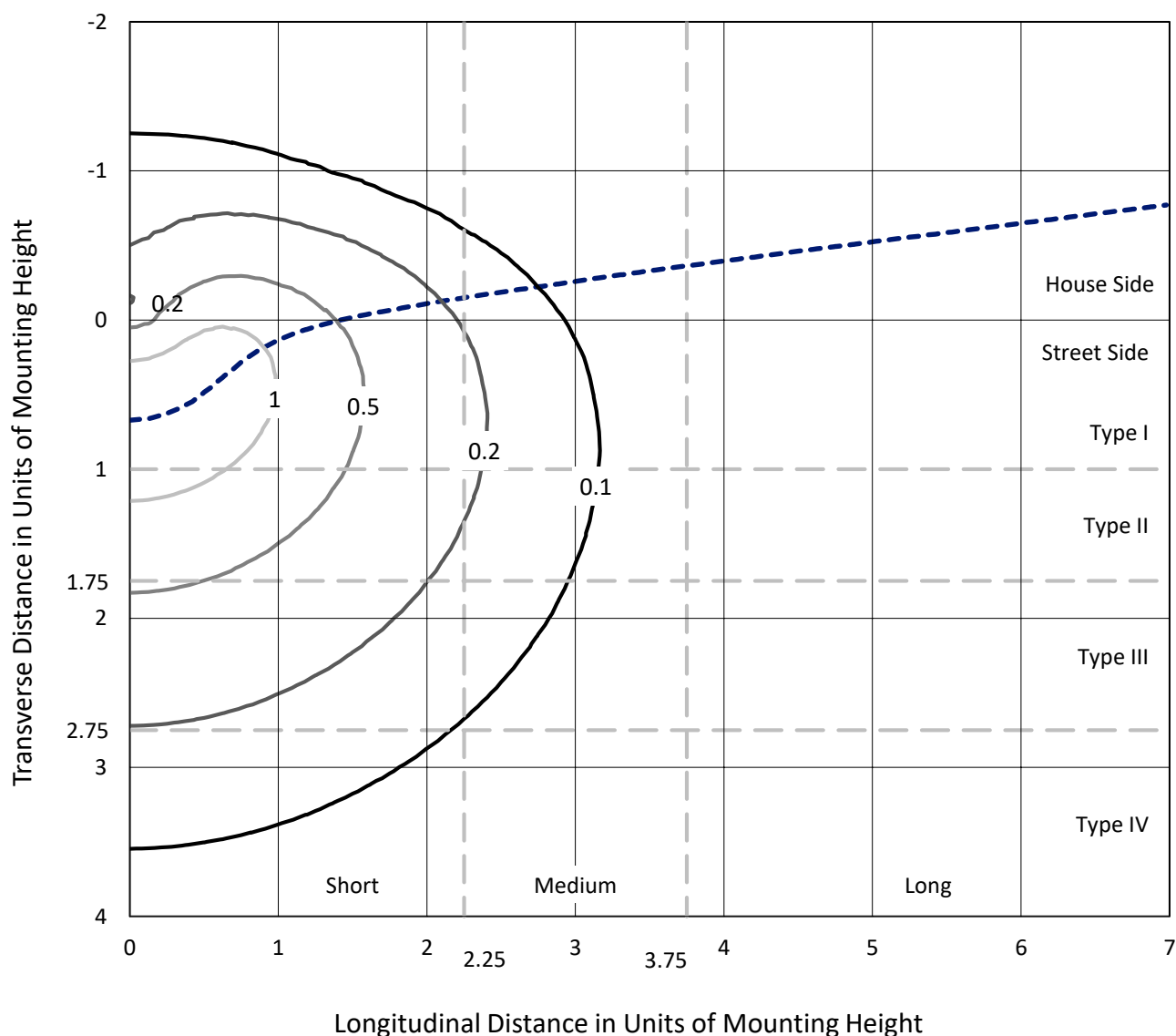
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

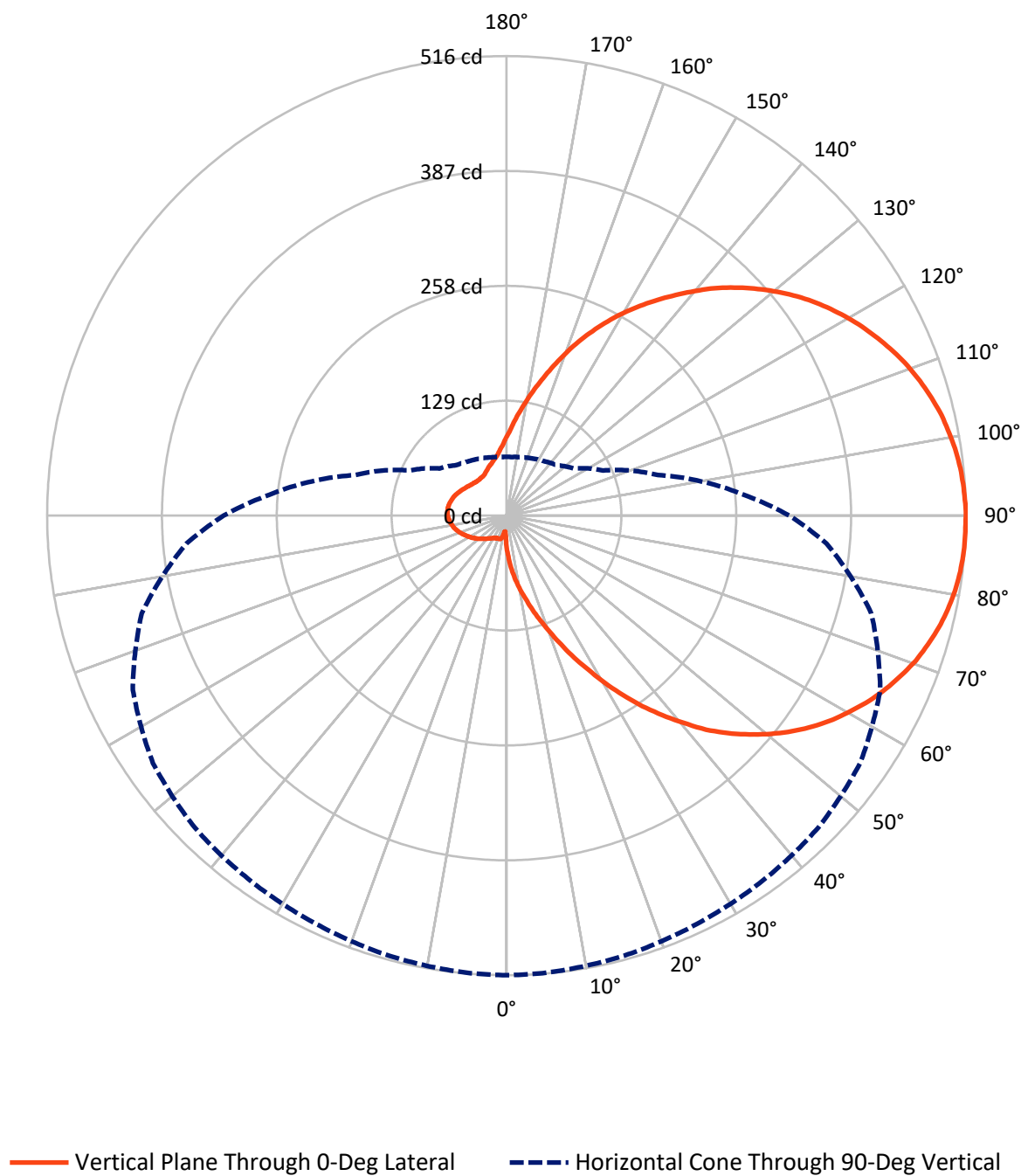


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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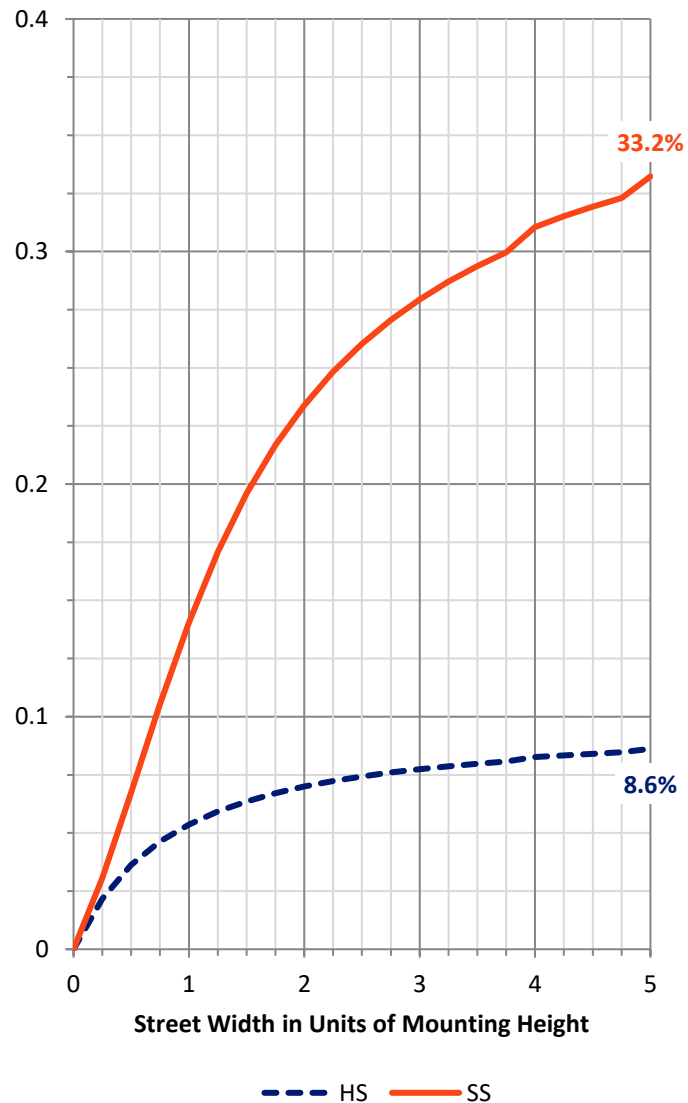
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.3	339.2	618.5
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1132.8	1169.5	2302.3
	% Fixture	38.8	40.0	78.8
Total	Lumens	1412.1	1508.7	2920.8
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	20.3	0.7
20°-30°	50.8	1.7
30°-40°	97.9	3.4
40°-50°	154.3	5.3
50°-60°	210.3	7.2
60°-70°	259.5	8.9
70°-80°	297.1	10.2
80°-90°	317.6	10.9
90°-100°	319.0	10.9
100°-110°	301.0	10.3
110°-120°	267.2	9.1
120°-130°	222.9	7.6
130°-140°	170.7	5.8
140°-150°	116.8	4.0
150°-160°	69.4	2.4
160°-170°	32.8	1.1
170°-180°	8.9	0.3
0°-90°	1412.1	48.3
0°-180°	2920.8	100.0

Coefficient of Utilization



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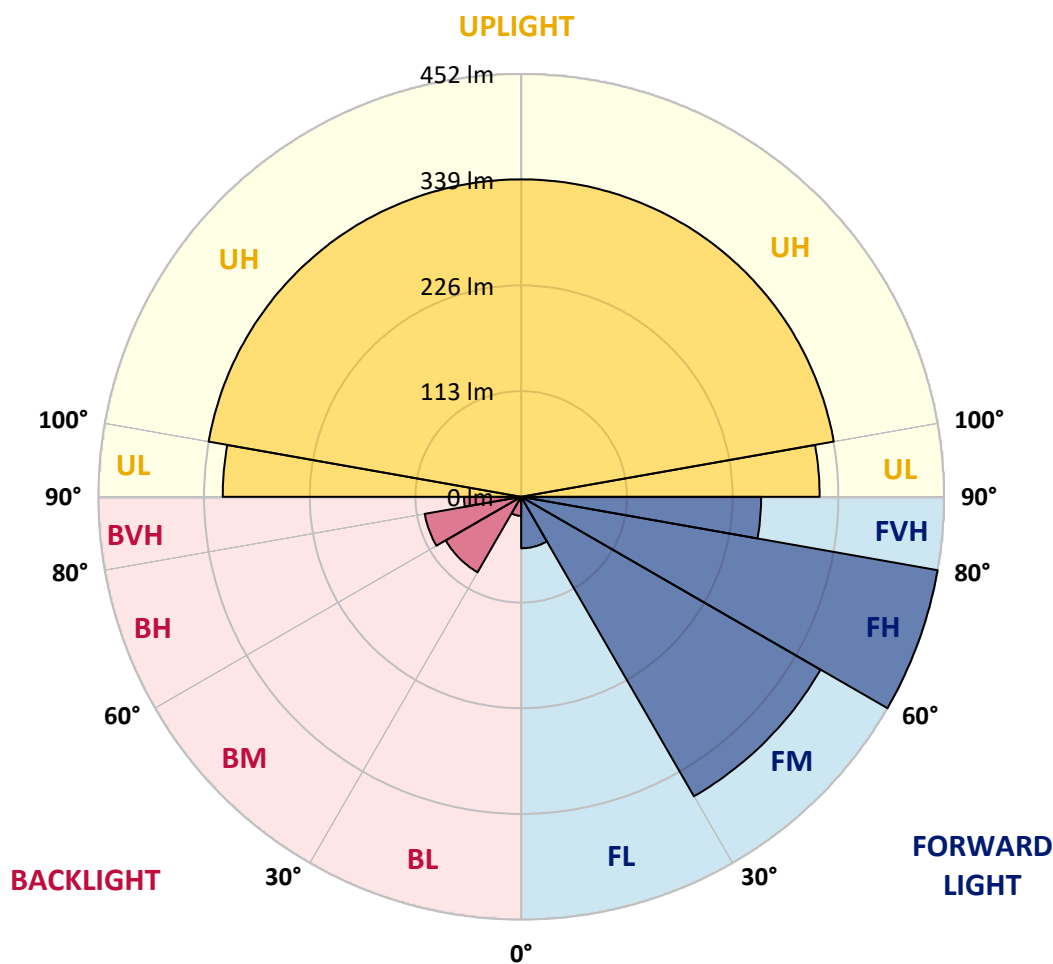
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.0	1.9			
FM	(30°-60°)	369.5	12.6			
FH	(60°-80°)	451.9	15.5			G0/660
FVH	(80°-90°)	256.4	8.8			G3/500
BL	(0°-30°)	20.4	0.7	B0/110		
BM	(30°-60°)	93.1	3.2	B0/220		
BH	(60°-80°)	104.7	3.6	B0/110		G0/110
BVH	(80°-90°)	61.1	2.1			G1/100
UL	(90°-100°)	319.0	10.9		U3/500	
