

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: P256782

Luminaire Tested: **ULA-A7-D-U-ASYM-VMx-7027-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256782
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-A7-D-U-ASYM-VMx-7027-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (60) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5833.5 lumens
Efficiency: N/A
Efficacy: 103.8 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): 56.2
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



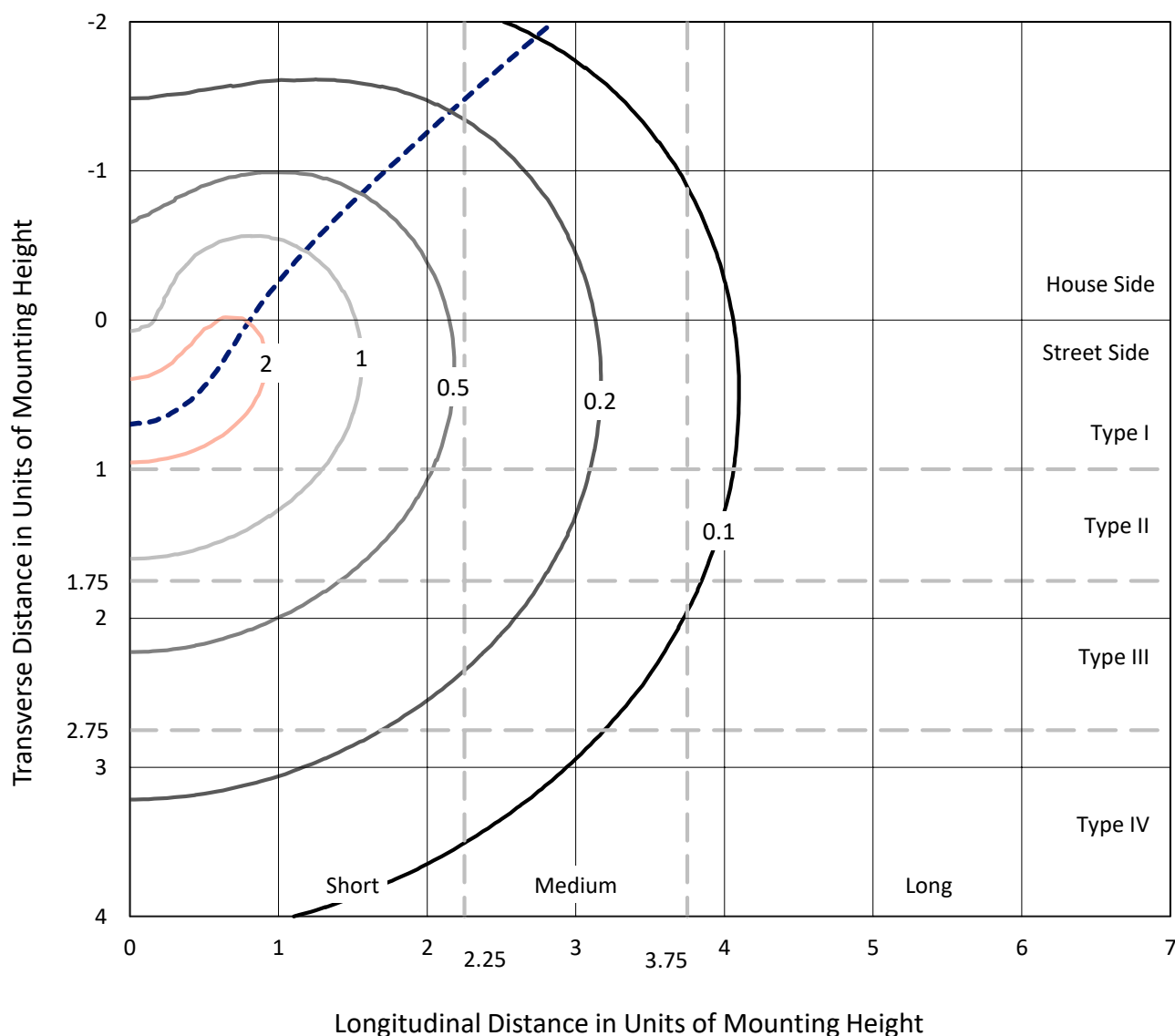
REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

