

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: P256802

Luminaire Tested: **ULA-A6-D-U-ASYM-VMx-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256802
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-A6-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: 5134.1 lumens
Efficiency: N/A
Efficacy: 112.8 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): 45.5
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



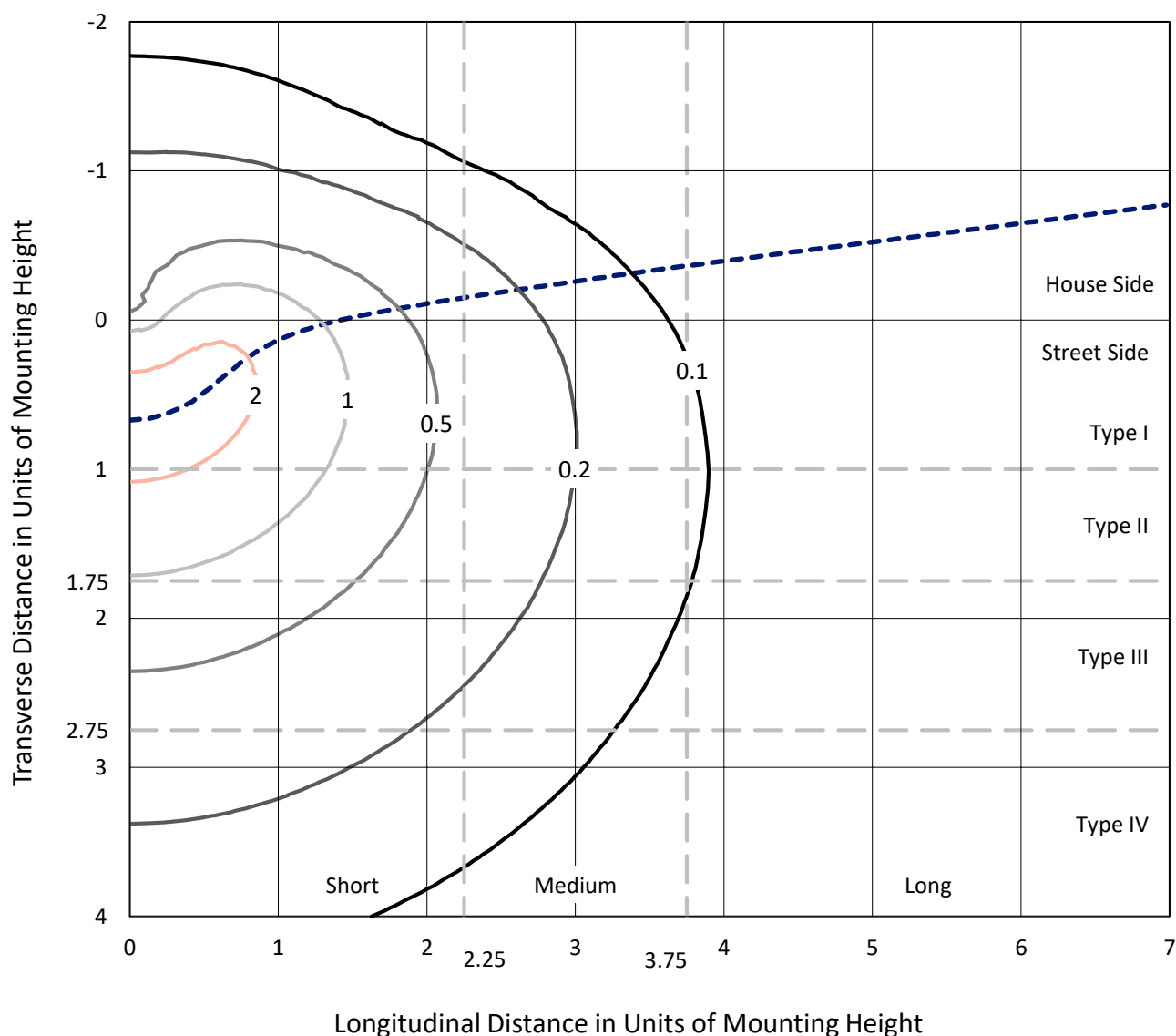
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

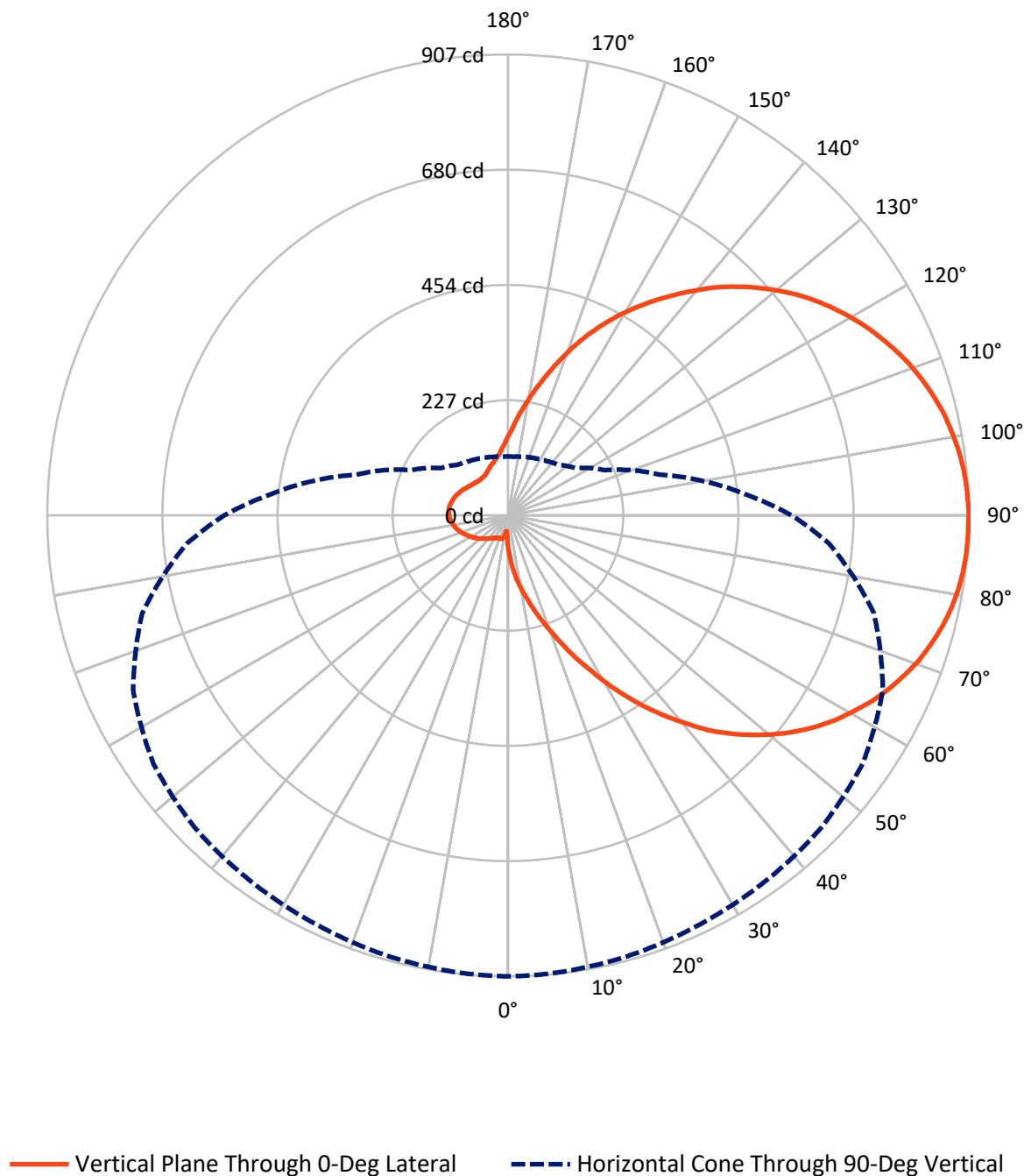


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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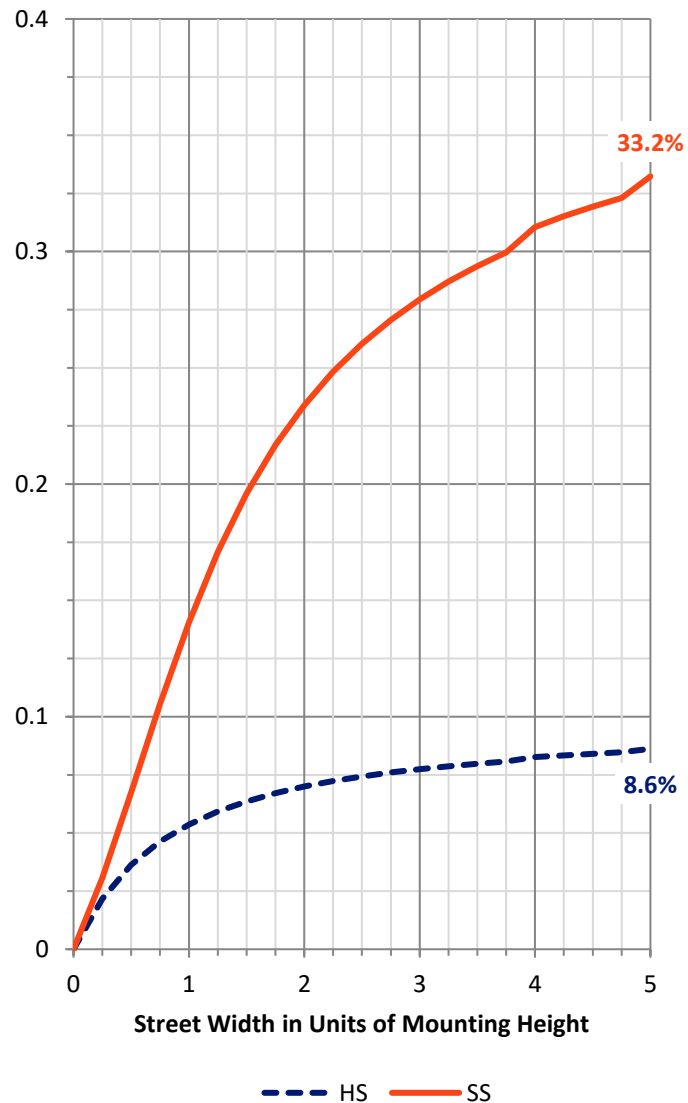
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	490.9	596.3	1087.2
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1991.2	2055.7	4046.9
	% Fixture	38.8	40.0	78.8
Total	Lumens	2482.1	2652.0	5134.1
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	35.7	0.7
20°-30°	89.3	1.7
30°-40°	172.2	3.4
40°-50°	271.3	5.3
50°-60°	369.7	7.2
60°-70°	456.1	8.9
70°-80°	522.1	10.2
80°-90°	558.2	10.9
90°-100°	560.7	10.9
100°-110°	529.0	10.3
110°-120°	469.7	9.1
120°-130°	391.8	7.6
130°-140°	300.1	5.8
140°-150°	205.3	4.0
150°-160°	122.0	2.4
160°-170°	57.7	1.1
170°-180°	15.6	0.3
0°-90°	2482.1	48.3
0°-180°	5134.1	100.0

Coefficient of Utilization



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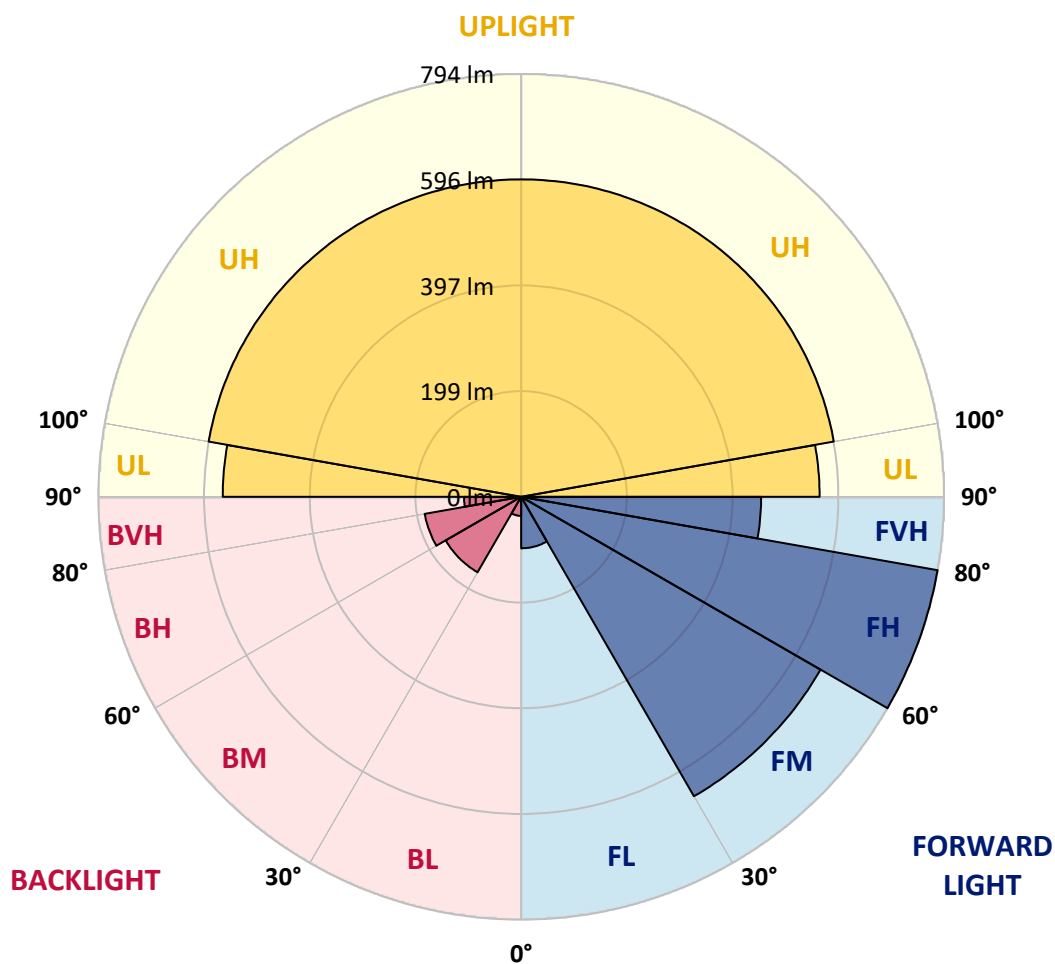