UH	(100°-180°)	339.2	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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	48.2	47.4	47.4	46.9	46.9	45.3	43.6	41.9	39.8	38.5	37.6
5°	60.9	59.6	59.2	57.9	56.7	53.7	51.6	48.2	45.3	41.4	39.8
7.5°	72.7	71.9	70.6	68.9	67.7	63.9	60.9	56.7	52.9	48.6	46.9
10°	84.6	83.7	82.5	80.8	78.2	75.3	71.9	66.8	62.2	57.1	54.6
12.5°	96.0	95.6	94.7	93.1	90.9	87.6	83.7	78.2	72.7	66.0	62.6
15°	110.0	109.1	108.3	106.6	104.5	100.7	96.4	90.9	83.7	76.1	72.3
17.5°	123.9	123.1	123.1	121.8	119.3	115.9	111.2	104.5	95.6	86.3	81.2
20°	139.6	138.7	138.7	137.5	134.9	131.5	126.5	119.3	109.5	97.3	91.4
22.5°	157.3	156.5	156.5	155.2	152.7	149.3	143.8	135.8	124.3	111.2	103.2
25°	176.8	175.5	175.5	174.3	171.7	168.3	162.8	153.5	140.4	125.6	116.3
27.5°	195.8	195.8	195.0	195.0	192.4	189.1	183.1	173.0	158.2	140.4	129.4
30°	218.2	218.2	217.0	216.6	213.6	210.6	203.9	192.9	176.8	155.6	142.5
32.5°	240.2	240.2	239.0	238.5	235.2	232.2	225.0	213.2	195.0	170.5	156.1
35°	262.7	261.8	261.0	260.5	257.6	253.8	246.6	233.0	212.7	185.3	169.2
37.5°	284.2	284.2	283.4	282.1	279.6	274.9	266.5	252.1	230.5	200.1	181.4
40°	305.8	306.2	305.4	304.1	299.9	296.1	287.2	271.5	247.9	214.0	193.7
42.5°	328.6	327.4	326.1	324.8	320.6	315.9	306.6	290.1	264.3	227.6	205.1
45°	348.5	347.7	346.4	344.7	340.9	335.0	325.7	307.5	280.0	239.8	216.1
47.5°	367.1	366.7	364.6	362.5	359.1	352.7	342.6	324.0	294.8	252.1	225.9
