

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: P256784

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256784
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-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: 6357 lumens
Efficiency: N/A
Efficacy: 113.1 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

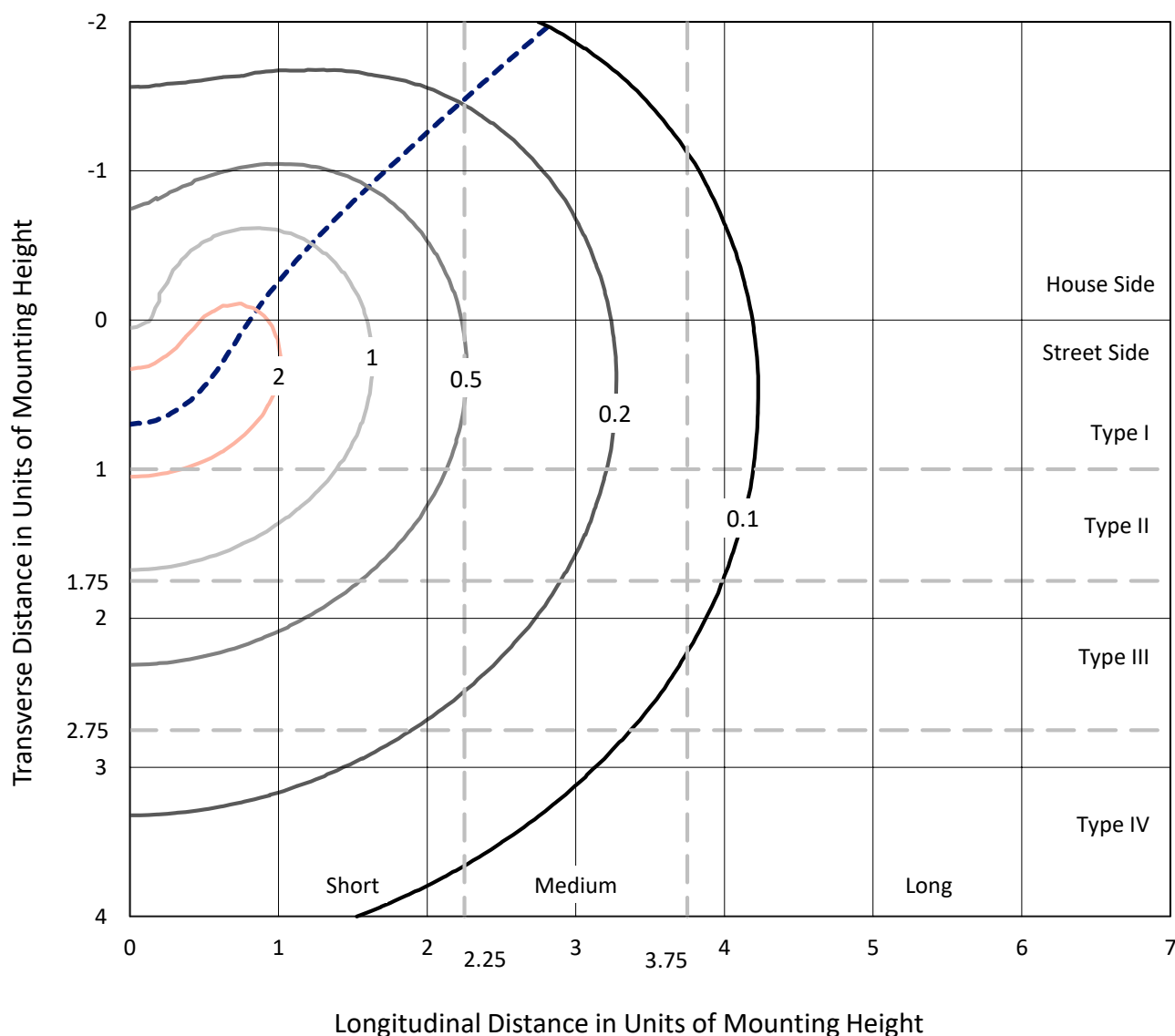


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

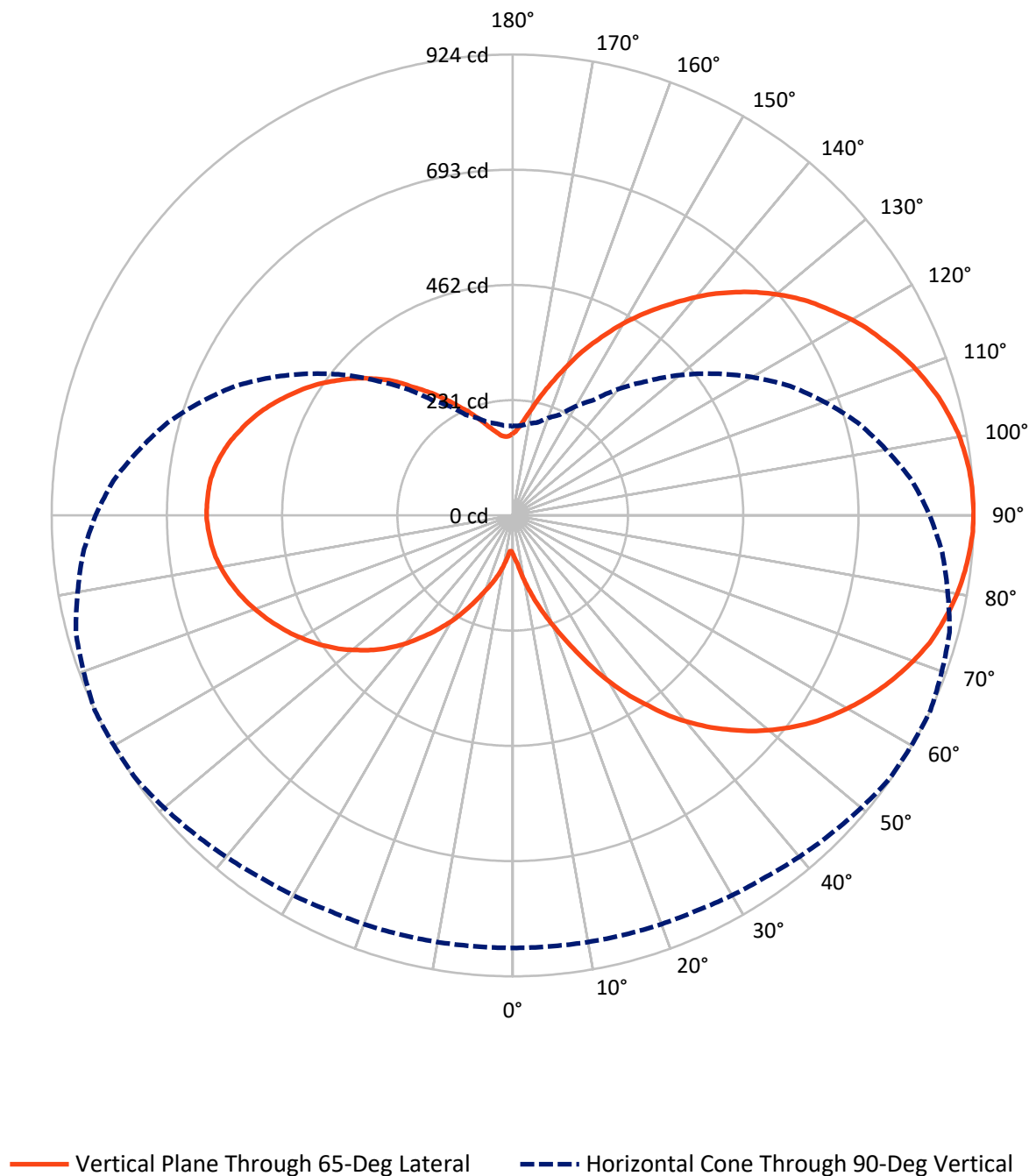


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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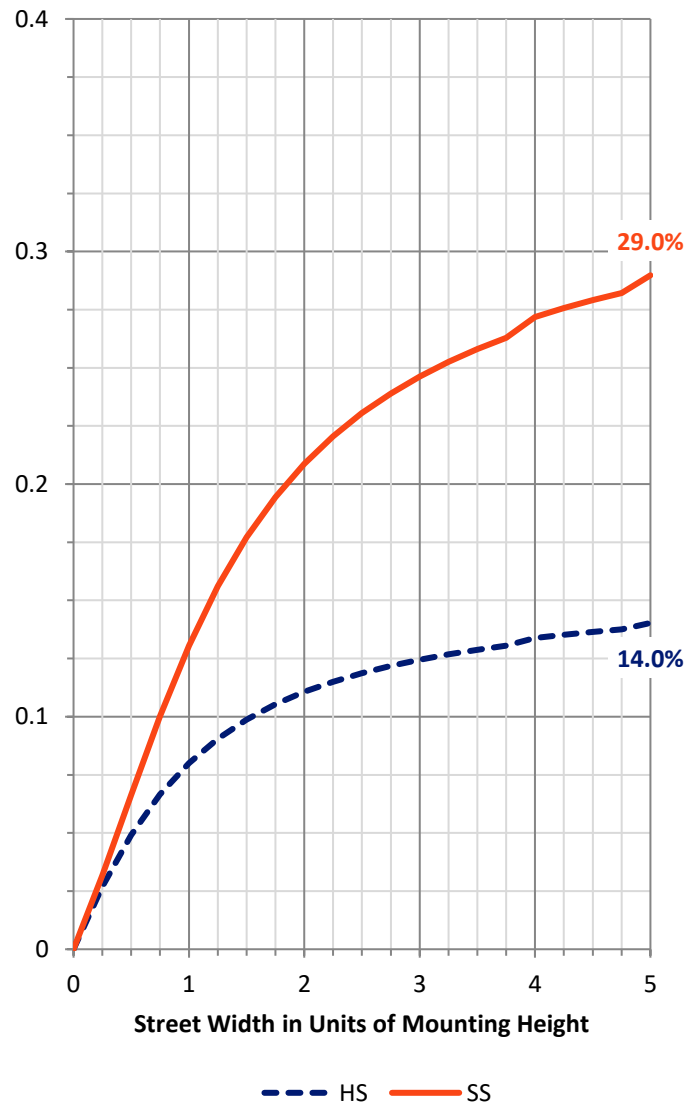
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.2	1047.4	2044.6
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	2132.0	2180.5	4312.4
	% Fixture	33.5	34.3	67.8
Total	Lumens	3129.2	3227.8	6357.0
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	43.3	0.7
20°-30°	109.1	1.7
30°-40°	212.7	3.3
40°-50°	337.3	5.3
50°-60°	462.8	7.3
60°-70°	575.6	9.1
70°-80°	664.7	10.5
80°-90°	714.8	11.2
90°-100°	717.5	11.3
100°-110°	669.3	10.5
110°-120°	580.7	9.1
120°-130°	469.7	7.4
130°-140°	348.1	5.5
140°-150°	230.5	3.6
150°-160°	133.4	2.1
160°-170°	62.0	1.0
170°-180°	16.7	0.3
0°-90°	3129.2	49.2
0°-180°	6357.0	100.0

Coefficient of Utilization



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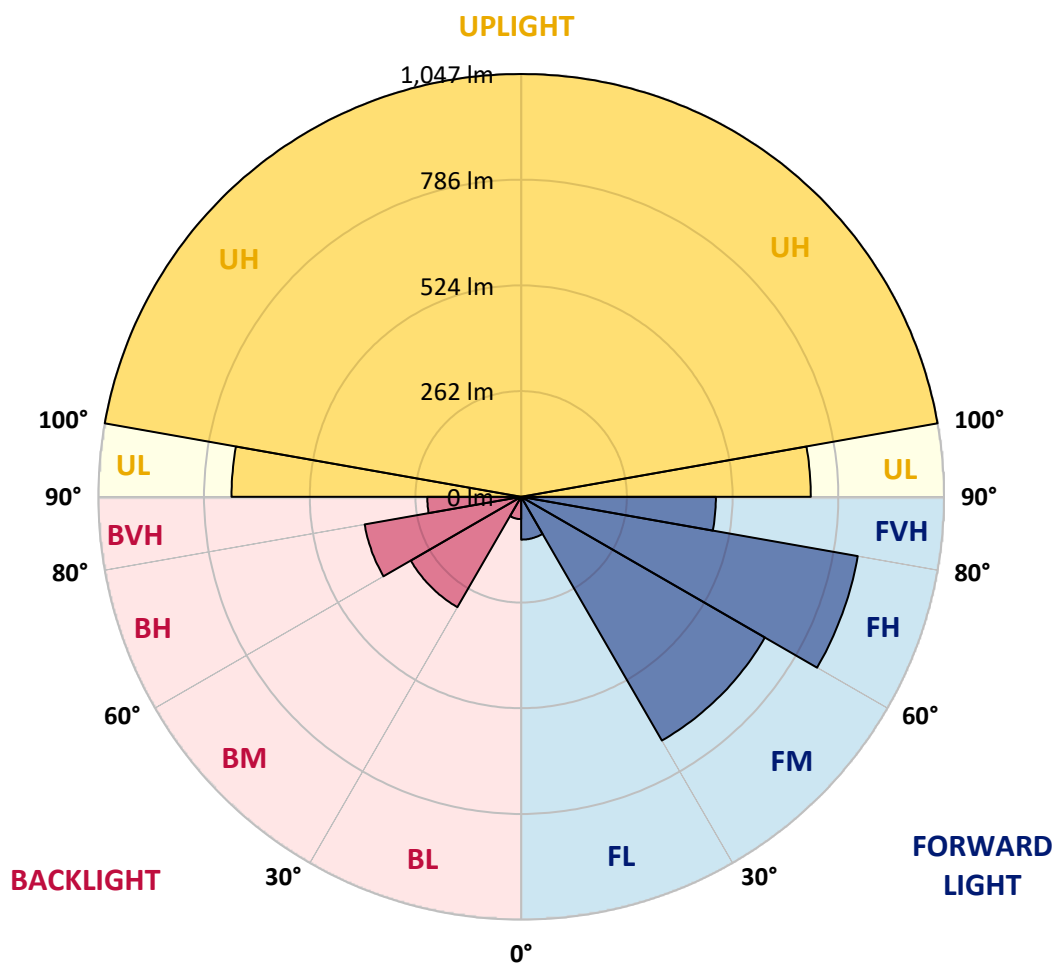
CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.1	1.7			
FM	(30°-60°)	697.1	11.0			
FH	(60°-80°)	846.5	13.3			G1/1800
FVH	(80°-90°)	482.2	7.6			G3/500