CATALOG NUMBER: ULA-A6-D-U-ASYM-VMx-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.7	1.9			
FM	(30°-60°)	649.4	12.6			
FH	(60°-80°)	794.3	15.5			G1/1800
FVH	(80°-90°)	450.7	8.8			G3/500
BL	(0°-30°)	35.9	0.7	B0/110		
BM	(30°-60°)	163.7	3.2	B0/220		
BH	(60°-80°)	183.9	3.6	B1/500		G1/500
BVH	(80°-90°)	107.4	2.1			G2/225
UL	(90°-100°)	560.7	10.9		U4/1000	
UH	(100°-180°)	596.3	11.6		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°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	84.8	83.3	83.3	82.5	82.5	79.6	76.6	73.6	69.9	67.7	66.2
5°	107.1	104.8	104.1	101.9	99.6	94.4	90.7	84.8	79.6	72.9	69.9
7.5°	127.9	126.4	124.2	121.2	119.0	112.3	107.1	99.6	92.9	85.5	82.5
10°	148.7	147.2	145.0	142.0	137.5	132.3	126.4	117.5	109.3	100.4	95.9
12.5°	168.8	168.0	166.5	163.6	159.8	153.9	147.2	137.5	127.9	116.0	110.0
15°	193.3	191.8	190.3	187.4	183.6	176.9	169.5	159.8	147.2	133.8	127.1
17.5°	217.8	216.3	216.3	214.1	209.7	203.7	195.5	183.6	168.0	151.7	142.7
20°	245.3	243.9	243.9	241.6	237.2	231.2	222.3	209.7	192.6	171.0	160.6
22.5°	276.6	275.1	275.1	272.9	268.4	262.4	252.8	238.7	218.6	195.5	181.4
25°	310.8	308.5	308.5	306.3	301.8	295.9	286.2	269.9	246.8	220.8	204.5
27.5°	344.2	344.2	342.7	342.7	338.3	332.3	321.9	304.1	278.1	246.8	227.5
30°	383.6	383.6	381.4	380.7	375.4	370.2	358.3	339.0	310.8	273.6	250.5
32.5°	422.3	422.3	420.1	419.3	413.4	408.2	395.5	374.7	342.7	299.6	274.3
35°	461.7	460.2	458.7	458.0	452.8	446.1	433.4	409.6	374.0	325.6	297.4
37.5°	499.6	499.6	498.1	495.9	491.4	483.3	468.4	443.1	405.2	351.7	318.9