50°	385.3	385.3	383.2	379.8	376.0	370.9	359.1	339.6	308.8	263.5	235.6
52.5°	402.2	401.8	398.8	395.0	391.7	386.2	374.7	354.4	321.9	274.1	244.0
55°	417.9	417.5	414.1	410.3	406.5	401.0	389.1	368.0	334.6	284.2	252.5
57.5°	432.3	431.8	428.5	423.8	420.0	414.5	402.2	380.2	346.0	293.5	260.5
60°	445.0	444.5	441.1	436.1	432.3	426.8	414.9	392.1	357.0	302.4	267.7
62.5°	457.6	456.8	453.0	447.9	443.3	438.2	426.3	403.5	367.5	310.9	274.5
65°	468.6	467.8	463.6	458.1	453.8	448.3	436.5	413.7	376.9	318.9	281.3
67.5°	478.4	477.5	473.3	467.4	463.1	457.6	446.2	423.0	385.3	326.1	287.2
70°	487.7	486.4	482.2	475.8	471.6	466.1	454.7	431.4	393.8	332.9	293.1
72.5°	494.9	494.0	489.4	483.0	478.4	473.7	462.3	439.0	401.0	339.2	298.6
75°	501.6	500.8	496.1	489.4	485.1	480.1	469.1	445.8	406.9	344.7	303.3
77.5°	506.7	505.9	501.2	494.4	490.2	485.1	474.1	451.3	412.0	349.4	307.1
80°	510.9	509.7	505.0	498.7	494.0	488.9	478.4	455.5	416.6	353.2	310.9
82.5°	513.5	512.6	508.4	502.1	497.4	491.9	481.3	458.9	419.6	356.6	313.4
85°	515.2	514.3	510.1	504.2	499.1	494.0	483.4	461.0	422.1	358.7	315.5
87.5°	515.6	515.2	511.4	505.4	500.4	494.9	484.3	462.3	423.8	360.4	316.8
90°	516.0	515.2	511.4	505.9	500.8	495.3	484.7	463.1	424.2	360.8	317.6
92.5°	514.7	514.3	510.9	505.4	500.8	494.4	483.9	462.7	424.2	361.2	318.1
95°	513.0	512.2	509.7	504.2	499.1	493.2	482.2	461.4	423.4	360.8	317.6
