

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: P256783

Luminaire Tested: **ULA-A7-D-U-ASYM-VMx-7030-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256783
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-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: 6140.5 lumens
Efficiency: N/A
Efficacy: 109.3 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



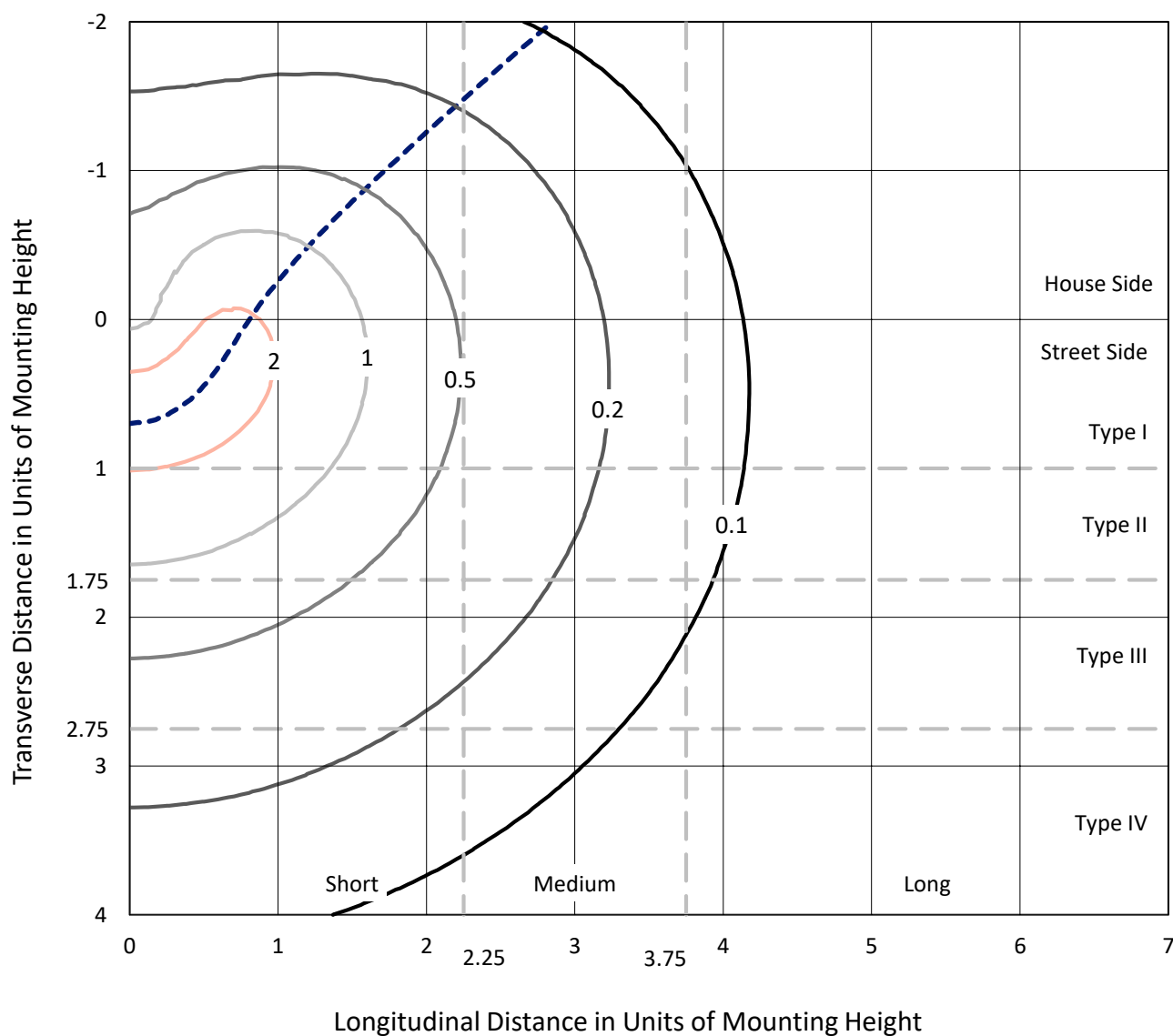
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

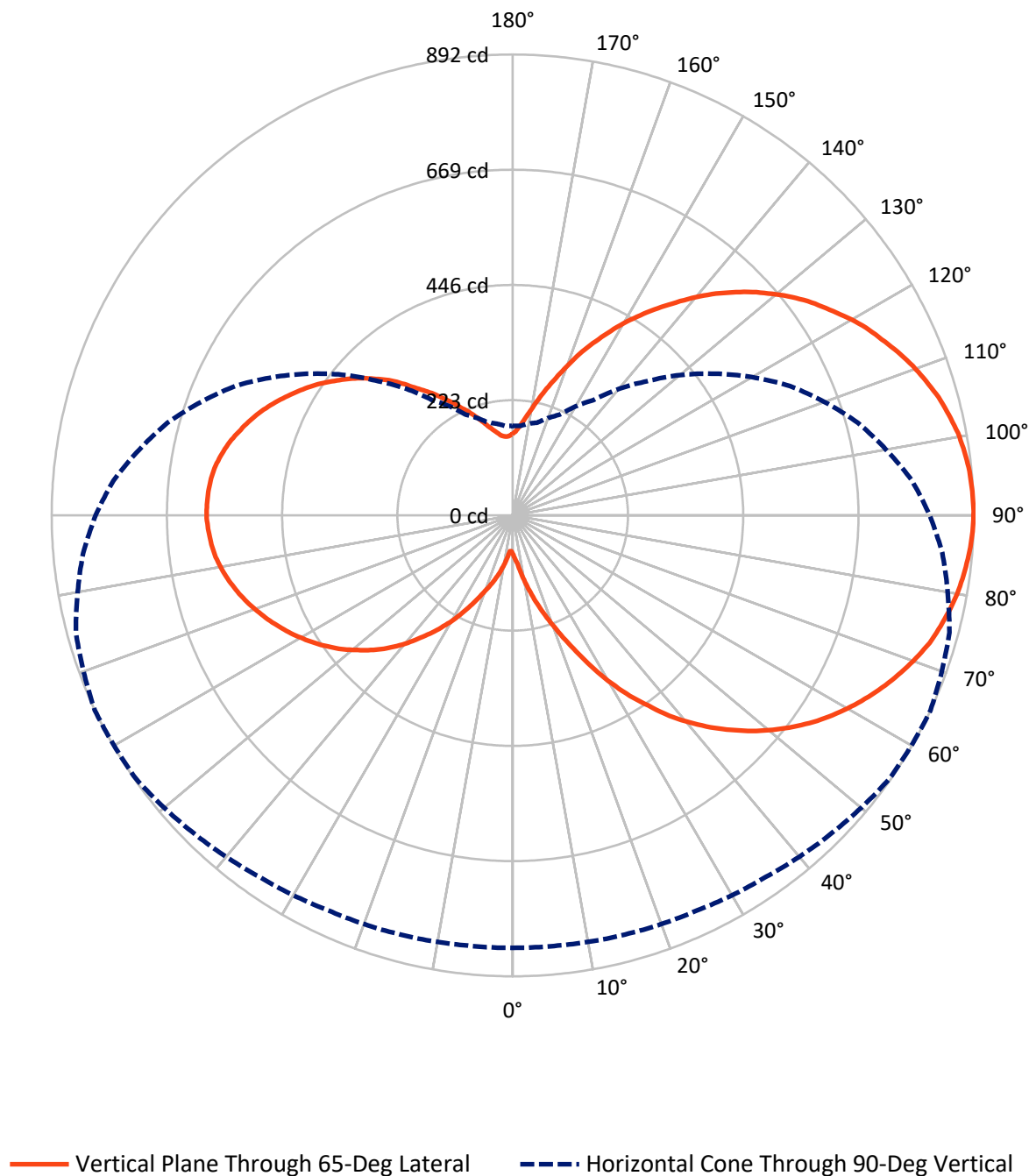


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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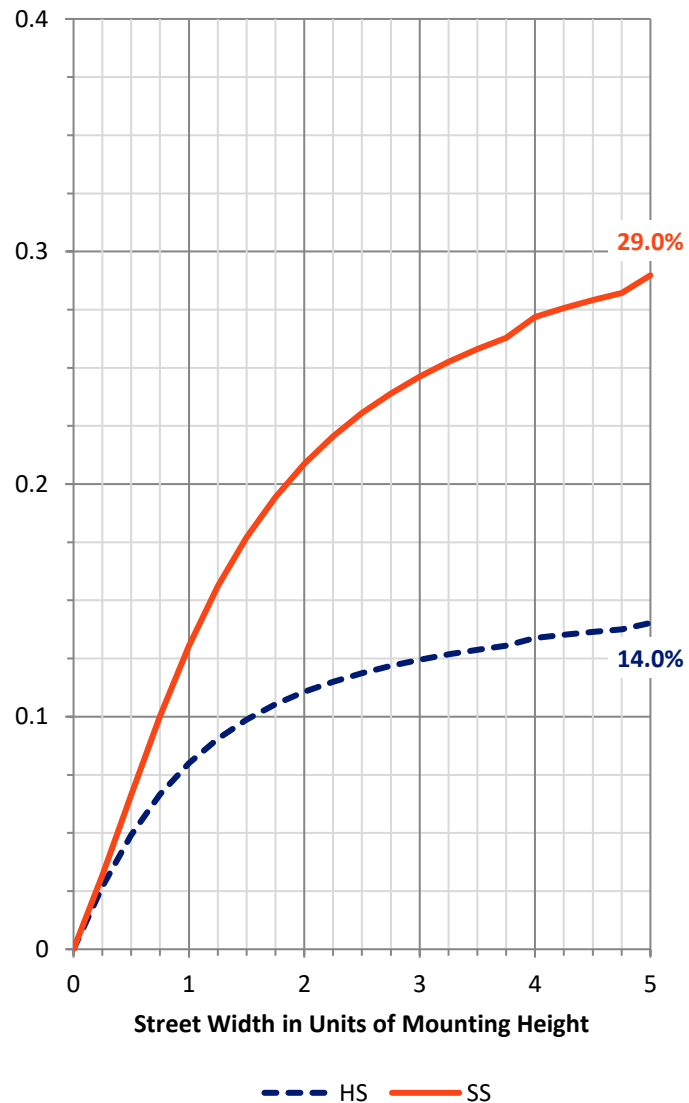
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	963.2	1011.7	1974.9
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2059.4	2106.2	4165.6
	% Fixture	33.5	34.3	67.8
Total	Lumens	3022.6	3117.9	6140.5
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	41.8	0.7
20°-30°	105.3	1.7
30°-40°	205.4	3.3
40°-50°	325.8	5.3
50°-60°	447.0	7.3
60°-70°	556.0	9.1
70°-80°	642.0	10.5
80°-90°	690.5	11.2
90°-100°	693.0	11.3
100°-110°	646.5	10.5
110°-120°	560.9	9.1
120°-130°	453.7	7.4
130°-140°	336.2	5.5
140°-150°	222.6	3.6
150°-160°	128.8	2.1
160°-170°	59.9	1.0
170°-180°	16.1	0.3
0°-90°	3022.6	49.2
0°-180°	6140.5	100.0

Coefficient of Utilization



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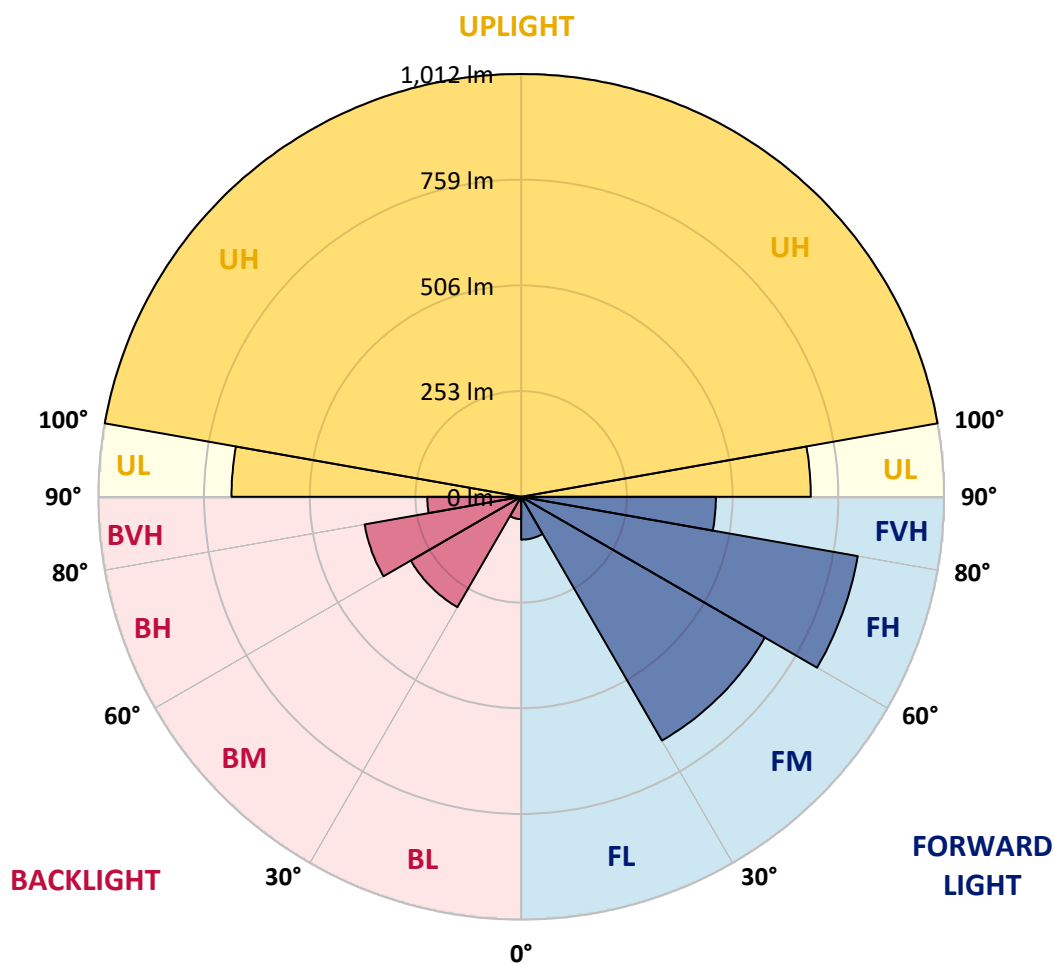
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.5	1.7			