40°	537.5	538.3	536.8	534.5	527.1	520.4	504.8	477.3	435.7	376.2	340.5
42.5°	577.7	575.4	573.2	571.0	563.5	555.4	539.0	510.0	464.7	400.0	360.6
45°	612.6	611.1	608.9	605.9	599.2	588.8	572.5	540.5	492.2	421.5	379.9
47.5°	645.3	644.6	640.9	637.1	631.2	620.0	602.2	569.5	518.2	443.1	397.0
50°	677.3	677.3	673.6	667.6	660.9	652.0	631.2	597.0	542.7	463.2	414.1
52.5°	707.0	706.3	701.1	694.4	688.4	678.8	658.7	623.0	565.8	481.8	429.0
55°	734.5	733.8	727.8	721.2	714.5	704.8	684.0	646.8	588.1	499.6	443.8
57.5°	759.8	759.1	753.1	744.9	738.3	728.6	707.0	668.4	608.2	516.0	458.0
60°	782.1	781.4	775.4	766.5	759.8	750.2	729.3	689.2	627.5	531.6	470.6
62.5°	804.4	802.9	796.2	787.3	779.1	770.2	749.4	709.3	646.1	546.4	482.5
65°	823.8	822.3	814.8	805.2	797.7	788.1	767.3	727.1	662.4	560.6	494.4
67.5°	840.9	839.4	831.9	821.5	814.1	804.4	784.4	743.5	677.3	573.2	504.8
70°	857.2	855.0	847.5	836.4	829.0	819.3	799.2	758.3	692.2	585.1	515.2
72.5°	869.9	868.4	860.2	849.0	840.9	832.7	812.6	771.7	704.8	596.3	524.9
75°	881.7	880.3	872.1	860.2	852.8	843.8	824.5	783.6	715.2	605.9	533.1
77.5°	890.7	889.2	881.0	869.1	861.7	852.8	833.4	793.3	724.1	614.1	539.8
80°	898.1	895.9	887.7	876.5	868.4	859.4	840.9	800.7	732.3	620.8	546.4
82.5°	902.6	901.1	893.6	882.5	874.3	864.6	846.1	806.7	737.5	626.7	550.9
85°	905.5	904.1	896.6	886.2	877.3	868.4	849.8	810.4	742.0	630.5	554.6
87.5°	906.3	905.5	898.8	888.4	879.5	869.9	851.3	812.6	744.9	633.4	556.9
90°	907.0	905.5	898.8	889.2	880.3	870.6	852.0	814.1	745.7	634.2	558.3