97.5°	510.1	509.7	507.1	501.6	497.0	490.6	479.6	458.9	421.3	359.1	316.8
100°	505.9	505.4	502.9	497.8	492.7	486.8	475.8	455.1	417.9	356.6	314.7
102.5°	501.6	500.8	498.2	493.2	488.5	482.6	471.6	451.3	414.1	353.6	312.6
105°	495.3	494.4	492.3	487.7	482.6	476.7	465.7	445.8	408.6	349.8	309.2
107.5°	488.5	487.7	485.6	480.9	475.8	470.3	459.8	439.9	403.1	345.6	305.8
110°	480.9	479.2	477.5	472.9	468.2	463.1	452.6	433.1	397.6	340.5	302.0



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	472.0	471.2	469.1	464.8	459.8	455.1	444.5	425.5	390.0	335.0	298.2
115°	462.3	461.4	459.3	455.1	450.9	446.2	436.5	416.6	382.8	329.5	294.0
117.5°	452.1	451.3	448.8	445.0	441.1	436.9	426.8	408.2	374.7	323.1	289.3
120°	441.1	440.3	438.2	434.8	431.0	426.8	417.0	398.4	366.3	316.8	284.2
122.5°	429.3	428.9	426.8	423.0	419.6	416.2	406.9	388.7	357.4	309.6	279.2
125°	417.0	416.2	414.1	410.7	408.2	404.3	395.0	377.3	347.7	302.0	273.2
127.5°	403.5	403.1	401.0	398.0	395.5	392.1	382.8	365.9	337.1	294.0	266.9
130°	389.1	389.1	386.2	384.5	382.4	378.5	369.7	353.2	325.7	284.7	259.7
132.5°	374.3	373.9	372.2	369.7	368.0	364.2	355.7	339.6	313.4	275.3	252.1
135°	359.1	358.7	356.1	354.4	353.2	349.4	340.5	325.3	300.7	265.2	243.6
137.5°	343.0	343.0	340.5	339.2	337.5	333.3	324.8	310.0	287.2	254.2	234.3
140°	325.7	325.7	324.0	321.9	320.6	315.9	307.9	293.5	272.4	241.9	224.2