BL	(0°-30°)	55.2	0.9	B0/110		
BM	(30°-60°)	315.6	5.0	B1/1000		
BH	(60°-80°)	393.8	6.2	B1/500		G1/500
BVH	(80°-90°)	232.6	3.7			G3/500
UL	(90°-100°)	717.5	11.3		U4/1000	
UH	(100°-180°)	1047.4	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°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	94.9	92.2	92.2	90.9	90.9	89.5	88.2	86.8	84.1	81.4	80.0
5°	113.9	112.6	112.6	109.9	107.1	104.4	100.4	96.3	92.2	86.8	85.4
7.5°	135.6	134.3	134.3	130.2	127.5	123.4	119.4	113.9	108.5	103.1	100.4
10°	157.3	156.0	156.0	153.3	150.5	145.1	139.7	135.6	127.5	120.7	118.0
12.5°	180.4	177.7	177.7	175.0	173.6	169.5	164.1	158.7	149.2	141.1	137.0
15°	202.1	200.7	200.7	199.4	198.0	193.9	188.5	183.1	173.6	164.1	158.7
17.5°	226.5	225.1	223.8	223.8	223.8	219.7	215.6	210.2	199.4	187.2	181.7
20°	253.6	250.9	250.9	252.3	252.3	249.6	245.5	238.7	227.9	214.3	206.2
22.5°	282.1	280.7	282.1	282.1	283.5	282.1	278.0	271.3	260.4	244.1	234.6
25°	313.3	311.9	314.7	316.0	318.7	320.1	316.0	307.9	295.7	276.7	265.8
27.5°	351.3	349.9	351.3	356.7	358.1	359.4	356.7	349.9	335.0	313.3	299.7
30°	385.2	385.2	387.9	392.0	396.0	398.7	396.0	390.6	374.3	349.9	335.0
32.5°	420.4	421.8	423.2	428.6	434.0	438.1	435.4	431.3	412.3	389.2	370.3
35°	458.4	459.8	459.8	466.6	473.3	476.0	477.4	467.9	453.0	424.5	404.2
37.5°	496.4	495.0	496.4	503.2	510.0	514.0	515.4	510.0	491.0	459.8	439.4
40°	528.9	528.9	531.7	538.4	545.2	550.6	552.0	545.2	527.6	493.7	472.0
42.5°	562.8	562.8	565.6	571.0	579.1	584.5	587.3	580.5	560.1	527.6	503.2