92.5°	904.8	904.1	898.1	888.4	880.3	869.1	850.5	813.3	745.7	634.9	559.1
95°	901.8	900.3	895.9	886.2	877.3	866.9	847.5	811.1	744.2	634.2	558.3
97.5°	896.6	895.9	891.4	881.7	873.6	862.4	843.1	806.7	740.5	631.2	556.9
100°	889.2	888.4	884.0	875.1	866.1	855.7	836.4	800.0	734.5	626.7	553.1
102.5°	881.7	880.3	875.8	866.9	858.7	848.3	829.0	793.3	727.8	621.5	549.4
105°	870.6	869.1	865.4	857.2	848.3	837.9	818.6	783.6	718.2	614.8	543.5
107.5°	858.7	857.2	853.5	845.3	836.4	826.7	808.1	773.2	708.5	607.4	537.5
110°	845.3	842.3	839.4	831.2	823.0	814.1	795.5	761.3	698.9	598.5	530.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	829.7	828.2	824.5	817.1	808.1	800.0	781.4	747.9	685.5	588.8	524.1
115°	812.6	811.1	807.4	800.0	792.5	784.4	767.3	732.3	672.8	579.2	516.7
117.5°	794.8	793.3	788.8	782.1	775.4	768.0	750.2	717.4	658.7	568.0	508.5
120°	775.4	773.9	770.2	764.3	757.6	750.2	733.1	700.3	643.8	556.9	499.6
122.5°	754.6	753.9	750.2	743.5	737.5	731.6	715.2	683.2	628.2	544.2	490.7
125°	733.1	731.6	727.8	721.9	717.4	710.8	694.4	663.2	611.1	530.8	480.3
127.5°	709.3	708.5	704.8	699.6	695.1	689.2	672.8	643.1	592.5	516.7	469.1
130°	684.0	684.0	678.8	675.8	672.1	665.4	649.8	620.8	572.5	500.4	456.5
132.5°	658.0	657.2	654.2	649.8	646.8	640.1	625.3	597.0	550.9	484.0	443.1
135°	631.2	630.5	626.0	623.0	620.8	614.1	598.5	571.7	528.6	466.2	428.2
137.5°	602.9	602.9	598.5	596.3	593.3	585.8	571.0	545.0	504.8	446.8	411.9
140°	572.5	572.5	569.5	565.8	563.5	555.4	541.2	516.0	478.8	425.3	394.0