142.5°	308.8	308.8	307.1	305.0	303.3	298.6	290.6	277.0	257.6	230.1	214.0
145°	292.3	292.3	291.0	288.9	286.8	282.1	274.1	261.0	243.2	217.8	203.9
147.5°	275.8	275.8	274.5	272.4	270.3	265.6	257.6	245.3	228.8	206.4	193.3
150°	259.3	259.3	257.6	255.5	253.8	248.7	241.1	229.2	214.4	193.7	182.3
152.5°	242.4	242.4	240.7	239.0	236.4	231.8	224.2	214.0	199.6	181.4	171.3
155°	225.0	224.2	223.3	221.6	219.1	214.4	207.2	197.9	184.8	169.2	160.3
157.5°	208.1	207.2	206.0	204.7	202.2	197.9	191.2	182.3	170.9	157.3	149.7
160°	189.9	190.8	189.5	188.2	185.7	181.0	175.1	167.5	157.3	145.5	139.2
162.5°	173.0	173.4	172.6	171.3	169.2	164.5	159.5	152.7	143.8	133.7	128.2
165°	156.9	157.3	156.5	155.2	153.1	148.9	144.7	138.3	130.7	122.7	118.0
167.5°	142.5	143.4	141.7	140.4	138.7	134.9	131.1	126.0	119.3	112.9	109.1
170°	128.6	129.8	128.2	127.3	125.6	122.7	118.9	115.0	109.5	104.0	100.7
172.5°	116.3	117.2	115.9	115.0	113.4	110.8	108.3	104.9	100.7	96.4	94.3
175°	104.9	104.9	104.5	102.8	102.4	100.7	98.5	96.4	94.3	91.4	89.7
177.5°	94.3	94.3	94.3	93.9	93.5	92.6	91.8	90.5	89.2	88.0	87.1
180°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	36.8	34.3	32.1	30.0	27.9	26.6	24.5	24.1	23.7	23.3
5°	38.1	34.7	30.9	27.9	25.0	22.0	19.9	18.6	17.8	17.8
7.5°	44.4	40.6	36.0	31.7	28.3	25.0	22.4	20.3	19.0	18.6
10°	51.6	46.5	41.0	36.0	32.1	28.3	25.0	22.8	22.0	22.0