45°	594.0	594.0	596.8	603.5	611.7	617.1	621.2	613.0	592.7	558.8	535.7
47.5°	623.9	625.2	626.6	632.0	641.5	646.9	652.4	645.6	623.9	585.9	562.8
50°	652.4	653.7	655.1	661.9	668.6	675.4	682.2	675.4	655.1	615.7	590.0
52.5°	678.1	679.5	682.2	684.9	694.4	702.5	709.3	703.9	680.8	641.5	614.4
55°	705.3	705.3	706.6	709.3	718.8	728.3	736.4	731.0	708.0	667.3	640.2
57.5°	728.3	728.3	729.7	732.4	740.5	750.0	759.5	755.4	732.4	690.3	663.2
60°	748.7	748.7	750.0	752.7	760.9	773.1	782.6	778.5	755.4	712.0	684.9
62.5°	769.0	769.0	770.4	773.1	781.2	793.4	804.3	800.2	777.1	733.7	705.3
65°	786.6	786.6	786.6	789.3	798.8	812.4	823.3	820.5	796.1	754.1	724.2
67.5°	802.9	802.9	802.9	804.3	815.1	828.7	842.2	839.5	816.5	773.1	741.9
70°	819.2	816.5	819.2	819.2	830.0	845.0	858.5	857.2	834.1	790.7	759.5
72.5°	831.4	830.0	831.4	834.1	843.6	858.5	873.4	873.4	850.4	805.6	775.8
75°	840.9	840.9	840.9	843.6	854.4	870.7	885.6	885.6	863.9	819.2	789.3
77.5°	850.4	850.4	851.7	853.1	863.9	880.2	897.8	896.5	876.1	831.4	802.9
80°	857.2	855.8	857.2	861.2	870.7	888.4	906.0	906.0	885.6	842.2	812.4
82.5°	862.6	861.2	862.6	866.7	876.1	895.1	912.8	912.8	893.8	851.7	821.9
85°	865.3	865.3	866.7	870.7	880.2	899.2	916.8	918.2	900.6	858.5	828.7
87.5°	866.7	866.7	868.0	873.4	882.9	900.6	919.5	922.3	904.6	861.2	832.7
90°	866.7	866.7	869.4	873.4	884.3	901.9	920.9	923.6	906.0	863.9	835.5
92.5°	866.7	865.3	869.4	873.4	882.9	900.6	919.5	922.3	906.0	863.9	835.5
95°	863.9	862.6	866.7	870.7	880.2	897.8	915.5	919.5	903.3	862.6	832.7
97.5°	858.5	858.5	861.2	866.7	876.1	892.4	911.4	914.1	897.8	857.2	828.7