142.5°	542.7	542.7	539.8	536.0	533.1	524.9	510.8	487.0	452.8	404.4	376.2
145°	513.7	513.7	511.5	507.8	504.1	495.9	481.8	458.7	427.5	382.9	358.3
147.5°	484.7	484.7	482.5	478.8	475.1	466.9	452.8	431.2	402.2	362.8	339.8
150°	455.7	455.7	452.8	449.1	446.1	437.2	423.8	403.0	376.9	340.5	320.4
152.5°	426.0	426.0	423.0	420.1	415.6	407.4	394.0	376.2	350.9	318.9	301.1
155°	395.5	394.0	392.5	389.6	385.1	376.9	364.3	347.9	324.9	297.4	281.8
157.5°	365.8	364.3	362.1	359.8	355.4	347.9	336.0	320.4	300.4	276.6	263.2
160°	333.8	335.3	333.1	330.8	326.4	318.2	307.8	294.4	276.6	255.8	244.6
162.5°	304.1	304.8	303.3	301.1	297.4	289.2	280.3	268.4	252.8	234.9	225.3
165°	275.8	276.6	275.1	272.9	269.1	261.7	254.3	243.1	229.7	215.6	207.4
167.5°	250.5	252.0	249.1	246.8	243.9	237.2	230.5	221.6	209.7	198.5	191.8
170°	226.0	228.2	225.3	223.8	220.8	215.6	208.9	202.2	192.6	182.9	176.9
172.5°	204.5	205.9	203.7	202.2	199.2	194.8	190.3	184.4	176.9	169.5	165.8
175°	184.4	184.4	183.6	180.7	179.9	176.9	173.2	169.5	165.8	160.6	157.6
177.5°	165.8	165.8	165.8	165.0	164.3	162.8	161.3	159.1	156.9	154.6	153.2
180°	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4



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CATALOG NUMBER: ULA-A6-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	64.7	60.2	56.5	52.8	49.1	46.8	43.1	42.4	41.6	40.9
5°	66.9	61.0	54.3	49.1	43.9	38.7	34.9	32.7	31.2	31.2
7.5°	78.1	71.4	63.2	55.8	49.8	43.9	39.4	35.7	33.5	32.7
10°	90.7	81.8	72.1	63.2	56.5	49.8	43.9	40.1	38.7	38.7