12.5°	59.6	53.3	46.5	40.2	35.5	30.9	27.5	25.8	25.0	25.0
15°	67.7	59.6	51.6	44.0	38.1	33.4	30.0	27.9	27.1	27.1
17.5°	76.1	66.4	56.3	47.4	40.6	35.1	31.3	28.8	27.5	27.5
20°	85.0	72.7	60.9	50.3	42.3	36.0	31.7	28.8	27.5	27.1
22.5°	95.2	79.9	66.0	53.7	44.4	37.2	32.1	29.2	27.5	27.5
25°	106.6	87.6	71.1	56.7	46.1	38.1	32.6	29.2	27.9	27.5
27.5°	118.4	95.6	76.1	60.1	47.8	39.3	33.4	30.0	28.3	28.3
30°	130.3	103.6	80.8	62.6	49.5	40.2	34.3	30.9	29.2	28.8
32.5°	141.7	111.7	85.0	65.1	51.2	41.4	35.1	31.7	30.0	30.0
35°	151.8	118.0	88.8	66.8	52.4	42.7	36.4	32.6	30.9	30.9
37.5°	162.4	124.3	91.8	68.5	53.3	43.6	37.2	33.8	32.1	32.1
40°	172.1	129.8	94.3	69.8	54.1	44.4	38.5	35.1	33.4	33.4
42.5°	181.4	134.9	96.4	71.1	55.4	45.7	39.8	36.4	35.1	35.1
45°	189.9	138.7	98.1	71.9	56.3	46.9	41.4	38.1	36.8	36.4
47.5°	197.5	142.5	99.4	72.7	57.1	47.8	42.7	39.8	38.1	38.1
50°	204.7	145.9	100.7	73.2	57.9	49.1	44.4	41.4	40.2	40.2
52.5°	211.5	148.9	101.5	74.0	58.8	50.3	45.7	43.1	41.9	41.9
55°	217.8	151.8	103.2	74.9	60.1	52.0	47.4	44.8	43.6	43.6
57.5°	223.7	154.4	104.5	75.7	60.9	53.7	49.5	46.9	45.7	45.7
60°	229.2	156.5	105.3	76.6	62.2	55.4	51.2	48.6	47.4	47.4
62.5°	234.7	159.0	106.2	77.8	63.9	57.1	53.3	50.8	49.5	49.5
65°	239.8	161.1	107.4	79.1	65.1	58.8	55.0	52.9	51.6	51.2
67.5°	244.0	162.8	108.7	80.4	66.8	60.5	57.1	55.0	53.3	53.3
70°	248.3	165.0	110.4	81.6	68.5	62.6	58.8	56.7	55.4	55.0