100°	853.1	853.1	855.8	859.9	869.4	887.0	903.3	907.3	888.4	850.4	820.5
102.5°	846.3	846.3	847.7	851.7	862.6	878.9	893.8	896.5	880.2	839.5	811.0
105°	836.8	835.5	838.2	842.2	851.7	868.0	882.9	885.6	866.7	827.3	798.8
107.5°	824.6	824.6	824.6	830.0	839.5	855.8	869.4	870.7	851.7	812.4	782.6
110°	812.4	812.4	812.4	816.5	827.3	842.2	855.8	855.8	835.5	796.1	769.0



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	798.8	797.5	797.5	801.6	812.4	827.3	840.9	838.2	817.8	778.5	751.4
115°	782.6	782.6	781.2	785.3	797.5	811.0	823.3	819.2	800.2	759.5	732.4
117.5°	766.3	764.9	764.9	769.0	779.8	794.8	805.6	801.6	779.8	740.5	713.4
120°	748.7	747.3	745.9	750.0	762.2	775.8	785.3	779.8	756.8	718.8	693.0
122.5°	728.3	727.0	727.0	731.0	743.2	756.8	764.9	756.8	736.4	697.1	671.3
125°	706.6	708.0	706.6	710.7	721.5	736.4	743.2	735.1	713.4	674.1	648.3
127.5°	684.9	684.9	683.6	689.0	699.8	713.4	720.2	710.7	689.0	649.6	625.2
130°	661.9	661.9	660.5	665.9	676.8	689.0	693.0	683.6	661.9	623.9	599.5
132.5°	636.1	637.4	637.4	642.9	652.4	661.9	667.3	656.4	634.7	598.1	573.7
135°	611.7	610.3	611.7	615.7	626.6	634.7	636.1	626.6	606.2	569.6	546.6
137.5°	583.2	584.5	584.5	588.6	598.1	606.2	607.6	596.8	576.4	541.1	518.1
140°	556.1	556.1	558.8	561.5	568.3	575.1	575.1	564.2	545.2	510.0	488.3
142.5°	527.6	527.6	528.9	534.4	539.8	543.9	542.5	531.7	512.7	478.8	459.8
145°	500.5	500.5	501.8	505.9	510.0	512.7	510.0	500.5	481.5	447.6	429.9
147.5°	474.7	473.3	476.0	478.8	481.5	482.8	480.1	469.3	448.9	420.4	401.5