12.5°	104.8	93.7	81.8	70.6	62.5	54.3	48.3	45.4	43.9	43.9
15°	119.0	104.8	90.7	77.3	66.9	58.7	52.8	49.1	47.6	47.6
17.5°	133.8	116.7	98.9	83.3	71.4	61.7	55.0	50.6	48.3	48.3
20°	149.4	127.9	107.1	88.5	74.3	63.2	55.8	50.6	48.3	47.6
22.5°	167.3	140.5	116.0	94.4	78.1	65.4	56.5	51.3	48.3	48.3
25°	187.4	153.9	124.9	99.6	81.0	66.9	57.2	51.3	49.1	48.3
27.5°	208.2	168.0	133.8	105.6	84.0	69.1	58.7	52.8	49.8	49.8
30°	229.0	182.1	142.0	110.0	87.0	70.6	60.2	54.3	51.3	50.6
32.5°	249.1	196.3	149.4	114.5	90.0	72.9	61.7	55.8	52.8	52.8
35°	266.9	207.4	156.1	117.5	92.2	75.1	63.9	57.2	54.3	54.3
37.5°	285.5	218.6	161.3	120.4	93.7	76.6	65.4	59.5	56.5	56.5
40°	302.6	228.2	165.8	122.7	95.2	78.1	67.7	61.7	58.7	58.7
42.5°	318.9	237.2	169.5	124.9	97.4	80.3	69.9	63.9	61.7	61.7
45°	333.8	243.9	172.5	126.4	98.9	82.5	72.9	66.9	64.7	63.9
47.5°	347.2	250.5	174.7	127.9	100.4	84.0	75.1	69.9	66.9	66.9
50°	359.8	256.5	176.9	128.6	101.9	86.2	78.1	72.9	70.6	70.6
52.5°	371.7	261.7	178.4	130.1	103.3	88.5	80.3	75.8	73.6	73.6
55°	382.9	266.9	181.4	131.6	105.6	91.4	83.3	78.8	76.6	76.6
57.5°	393.3	271.4	183.6	133.1	107.1	94.4	87.0	82.5	80.3	80.3
60°	403.0	275.1	185.1	134.6	109.3	97.4	90.0	85.5	83.3	83.3
62.5°	412.6	279.5	186.6	136.8	112.3	100.4	93.7	89.2	87.0	87.0
65°	421.5	283.3	188.8	139.0	114.5	103.3	96.7	92.9	90.7	90.0
67.5°	429.0	286.2	191.1	141.3	117.5	106.3	100.4	96.7	93.7	93.7
70°	436.4	290.0	194.0	143.5	120.4	110.0	103.3	99.6	97.4	96.7
72.5°	443.8	293.7	196.3	145.7	123.4	113.0	107.1	102.6	100.4	100.4