72.5°	252.5	167.1	111.7	82.9	70.2	64.3	60.9	58.4	57.1	57.1
75°	256.3	168.8	113.4	84.6	71.9	66.4	62.6	60.5	58.8	58.8
77.5°	259.3	170.5	114.6	85.9	73.6	67.7	64.3	62.2	60.5	60.5
80°	261.8	171.7	115.9	87.6	75.3	69.4	66.0	63.4	62.2	61.8
82.5°	264.3	173.0	116.7	88.8	76.6	71.1	67.3	65.1	63.4	63.0
85°	265.6	174.3	118.0	90.1	77.8	72.3	68.5	66.0	64.7	64.3
87.5°	266.9	175.1	118.9	90.9	79.1	73.2	69.8	67.3	65.6	65.1
90°	267.7	176.0	119.7	92.2	79.9	74.4	70.6	67.7	66.0	66.0
92.5°	268.2	176.4	120.5	92.6	80.8	74.9	71.1	68.1	66.4	66.4
95°	268.2	176.8	121.4	93.5	81.6	75.3	71.5	68.5	66.8	66.4
97.5°	267.7	177.2	121.8	94.3	82.1	75.3	71.5	68.5	66.8	66.4
100°	266.5	176.8	122.7	94.7	82.1	75.3	71.1	68.1	66.4	66.0
102.5°	265.2	177.2	123.5	95.6	82.5	75.3	70.6	67.7	66.0	65.6
105°	263.1	177.6	124.3	96.0	82.5	74.9	70.2	66.8	65.1	64.7
107.5°	261.0	177.6	125.2	96.4	82.5	74.4	69.4	66.0	64.3	63.9
110°	258.8	178.5	126.5	97.7	82.5	74.0	68.5	65.1	63.0	63.0



REPORT NUMBER: P256793

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	256.7	178.9	128.2	98.5	82.9	73.2	67.3	63.9	61.8	61.8
115°	254.2	179.8	129.8	99.4	82.9	72.7	66.4	62.6	60.5	60.5
117.5°	251.7	180.6	131.1	100.7	83.3	72.3	65.6	61.3	59.2	59.2
120°	248.7	181.4	132.8	101.9	83.7	71.9	64.7	60.1	58.4	57.9
122.5°	245.7	181.4	134.5	104.0	84.2	71.5	63.9	59.2	57.1	56.7
125°	241.9	181.4	135.8	104.9	84.6	71.5	63.0	57.9	55.8	55.4