FM	(30°-60°)	673.4	11.0			
FH	(60°-80°)	817.7	13.3			G1/1800
FVH	(80°-90°)	465.8	7.6			G3/500
BL	(0°-30°)	53.3	0.9	B0/110		
BM	(30°-60°)	304.8	5.0	B1/1000		
BH	(60°-80°)	380.4	6.2	B1/500		G1/500
BVH	(80°-90°)	224.7	3.7			G2/225
UL	(90°-100°)	693.0	11.3		U4/1000	
UH	(100°-180°)	1011.7	16.5		U5	

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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	91.7	89.1	89.1	87.8	87.8	86.5	85.2	83.8	81.2	78.6	77.3
5°	110.0	108.7	108.7	106.1	103.5	100.9	96.9	93.0	89.1	83.8	82.5
7.5°	131.0	129.7	129.7	125.8	123.1	119.2	115.3	110.0	104.8	99.6	96.9
10°	152.0	150.7	150.7	148.0	145.4	140.2	134.9	131.0	123.1	116.6	114.0
12.5°	174.2	171.6	171.6	169.0	167.7	163.8	158.5	153.3	144.1	136.2	132.3
15°	195.2	193.9	193.9	192.6	191.3	187.3	182.1	176.9	167.7	158.5	153.3
17.5°	218.8	217.5	216.2	216.2	216.2	212.2	208.3	203.1	192.6	180.8	175.5
20°	245.0	242.4	242.4	243.7	243.7	241.1	237.1	230.6	220.1	207.0	199.1
22.5°	272.5	271.2	272.5	272.5	273.8	272.5	268.6	262.0	251.5	235.8	226.6
25°	302.6	301.3	303.9	305.2	307.9	309.2	305.2	297.4	285.6	267.3	256.8
27.5°	339.3	338.0	339.3	344.5	345.9	347.2	344.5	338.0	323.6	302.6	289.5
30°	372.1	372.1	374.7	378.6	382.5	385.2	382.5	377.3	361.6	338.0	323.6
32.5°	406.1	407.4	408.7	414.0	419.2	423.2	420.5	416.6	398.3	376.0	357.6
35°	442.8	444.1	444.1	450.7	457.2	459.8	461.1	452.0	437.6	410.1	390.4
37.5°	479.5	478.2	479.5	486.0	492.6	496.5	497.8	492.6	474.2	444.1	424.5
40°	510.9	510.9	513.5	520.1	526.6	531.9	533.2	526.6	509.6	476.9	455.9