75°	450.5	296.6	199.2	148.7	126.4	116.7	110.0	106.3	103.3	103.3
77.5°	455.7	299.6	201.5	150.9	129.4	119.0	113.0	109.3	106.3	106.3
80°	460.2	301.8	203.7	153.9	132.3	121.9	116.0	111.5	109.3	108.5
82.5°	464.7	304.1	205.2	156.1	134.6	124.9	118.2	114.5	111.5	110.8
85°	466.9	306.3	207.4	158.4	136.8	127.1	120.4	116.0	113.7	113.0
87.5°	469.1	307.8	208.9	159.8	139.0	128.6	122.7	118.2	115.2	114.5
90°	470.6	309.3	210.4	162.1	140.5	130.8	124.2	119.0	116.0	116.0
92.5°	471.4	310.0	211.9	162.8	142.0	131.6	124.9	119.7	116.7	116.7
95°	471.4	310.8	213.4	164.3	143.5	132.3	125.6	120.4	117.5	116.7
97.5°	470.6	311.5	214.1	165.8	144.2	132.3	125.6	120.4	117.5	116.7
100°	468.4	310.8	215.6	166.5	144.2	132.3	124.9	119.7	116.7	116.0
102.5°	466.2	311.5	217.1	168.0	145.0	132.3	124.2	119.0	116.0	115.2
105°	462.4	312.3	218.6	168.8	145.0	131.6	123.4	117.5	114.5	113.7
107.5°	458.7	312.3	220.1	169.5	145.0	130.8	121.9	116.0	113.0	112.3
110°	455.0	313.7	222.3	171.7	145.0	130.1	120.4	114.5	110.8	110.8



REPORT NUMBER: P256802

CATALOG NUMBER: ULA-A6-D-U-ASYM-VMx-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	451.3	314.5	225.3	173.2	145.7	128.6	118.2	112.3	108.5	108.5
115°	446.8	316.0	228.2	174.7	145.7	127.9	116.7	110.0	106.3	106.3
117.5°	442.4	317.5	230.5	176.9	146.5	127.1	115.2	107.8	104.1	104.1
120°	437.2	318.9	233.4	179.2	147.2	126.4	113.7	105.6	102.6	101.9
122.5°	432.0	318.9	236.4	182.9	147.9	125.6	112.3	104.1	100.4	99.6
125°	425.3	318.9	238.7	184.4	148.7	125.6	110.8	101.9	98.1	97.4