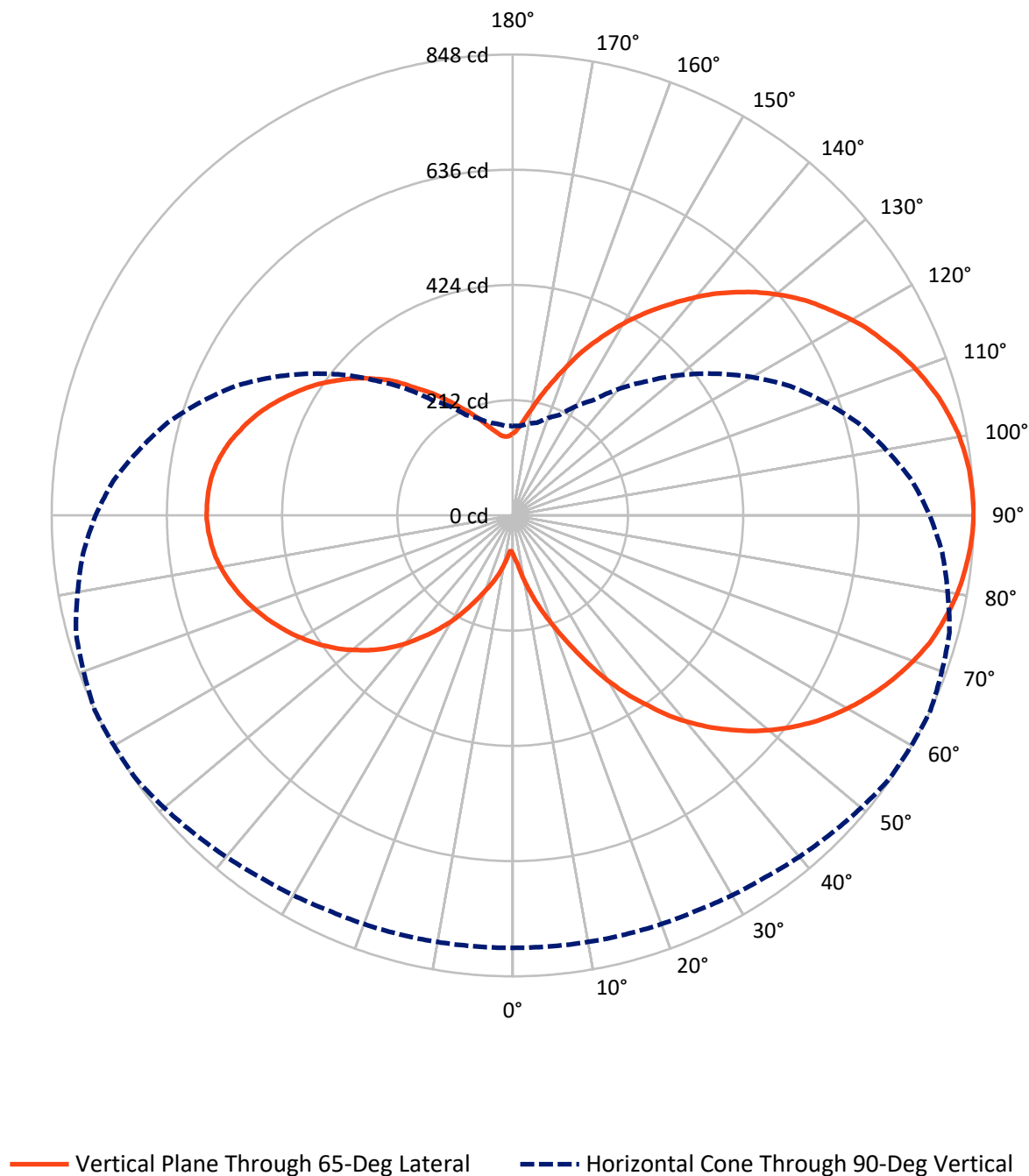


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type - Short - Non-Cutoff

REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

Luminous Intensity Polar Plot



REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

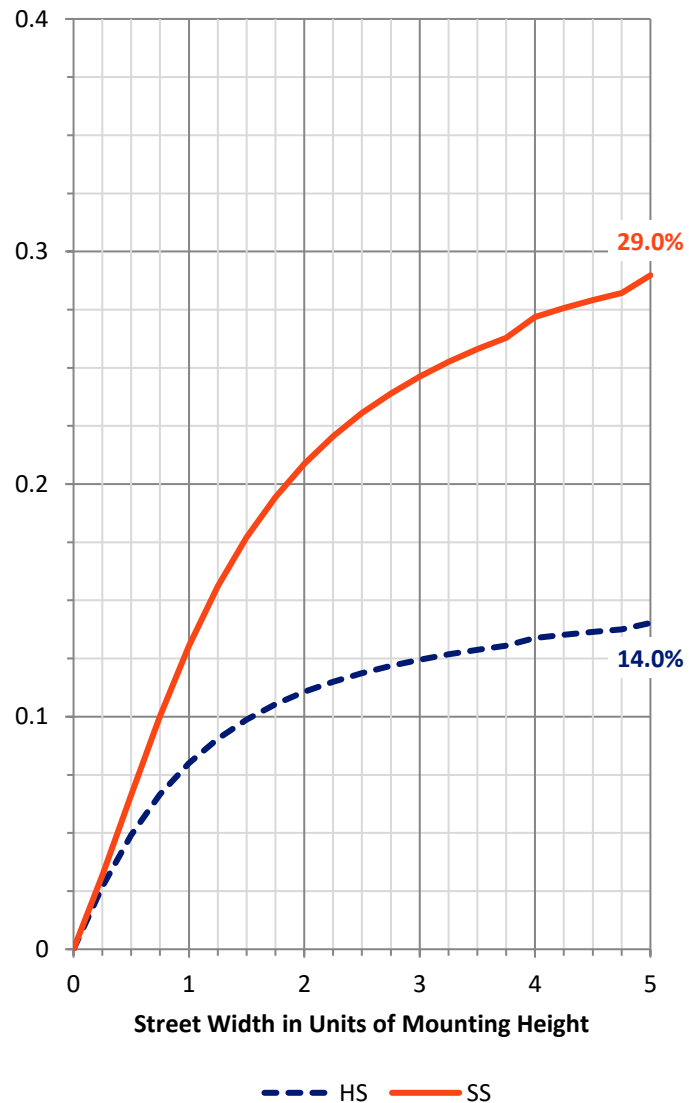
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	915.1	961.1	1876.2
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1956.4	2000.9	3957.3
	% Fixture	33.5	34.3	67.8
Total	Lumens	2871.5	2962.0	5833.5
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.1
10°-20°	39.7	0.7
20°-30°	100.1	1.7
30°-40°	195.1	3.3
40°-50°	309.5	5.3
50°-60°	424.7	7.3
60°-70°	528.2	9.1
70°-80°	609.9	10.5
80°-90°	655.9	11.2
90°-100°	658.4	11.3
100°-110°	614.2	10.5
110°-120°	532.9	9.1
120°-130°	431.0	7.4
130°-140°	319.4	5.5
140°-150°	211.5	3.6
150°-160°	122.4	2.1
160°-170°	56.9	1.0
170°-180°	15.3	0.3
0°-90°	2871.5	49.2
0°-180°	5833.5	100.0