42.5°	543.7	543.7	546.3	551.5	559.4	564.6	567.3	560.7	541.1	509.6	486.0
45°	573.8	573.8	576.4	583.0	590.8	596.1	600.0	592.2	572.5	539.7	517.5
47.5°	602.6	603.9	605.3	610.5	619.7	624.9	630.1	623.6	602.6	566.0	543.7
50°	630.1	631.5	632.8	639.3	645.9	652.4	659.0	652.4	632.8	594.8	569.9
52.5°	655.0	656.3	659.0	661.6	670.8	678.6	685.2	679.9	657.7	619.7	593.5
55°	681.2	681.2	682.5	685.2	694.3	703.5	711.4	706.1	683.9	644.6	618.4
57.5°	703.5	703.5	704.8	707.4	715.3	724.5	733.6	729.7	707.4	666.8	640.6
60°	723.2	723.2	724.5	727.1	734.9	746.7	755.9	752.0	729.7	687.8	661.6
62.5°	742.8	742.8	744.1	746.7	754.6	766.4	776.9	772.9	750.7	708.7	681.2
65°	759.8	759.8	759.8	762.5	771.6	784.7	795.2	792.6	769.0	728.4	699.6
67.5°	775.6	775.6	775.6	776.9	787.4	800.5	813.6	810.9	788.7	746.7	716.6
70°	791.3	788.7	791.3	791.3	801.8	816.2	829.3	828.0	805.7	763.8	733.6
72.5°	803.1	801.8	803.1	805.7	814.9	829.3	843.7	843.7	821.4	778.2	749.4
75°	812.2	812.2	812.2	814.9	825.3	841.1	855.5	855.5	834.5	791.3	762.5
77.5°	821.4	821.4	822.7	824.0	834.5	850.2	867.3	866.0	846.3	803.1	775.6
80°	828.0	826.7	828.0	831.9	841.1	858.1	875.1	875.1	855.5	813.6	784.7
82.5°	833.2	831.9	833.2	837.1	846.3	864.6	881.7	881.7	863.3	822.7	793.9
85°	835.8	835.8	837.1	841.1	850.2	868.6	885.6	886.9	869.9	829.3	800.5
87.5°	837.1	837.1	838.4	843.7	852.9	869.9	888.2	890.8	873.8	831.9	804.4
90°	837.1	837.1	839.8	843.7	854.2	871.2	889.5	892.2	875.1	834.5	807.0