150°	447.6	447.6	447.6	451.6	453.0	453.0	448.9	438.1	419.1	390.6	374.3
152.5°	420.4	419.1	420.4	421.8	423.2	421.8	416.4	405.5	387.9	362.1	347.2
155°	392.0	392.0	393.3	393.3	393.3	392.0	386.5	374.3	358.1	335.0	317.4
157.5°	364.8	364.8	364.8	364.8	364.8	362.1	355.3	344.5	325.5	305.2	294.3
160°	337.7	337.7	336.4	335.0	333.6	328.2	322.8	311.9	298.4	280.7	271.3
162.5°	307.9	306.5	306.5	305.2	303.8	299.7	293.0	283.5	271.3	256.3	248.2
165°	280.7	279.4	278.0	278.0	275.3	271.3	265.8	257.7	246.8	233.3	226.5
167.5°	256.3	255.0	253.6	253.6	250.9	245.5	240.1	233.3	223.8	212.9	207.5
170°	234.6	233.3	231.9	230.6	227.9	223.8	218.4	211.6	204.8	196.7	191.2
172.5°	212.9	211.6	210.2	210.2	207.5	203.4	199.4	193.9	188.5	181.7	179.0
175°	192.6	193.9	192.6	191.2	189.9	185.8	183.1	179.0	176.3	172.2	169.5
177.5°	176.3	177.7	177.7	176.3	175.0	172.2	170.9	168.2	166.8	164.1	162.8
180°	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	78.7	74.6	71.9	67.8	63.7	61.0	58.3	55.6	54.3	54.3
5°	81.4	77.3	71.9	66.5	62.4	57.0	54.3	51.5	50.2	50.2
7.5°	96.3	90.9	84.1	77.3	71.9	65.1	61.0	58.3	57.0	57.0
10°	112.6	105.8	97.7	89.5	82.7	76.0	70.5	66.5	65.1	65.1
12.5°	131.6	122.1	112.6	101.7	93.6	84.1	78.7	74.6	73.2	71.9
15°	151.9	139.7	127.5	113.9	103.1	93.6	85.4	80.0	78.7	78.7
17.5°	173.6	157.3	142.4	126.1	112.6	99.0	90.9	84.1	81.4	81.4
20°	196.7	177.7	157.3	138.3	120.7	105.8	93.6	86.8	82.7	82.7
22.5°	223.8	200.7	175.0	151.9	131.6	112.6	97.7	88.2	84.1	82.7
25°	252.3	223.8	195.3	168.2	142.4	119.4	103.1	92.2	85.4	85.4