127.5°	417.8	318.2	240.9	185.9	148.7	124.9	109.3	100.4	95.9	95.9
130°	408.9	316.0	241.6	187.4	149.4	124.2	108.5	98.9	94.4	93.7
132.5°	400.0	313.0	241.6	188.8	150.2	124.2	107.1	97.4	92.9	92.2
135°	387.3	307.8	240.1	188.8	150.2	124.2	106.3	96.7	91.4	91.4
137.5°	374.7	301.8	237.9	187.4	150.2	123.4	106.3	95.9	90.7	90.0
140°	360.6	293.7	234.2	186.6	149.4	123.4	105.6	95.2	90.0	89.2
142.5°	345.7	285.5	230.5	185.1	149.4	123.4	105.6	95.2	90.0	89.2
145°	330.8	276.6	226.0	182.9	147.9	123.4	105.6	95.2	90.0	89.2
147.5°	315.2	266.9	220.8	179.2	147.2	123.4	106.3	95.2	90.7	90.0
150°	298.9	255.0	214.1	175.5	145.7	122.7	106.3	95.9	91.4	90.7
152.5°	282.5	243.1	205.9	171.0	144.2	122.7	107.1	97.4	92.9	92.2
155°	264.7	231.2	198.5	167.3	142.7	123.4	109.3	99.6	95.9	95.2
157.5°	248.3	219.3	191.1	163.6	142.0	124.2	111.5	102.6	98.9	98.1
160°	232.0	207.4	182.9	159.8	140.5	124.9	113.0	105.6	101.9	101.9
162.5°	215.6	194.8	173.2	154.6	138.3	124.9	115.2	108.5	104.8	104.8
165°	199.2	181.4	165.0	149.4	136.1	125.6	116.7	111.5	108.5	107.8
167.5°	185.1	171.0	157.6	145.7	134.6	126.4	119.0	114.5	112.3	112.3
170°	171.7	162.1	151.7	142.7	134.6	127.9	121.9	119.0	116.7	116.7
172.5°	162.1	155.4	147.9	141.3	135.3	130.1	126.4	124.2	122.7	121.9
175°	155.4	150.9	145.7	142.0	138.3	134.6	132.3	131.6	130.8	130.8
177.5°	152.4	149.4	147.2	145.0	143.5	142.0	141.3	140.5	140.5	139.8
180°	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4	152.4

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