92.5°	837.1	835.8	839.8	843.7	852.9	869.9	888.2	890.8	875.1	834.5	807.0
95°	834.5	833.2	837.1	841.1	850.2	867.3	884.3	888.2	872.5	833.2	804.4
97.5°	829.3	829.3	831.9	837.1	846.3	862.0	880.4	883.0	867.3	828.0	800.5
100°	824.0	824.0	826.7	830.6	839.8	856.8	872.5	876.4	858.1	821.4	792.6
102.5°	817.5	817.5	818.8	822.7	833.2	848.9	863.3	866.0	850.2	810.9	783.4
105°	808.3	807.0	809.6	813.6	822.7	838.4	852.9	855.5	837.1	799.1	771.6
107.5°	796.5	796.5	796.5	801.8	810.9	826.7	839.8	841.1	822.7	784.7	755.9
110°	784.7	784.7	784.7	788.7	799.1	813.6	826.7	826.7	807.0	769.0	742.8



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	771.6	770.3	770.3	774.3	784.7	799.1	812.2	809.6	790.0	752.0	725.8
115°	755.9	755.9	754.6	758.5	770.3	783.4	795.2	791.3	772.9	733.6	707.4
117.5°	740.2	738.9	738.9	742.8	753.3	767.7	778.2	774.3	753.3	715.3	689.1
120°	723.2	721.8	720.5	724.5	736.3	749.4	758.5	753.3	731.0	694.3	669.4
122.5°	703.5	702.2	702.2	706.1	717.9	731.0	738.9	731.0	711.4	673.4	648.5
125°	682.5	683.9	682.5	686.5	697.0	711.4	717.9	710.1	689.1	651.1	626.2
127.5°	661.6	661.6	660.3	665.5	676.0	689.1	695.6	686.5	665.5	627.5	603.9
130°	639.3	639.3	638.0	643.2	653.7	665.5	669.4	660.3	639.3	602.6	579.1
132.5°	614.4	615.7	615.7	621.0	630.1	639.3	644.6	634.1	613.1	577.7	554.2
135°	590.8	589.5	590.8	594.8	605.3	613.1	614.4	605.3	585.6	550.2	528.0
137.5°	563.3	564.6	564.6	568.6	577.7	585.6	586.9	576.4	556.8	522.7	500.4
140°	537.1	537.1	539.7	542.4	548.9	555.5	555.5	545.0	526.6	492.6	471.6