27.5°	283.5	250.9	217.0	184.5	153.3	127.5	107.1	94.9	88.2	86.8
30°	317.4	279.4	240.1	200.7	165.5	135.6	112.6	97.7	90.9	89.5
32.5°	349.9	306.5	261.8	218.4	177.7	142.4	118.0	101.7	93.6	92.2
35°	385.2	336.4	284.8	236.0	189.9	150.5	122.1	104.4	96.3	94.9
37.5°	417.7	364.8	306.5	252.3	202.1	158.7	127.5	108.5	99.0	97.7
40°	448.9	393.3	330.9	269.9	214.3	166.8	132.9	112.6	101.7	100.4
42.5°	478.8	420.4	354.0	286.2	225.1	175.0	138.3	116.6	105.8	104.4
45°	508.6	444.9	375.7	302.4	237.3	181.7	143.8	119.4	109.9	107.1
47.5°	535.7	469.3	396.0	318.7	248.2	189.9	147.8	123.4	112.6	111.2
50°	561.5	493.7	415.0	335.0	259.0	196.7	153.3	127.5	116.6	115.3
52.5°	585.9	515.4	435.4	351.3	268.5	203.4	158.7	131.6	120.7	119.4
55°	609.0	537.1	453.0	364.8	279.4	210.2	162.8	137.0	124.8	123.4
57.5°	633.4	557.4	470.6	379.8	288.9	217.0	168.2	141.1	128.8	127.5
60°	652.4	576.4	486.9	392.0	298.4	223.8	173.6	145.1	132.9	131.6
62.5°	674.1	594.0	503.2	405.5	307.9	230.6	179.0	150.5	138.3	137.0
65°	691.7	611.7	518.1	417.7	316.0	236.0	183.1	154.6	142.4	141.1
67.5°	710.7	629.3	533.0	429.9	325.5	242.8	188.5	160.0	147.8	146.5
70°	727.0	644.2	546.6	440.8	335.0	249.6	193.9	164.1	153.3	150.5
72.5°	741.9	660.5	560.1	451.6	345.8	255.0	199.4	169.5	157.3	156.0
75°	755.4	672.7	572.3	461.1	352.6	260.4	203.4	173.6	162.8	160.0
77.5°	769.0	684.9	583.2	470.6	359.4	267.2	208.9	179.0	166.8	165.5
80°	779.8	694.4	592.7	477.4	364.8	271.3	212.9	183.1	170.9	169.5
82.5°	788.0	702.5	600.8	484.2	370.3	275.3	215.6	185.8	173.6	172.2
85°	794.8	709.3	606.2	489.6	375.7	278.0	219.7	188.5	176.3	175.0