Coefficient of Utilization



REPORT NUMBER: P256782

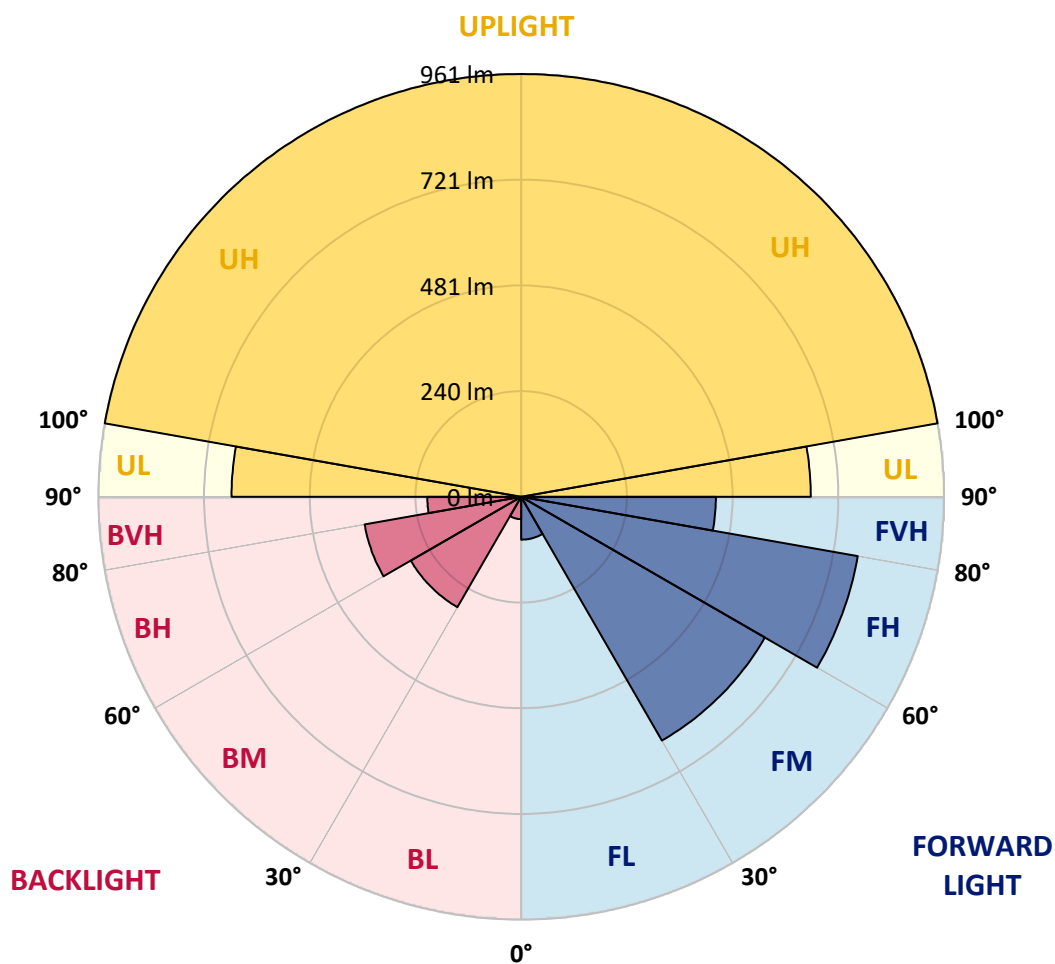
CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.4	1.7			
FM	(30°-60°)	639.7	11.0			
FH	(60°-80°)	776.8	13.3			G1/1800
FVH	(80°-90°)	442.5	7.6			G3/500
BL	(0°-30°)	50.7	0.9	B0/110		
BM	(30°-60°)	289.6	5.0	B1/1000		
BH	(60°-80°)	361.4	6.2	B1/500		G1/500
BVH	(80°-90°)	213.4	3.7			G2/225
UL	(90°-100°)	658.4	11.3		U4/1000	
UH	(100°-180°)	961.1	16.5		U4/1000	