142.5°	509.6	509.6	510.9	516.2	521.4	525.3	524.0	513.5	495.2	462.5	444.1
145°	483.4	483.4	484.7	488.7	492.6	495.2	492.6	483.4	465.1	432.3	415.3
147.5°	458.5	457.2	459.8	462.5	465.1	466.4	463.8	453.3	433.6	406.1	387.8
150°	432.3	432.3	432.3	436.3	437.6	437.6	433.6	423.2	404.8	377.3	361.6
152.5°	406.1	404.8	406.1	407.4	408.7	407.4	402.2	391.7	374.7	349.8	335.4
155°	378.6	378.6	379.9	379.9	379.9	378.6	373.4	361.6	345.9	323.6	306.6
157.5°	352.4	352.4	352.4	352.4	352.4	349.8	343.2	332.8	314.4	294.8	284.3
160°	326.2	326.2	324.9	323.6	322.3	317.0	311.8	301.3	288.2	271.2	262.0
162.5°	297.4	296.1	296.1	294.8	293.5	289.5	283.0	273.8	262.0	247.6	239.7
165°	271.2	269.9	268.6	268.6	265.9	262.0	256.8	248.9	238.4	225.3	218.8
167.5°	247.6	246.3	245.0	245.0	242.4	237.1	231.9	225.3	216.2	205.7	200.4
170°	226.6	225.3	224.0	222.7	220.1	216.2	210.9	204.4	197.8	190.0	184.7
172.5°	205.7	204.4	203.1	203.1	200.4	196.5	192.6	187.3	182.1	175.5	172.9
175°	186.0	187.3	186.0	184.7	183.4	179.5	176.9	172.9	170.3	166.4	163.8
177.5°	170.3	171.6	171.6	170.3	169.0	166.4	165.1	162.4	161.1	158.5	157.2
180°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	76.0	72.1	69.4	65.5	61.6	59.0	56.3	53.7	52.4	52.4
5°	78.6	74.7	69.4	64.2	60.3	55.0	52.4	49.8	48.5	48.5
7.5°	93.0	87.8	81.2	74.7	69.4	62.9	59.0	56.3	55.0	55.0
10°	108.7	102.2	94.3	86.5	79.9	73.4	68.1	64.2	62.9	62.9
12.5°	127.1	117.9	108.7	98.3	90.4	81.2	76.0	72.1	70.7	69.4
15°	146.7	134.9	123.1	110.0	99.6	90.4	82.5	77.3	76.0	76.0
17.5°	167.7	152.0	137.6	121.8	108.7	95.6	87.8	81.2	78.6	78.6