127.5°	237.7	181.0	137.0	105.7	84.6	71.1	62.2	57.1	54.6	54.6
130°	232.6	179.8	137.5	106.6	85.0	70.6	61.8	56.3	53.7	53.3
132.5°	227.6	178.1	137.5	107.4	85.4	70.6	60.9	55.4	52.9	52.4
135°	220.4	175.1	136.6	107.4	85.4	70.6	60.5	55.0	52.0	52.0
137.5°	213.2	171.7	135.3	106.6	85.4	70.2	60.5	54.6	51.6	51.2
140°	205.1	167.1	133.2	106.2	85.0	70.2	60.1	54.1	51.2	50.8
142.5°	196.7	162.4	131.1	105.3	85.0	70.2	60.1	54.1	51.2	50.8
145°	188.2	157.3	128.6	104.0	84.2	70.2	60.1	54.1	51.2	50.8
147.5°	179.3	151.8	125.6	101.9	83.7	70.2	60.5	54.1	51.6	51.2
150°	170.0	145.1	121.8	99.8	82.9	69.8	60.5	54.6	52.0	51.6
152.5°	160.7	138.3	117.2	97.3	82.1	69.8	60.9	55.4	52.9	52.4
155°	150.6	131.5	112.9	95.2	81.2	70.2	62.2	56.7	54.6	54.1
157.5°	141.3	124.8	108.7	93.1	80.8	70.6	63.4	58.4	56.3	55.8
160°	132.0	118.0	104.0	90.9	79.9	71.1	64.3	60.1	57.9	57.9
162.5°	122.7	110.8	98.5	88.0	78.7	71.1	65.6	61.8	59.6	59.6
165°	113.4	103.2	93.9	85.0	77.4	71.5	66.4	63.4	61.8	61.3
167.5°	105.3	97.3	89.7	82.9	76.6	71.9	67.7	65.1	63.9	63.9
170°	97.7	92.2	86.3	81.2	76.6	72.7	69.4	67.7	66.4	66.4
172.5°	92.2	88.4	84.2	80.4	77.0	74.0	71.9	70.6	69.8	69.4
175°	88.4	85.9	82.9	80.8	78.7	76.6	75.3	74.9	74.4	74.4
177.5°	86.7	85.0	83.7	82.5	81.6	80.8	80.4	79.9	79.9	79.5
180°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7

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