BUG Rating: B1-U5-G3

Type Short





REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
2.5°	87.1	84.6	84.6	83.4	83.4	82.1	80.9	79.7	77.2	74.7	73.4
5°	104.5	103.3	103.3	100.8	98.3	95.8	92.1	88.4	84.6	79.7	78.4
7.5°	124.5	123.2	123.2	119.5	117.0	113.3	109.5	104.5	99.6	94.6	92.1
10°	144.4	143.1	143.1	140.6	138.1	133.2	128.2	124.5	117.0	110.8	108.3
12.5°	165.5	163.0	163.0	160.5	159.3	155.6	150.6	145.6	136.9	129.4	125.7
15°	185.4	184.2	184.2	183.0	181.7	178.0	173.0	168.0	159.3	150.6	145.6
17.5°	207.8	206.6	205.4	205.4	205.4	201.6	197.9	192.9	183.0	171.8	166.8
20°	232.7	230.2	230.2	231.5	231.5	229.0	225.3	219.0	209.1	196.6	189.2
22.5°	258.9	257.6	258.9	258.9	260.1	258.9	255.1	248.9	239.0	224.0	215.3
25°	287.5	286.3	288.7	290.0	292.5	293.7	290.0	282.5	271.3	253.9	243.9
27.5°	322.3	321.1	322.3	327.3	328.6	329.8	327.3	321.1	307.4	287.5	275.1
30°	353.5	353.5	355.9	359.7	363.4	365.9	363.4	358.4	343.5	321.1	307.4
32.5°	385.8	387.1	388.3	393.3	398.3	402.0	399.5	395.8	378.4	357.2	339.8
35°	420.7	421.9	421.9	428.1	434.4	436.8	438.1	429.4	415.7	389.6	370.9
37.5°	455.5	454.3	455.5	461.7	468.0	471.7	472.9	468.0	450.5	421.9	403.2
40°	485.4	485.4	487.9	494.1	500.3	505.3	506.5	500.3	484.1	453.0	433.1
42.5°	516.5	516.5	519.0	524.0	531.4	536.4	538.9	532.7	514.0	484.1	461.7
45°	545.1	545.1	547.6	553.8	561.3	566.3	570.0	562.5	543.9	512.8	491.6
47.5°	572.5	573.7	575.0	580.0	588.7	593.7	598.6	592.4	572.5	537.7	516.5
50°	598.6	599.9	601.1	607.4	613.6	619.8	626.0	619.8	601.1	565.0	541.4
52.5°	622.3	623.5	626.0	628.5	637.2	644.7	650.9	645.9	624.8	588.7	563.8
55°	647.2	647.2	648.4	650.9	659.6	668.3	675.8	670.8	649.7	612.3	587.4
57.5°	668.3	668.3	669.6	672.1	679.5	688.2	697.0	693.2	672.1	633.5	608.6
60°	687.0	687.0	688.2	690.7	698.2	709.4	718.1	714.4	693.2	653.4	628.5
62.5°	705.7	705.7	706.9	709.4	716.9	728.1	738.0	734.3	713.1	673.3	647.2
65°	721.9	721.9	721.9	724.3	733.1	745.5	755.5	753.0	730.6	692.0	664.6
67.5°	736.8	736.8	736.8	738.0	748.0	760.4	772.9	770.4	749.2	709.4	680.8
70°	751.7	749.2	751.7	751.7	761.7	775.4	787.8	786.6	765.4	725.6	697.0
72.5°	762.9	761.7	762.9	765.4	774.1	787.8	801.5	801.5	780.3	739.3	711.9
75°	771.6	771.6	771.6	774.1	784.1	799.0	812.7	812.7	792.8	751.7	724.3
77.5°	780.3	780.3	781.6	782.8	792.8	807.7	823.9	822.7	804.0	762.9	736.8
80°	786.6	785.3	786.6	790.3	799.0	815.2	831.4	831.4	812.7	772.9	745.5
82.5°	791.5	790.3	791.5	795.3	804.0	821.4	837.6	837.6	820.2	781.6	754.2
85°	794.0	794.0	795.3	799.0	807.7	825.2	841.3	842.6	826.4	787.8	760.4
87.5°	795.3	795.3	796.5	801.5	810.2	826.4	843.8	846.3	830.1	790.3	764.2
90°	795.3	795.3	797.8	801.5	811.5	827.6	845.1	847.6	831.4	792.8	766.7
92.5°	795.3	794.0	797.8	801.5	810.2	826.4	843.8	846.3	831.4	792.8	766.7
95°	792.8	791.5	795.3	799.0	807.7	823.9	840.1	843.8	828.9	791.5	764.2
97.5°	787.8	787.8	790.3	795.3	804.0	818.9	836.4	838.8	823.9	786.6	760.4
100°	782.8	782.8	785.3	789.1	797.8	814.0	828.9	832.6	815.2	780.3	753.0
102.5°	776.6	776.6	777.9	781.6	791.5	806.5	820.2	822.7	807.7	770.4	744.3
105°	767.9	766.7	769.1	772.9	781.6	796.5	810.2	812.7	795.3	759.2	733.1
107.5°	756.7	756.7	756.7	761.7	770.4	785.3	797.8	799.0	781.6	745.5	718.1
110°	745.5	745.5	745.5	749.2	759.2	772.9	785.3	785.3	766.7	730.6	705.7



REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	733.1	731.8	731.8	735.5	745.5	759.2	771.6	769.1	750.5	714.4	689.5
115°	718.1	718.1	716.9	720.6	731.8	744.3	755.5	751.7	734.3	697.0	672.1
117.5°	703.2	701.9	701.9	705.7	715.6	729.3	739.3	735.5	715.6	679.5	654.6
120°	687.0	685.8	684.5	688.2	699.4	711.9	720.6	715.6	694.5	659.6	636.0
122.5°	668.3	667.1	667.1	670.8	682.0	694.5	701.9	694.5	675.8	639.7	616.1
125°	648.4	649.7	648.4	652.2	662.1	675.8	682.0	674.6	654.6	618.6	594.9
127.5°	628.5	628.5	627.3	632.2	642.2	654.6	660.9	652.2	632.2	596.2	573.7
130°	607.4	607.4	606.1	611.1	621.0	632.2	636.0	627.3	607.4	572.5	550.1
132.5°	583.7	584.9	584.9	589.9	598.6	607.4	612.3	602.4	582.5	548.9	526.5
135°	561.3	560.1	561.3	565.0	575.0	582.5	583.7	575.0	556.3	522.7	501.6
137.5°	535.2	536.4	536.4	540.1	548.9	556.3	557.6	547.6	528.9	496.6	475.4
140°	510.3	510.3	512.8	515.3	521.5	527.7	527.7	517.7	500.3	468.0	448.0
142.5°	484.1	484.1	485.4	490.4	495.3	499.1	497.8	487.9	470.4	439.3	421.9
145°	459.2	459.2	460.5	464.2	468.0	470.4	468.0	459.2	441.8	410.7	394.5
147.5°	435.6	434.4	436.8	439.3	441.8	443.1	440.6	430.6	412.0	385.8	368.4
150°	410.7	410.7	410.7	414.4	415.7	415.7	412.0	402.0	384.6	358.4	343.5
152.5°	385.8	384.6	385.8	387.1	388.3	387.1	382.1	372.1	355.9	332.3	318.6
155°	359.7	359.7	360.9	360.9	360.9	359.7	354.7	343.5	328.6	307.4	291.2
157.5°	334.8	334.8	334.8	334.8	334.8	332.3	326.1	316.1	298.7	280.0	270.1
160°	309.9	309.9	308.7	307.4	306.2	301.2	296.2	286.3	273.8	257.6	248.9
162.5°	282.5	281.3	281.3	280.0	278.8	275.1	268.8	260.1	248.9	235.2	227.8
165°	257.6	256.4	255.1	255.1	252.6	248.9	243.9	236.5	226.5	214.1	207.8
167.5°	235.2	234.0	232.7	232.7	230.2	225.3	220.3	214.1	205.4	195.4	190.4
170°	215.3	214.1	212.8	211.6	209.1	205.4	200.4	194.2	187.9	180.5	175.5
172.5°	195.4	194.2	192.9	192.9	190.4	186.7	183.0	178.0	173.0	166.8	164.3
175°	176.7	178.0	176.7	175.5	174.2	170.5	168.0	164.3	161.8	158.1	155.6
177.5°	161.8	163.0	163.0	161.8	160.5	158.1	156.8	154.3	153.1	150.6	149.3
180°	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3



REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
2.5°	72.2	68.5	66.0	62.2	58.5	56.0	53.5	51.0	49.8	49.8
5°	74.7	70.9	66.0	61.0	57.3	52.3	49.8	47.3	46.0	46.0
7.5°	88.4	83.4	77.2	70.9	66.0	59.7	56.0	53.5	52.3	52.3
10°	103.3	97.1	89.6	82.1	75.9	69.7	64.7	61.0	59.7	59.7
12.5°	120.7	112.0	103.3	93.3	85.9	77.2	72.2	68.5	67.2	66.0
15°	139.4	128.2	117.0	104.5	94.6	85.9	78.4	73.4	72.2	72.2
17.5°	159.3	144.4	130.7	115.7	103.3	90.9	83.4	77.2	74.7	74.7
20°	180.5	163.0	144.4	126.9	110.8	97.1	85.9	79.7	75.9	75.9
22.5°	205.4	184.2	160.5	139.4	120.7	103.3	89.6	80.9	77.2	75.9
25°	231.5	205.4	179.2	154.3	130.7	109.5	94.6	84.6	78.4	78.4
27.5°	260.1	230.2	199.1	169.3	140.6	117.0	98.3	87.1	80.9	79.7
30°	291.2	256.4	220.3	184.2	151.8	124.5	103.3	89.6	83.4	82.1
32.5°	321.1	281.3	240.2	200.4	163.0	130.7	108.3	93.3	85.9	84.6
35°	353.5	308.7	261.4	216.6	174.2	138.1	112.0	95.8	88.4	87.1
37.5°	383.3	334.8	281.3	231.5	185.4	145.6	117.0	99.6	90.9	89.6
40°	412.0	360.9	303.7	247.7	196.6	153.1	122.0	103.3	93.3	92.1
42.5°	439.3	385.8	324.8	262.6	206.6	160.5	126.9	107.0	97.1	95.8
45°	466.7	408.2	344.7	277.5	217.8	166.8	131.9	109.5	100.8	98.3
47.5°	491.6	430.6	363.4	292.5	227.8	174.2	135.7	113.3	103.3	102.1
50°	515.3	453.0	380.8	307.4	237.7	180.5	140.6	117.0	107.0	105.8
52.5°	537.7	472.9	399.5	322.3	246.4	186.7	145.6	120.7	110.8	109.5
55°	558.8	492.9	415.7	334.8	256.4	192.9	149.3	125.7	114.5	113.3
57.5°	581.2	511.5	431.9	348.5	265.1	199.1	154.3	129.4	118.2	117.0
60°	598.6	528.9	446.8	359.7	273.8	205.4	159.3	133.2	122.0	120.7
62.5°	618.6	545.1	461.7	372.1	282.5	211.6	164.3	138.1	126.9	125.7
65°	634.7	561.3	475.4	383.3	290.0	216.6	168.0	141.9	130.7	129.4
67.5°	652.2	577.5	489.1	394.5	298.7	222.8	173.0	146.9	135.7	134.4
70°	667.1	591.2	501.6	404.5	307.4	229.0	178.0	150.6	140.6	138.1
72.5°	680.8	606.1	514.0	414.4	317.4	234.0	183.0	155.6	144.4	143.1
75°	693.2	617.3	525.2	423.2	323.6	239.0	186.7	159.3	149.3	146.9
77.5°	705.7	628.5	535.2	431.9	329.8	245.2	191.7	164.3	153.1	151.8
80°	715.6	637.2	543.9	438.1	334.8	248.9	195.4	168.0	156.8	155.6
82.5°	723.1	644.7	551.3	444.3	339.8	252.6	197.9	170.5	159.3	158.1
85°	729.3	650.9	556.3	449.3	344.7	255.1	201.6	173.0	161.8	160.5
87.5°	734.3	654.6	560.1	453.0	346.0	257.6	202.9	175.5	164.3	163.0
90°	736.8	657.1	562.5	454.3	348.5	258.9	204.1	176.7	165.5	164.3
92.5°	735.5	657.1	562.5	455.5	349.7	260.1	205.4	176.7	165.5	164.3
95°	734.3	655.9	561.3	454.3	348.5	260.1	205.4	176.7	165.5	164.3
97.5°	729.3	652.2	558.8	451.8	347.2	258.9	202.9	175.5	164.3	163.0
100°	723.1	644.7	553.8	448.0	344.7	256.4	201.6	173.0	161.8	160.5
102.5°	713.1	637.2	546.4	443.1	339.8	252.6	197.9	170.5	159.3	158.1
105°	701.9	627.3	537.7	435.6	334.8	248.9	194.2	166.8	155.6	154.3
107.5°	690.7	613.6	526.5	426.9	328.6	243.9	190.4	163.0	151.8	150.6
110°	675.8	601.1	515.3	418.2	321.1	237.7	185.4	158.1	148.1	145.6