20°	190.0	171.6	152.0	133.6	116.6	102.2	90.4	83.8	79.9	79.9
22.5°	216.2	193.9	169.0	146.7	127.1	108.7	94.3	85.2	81.2	79.9
25°	243.7	216.2	188.7	162.4	137.6	115.3	99.6	89.1	82.5	82.5
27.5°	273.8	242.4	209.6	178.2	148.0	123.1	103.5	91.7	85.2	83.8
30°	306.6	269.9	231.9	193.9	159.8	131.0	108.7	94.3	87.8	86.5
32.5°	338.0	296.1	252.8	210.9	171.6	137.6	114.0	98.3	90.4	89.1
35°	372.1	324.9	275.1	228.0	183.4	145.4	117.9	100.9	93.0	91.7
37.5°	403.5	352.4	296.1	243.7	195.2	153.3	123.1	104.8	95.6	94.3
40°	433.6	379.9	319.7	260.7	207.0	161.1	128.4	108.7	98.3	96.9
42.5°	462.5	406.1	341.9	276.4	217.5	169.0	133.6	112.7	102.2	100.9
45°	491.3	429.7	362.9	292.1	229.3	175.5	138.9	115.3	106.1	103.5
47.5°	517.5	453.3	382.5	307.9	239.7	183.4	142.8	119.2	108.7	107.4
50°	542.4	476.9	400.9	323.6	250.2	190.0	148.0	123.1	112.7	111.4
52.5°	566.0	497.8	420.5	339.3	259.4	196.5	153.3	127.1	116.6	115.3
55°	588.2	518.8	437.6	352.4	269.9	203.1	157.2	132.3	120.5	119.2
57.5°	611.8	538.4	454.6	366.8	279.0	209.6	162.4	136.2	124.5	123.1
60°	630.1	556.8	470.3	378.6	288.2	216.2	167.7	140.2	128.4	127.1
62.5°	651.1	573.8	486.0	391.7	297.4	222.7	172.9	145.4	133.6	132.3
65°	668.1	590.8	500.4	403.5	305.2	228.0	176.9	149.3	137.6	136.2
67.5°	686.5	607.9	514.9	415.3	314.4	234.5	182.1	154.6	142.8	141.5
70°	702.2	622.3	528.0	425.8	323.6	241.1	187.3	158.5	148.0	145.4
72.5°	716.6	638.0	541.1	436.3	334.1	246.3	192.6	163.8	152.0	150.7
75°	729.7	649.8	552.8	445.4	340.6	251.5	196.5	167.7	157.2	154.6
77.5°	742.8	661.6	563.3	454.6	347.2	258.1	201.8	172.9	161.1	159.8
80°	753.3	670.8	572.5	461.1	352.4	262.0	205.7	176.9	165.1	163.8
82.5°	761.2	678.6	580.4	467.7	357.6	265.9	208.3	179.5	167.7	166.4
85°	767.7	685.2	585.6	472.9	362.9	268.6	212.2	182.1	170.3	169.0
87.5°	772.9	689.1	589.5	476.9	364.2	271.2	213.5	184.7	172.9	171.6
90°	775.6	691.7	592.2	478.2	366.8	272.5	214.9	186.0	174.2	172.9
92.5°	774.3	691.7	592.2	479.5	368.1	273.8	216.2	186.0	174.2	172.9
95°	772.9	690.4	590.8	478.2	366.8	273.8	216.2	186.0	174.2	172.9
97.5°	767.7	686.5	588.2	475.6	365.5	272.5	213.5	184.7	172.9	171.6
100°	761.2	678.6	583.0	471.6	362.9	269.9	212.2	182.1	170.3	169.0
102.5°	750.7	670.8	575.1	466.4	357.6	265.9	208.3	179.5	167.7	166.4
105°	738.9	660.3	566.0	458.5	352.4	262.0	204.4	175.5	163.8	162.4
107.5°	727.1	645.9	554.2	449.4	345.9	256.8	200.4	171.6	159.8	158.5
110°	711.4	632.8	542.4	440.2	338.0	250.2	195.2	166.4	155.9	153.3



REPORT NUMBER: P256783

CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7030-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	694.3	618.4	529.3	428.4	330.1	245.0	191.3	162.4	150.7	149.3
115°	677.3	601.3	514.9	417.9	318.3	238.4	186.0	158.5	146.7	145.4
117.5°	659.0	584.3	499.1	404.8	309.2	231.9	180.8	153.3	141.5	140.2
120°	639.3	567.3	483.4	391.7	300.0	225.3	175.5	149.3	137.6	136.2
122.5°	619.7	548.9	467.7	379.9	290.8	218.8	171.6	144.1	133.6	131.0
125°	598.7	529.3	450.7	365.5	281.7	213.5	166.4	140.2	129.7	128.4