REPORT NUMBER: P256782

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	659.6	587.4	502.8	407.0	313.6	232.7	181.7	154.3	143.1	141.9
115°	643.4	571.3	489.1	397.0	302.4	226.5	176.7	150.6	139.4	138.1
117.5°	626.0	555.1	474.2	384.6	293.7	220.3	171.8	145.6	134.4	133.2
120°	607.4	538.9	459.2	372.1	285.0	214.1	166.8	141.9	130.7	129.4
122.5°	588.7	521.5	444.3	360.9	276.3	207.8	163.0	136.9	126.9	124.5
125°	568.8	502.8	428.1	347.2	267.6	202.9	158.1	133.2	123.2	122.0
127.5°	547.6	482.9	410.7	333.5	257.6	196.6	154.3	130.7	119.5	118.2
130°	525.2	464.2	394.5	321.1	248.9	190.4	150.6	126.9	115.7	114.5
132.5°	501.6	443.1	377.1	304.9	239.0	184.2	145.6	123.2	113.3	112.0
135°	476.7	421.9	358.4	290.0	229.0	178.0	141.9	120.7	110.8	109.5
137.5°	453.0	399.5	341.0	276.3	220.3	173.0	139.4	118.2	109.5	108.3
140°	425.6	375.9	321.1	262.6	210.3	166.8	135.7	115.7	107.0	105.8
142.5°	399.5	353.5	299.9	248.9	201.6	161.8	133.2	114.5	105.8	104.5
145°	374.6	331.1	282.5	236.5	192.9	156.8	129.4	113.3	105.8	104.5
147.5°	351.0	311.1	266.3	224.0	184.2	151.8	126.9	112.0	104.5	103.3
150°	327.3	287.5	248.9	211.6	176.7	146.9	125.7	110.8	104.5	103.3
152.5°	299.9	267.6	234.0	200.4	169.3	143.1	123.2	110.8	104.5	104.5
155°	278.8	248.9	219.0	189.2	163.0	140.6	123.2	112.0	105.8	105.8
157.5°	257.6	232.7	206.6	180.5	158.1	138.1	123.2	113.3	108.3	108.3
160°	237.7	216.6	194.2	173.0	153.1	136.9	123.2	114.5	110.8	109.5
162.5°	219.0	200.4	181.7	164.3	148.1	134.4	123.2	115.7	112.0	112.0
165°	200.4	185.4	170.5	156.8	144.4	131.9	123.2	118.2	114.5	114.5
167.5°	184.2	173.0	161.8	150.6	140.6	131.9	124.5	119.5	118.2	117.0
170°	171.8	163.0	154.3	145.6	138.1	130.7	125.7	123.2	120.7	120.7
172.5°	160.5	154.3	148.1	141.9	136.9	131.9	129.4	126.9	125.7	125.7
175°	153.1	149.3	145.6	141.9	139.4	135.7	134.4	133.2	131.9	131.9
177.5°	149.3	146.9	145.6	144.4	143.1	141.9	141.9	140.6	140.6	140.6
180°	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3	149.3

(END OF REPORT)