127.5°	576.4	508.3	432.3	351.1	271.2	207.0	162.4	137.6	125.8	124.5
130°	552.8	488.7	415.3	338.0	262.0	200.4	158.5	133.6	121.8	120.5
132.5°	528.0	466.4	397.0	321.0	251.5	193.9	153.3	129.7	119.2	117.9
135°	501.8	444.1	377.3	305.2	241.1	187.3	149.3	127.1	116.6	115.3
137.5°	476.9	420.5	359.0	290.8	231.9	182.1	146.7	124.5	115.3	114.0
140°	448.0	395.6	338.0	276.4	221.4	175.5	142.8	121.8	112.7	111.4
142.5°	420.5	372.1	315.7	262.0	212.2	170.3	140.2	120.5	111.4	110.0
145°	394.3	348.5	297.4	248.9	203.1	165.1	136.2	119.2	111.4	110.0
147.5°	369.4	327.5	280.4	235.8	193.9	159.8	133.6	117.9	110.0	108.7
150°	344.5	302.6	262.0	222.7	186.0	154.6	132.3	116.6	110.0	108.7
152.5°	315.7	281.7	246.3	210.9	178.2	150.7	129.7	116.6	110.0	110.0
155°	293.5	262.0	230.6	199.1	171.6	148.0	129.7	117.9	111.4	111.4
157.5°	271.2	245.0	217.5	190.0	166.4	145.4	129.7	119.2	114.0	114.0
160°	250.2	228.0	204.4	182.1	161.1	144.1	129.7	120.5	116.6	115.3
162.5°	230.6	210.9	191.3	172.9	155.9	141.5	129.7	121.8	117.9	117.9
165°	210.9	195.2	179.5	165.1	152.0	138.9	129.7	124.5	120.5	120.5
167.5°	193.9	182.1	170.3	158.5	148.0	138.9	131.0	125.8	124.5	123.1
170°	180.8	171.6	162.4	153.3	145.4	137.6	132.3	129.7	127.1	127.1
172.5°	169.0	162.4	155.9	149.3	144.1	138.9	136.2	133.6	132.3	132.3
175°	161.1	157.2	153.3	149.3	146.7	142.8	141.5	140.2	138.9	138.9
177.5°	157.2	154.6	153.3	152.0	150.7	149.3	149.3	148.0	148.0	148.0
180°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2

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