87.5°	800.2	713.4	610.3	493.7	377.0	280.7	221.1	191.2	179.0	177.7
90°	802.9	716.1	613.0	495.0	379.8	282.1	222.4	192.6	180.4	179.0
92.5°	801.6	716.1	613.0	496.4	381.1	283.5	223.8	192.6	180.4	179.0
95°	800.2	714.7	611.7	495.0	379.8	283.5	223.8	192.6	180.4	179.0
97.5°	794.8	710.7	609.0	492.3	378.4	282.1	221.1	191.2	179.0	177.7
100°	788.0	702.5	603.5	488.3	375.7	279.4	219.7	188.5	176.3	175.0
102.5°	777.1	694.4	595.4	482.8	370.3	275.3	215.6	185.8	173.6	172.2
105°	764.9	683.6	585.9	474.7	364.8	271.3	211.6	181.7	169.5	168.2
107.5°	752.7	668.6	573.7	465.2	358.1	265.8	207.5	177.7	165.5	164.1
110°	736.4	655.1	561.5	455.7	349.9	259.0	202.1	172.2	161.4	158.7



REPORT NUMBER: P256784

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	718.8	640.2	547.9	443.5	341.8	253.6	198.0	168.2	156.0	154.6
115°	701.2	622.5	533.0	432.6	329.6	246.8	192.6	164.1	151.9	150.5
117.5°	682.2	604.9	516.7	419.1	320.1	240.1	187.2	158.7	146.5	145.1
120°	661.9	587.3	500.5	405.5	310.6	233.3	181.7	154.6	142.4	141.1
122.5°	641.5	568.3	484.2	393.3	301.1	226.5	177.7	149.2	138.3	135.6
125°	619.8	547.9	466.6	378.4	291.6	221.1	172.2	145.1	134.3	132.9
127.5°	596.8	526.2	447.6	363.5	280.7	214.3	168.2	142.4	130.2	128.8
130°	572.3	505.9	429.9	349.9	271.3	207.5	164.1	138.3	126.1	124.8
132.5°	546.6	482.8	410.9	332.3	260.4	200.7	158.7	134.3	123.4	122.1
135°	519.4	459.8	390.6	316.0	249.6	193.9	154.6	131.6	120.7	119.4
137.5°	493.7	435.4	371.6	301.1	240.1	188.5	151.9	128.8	119.4	118.0
140°	463.8	409.6	349.9	286.2	229.2	181.7	147.8	126.1	116.6	115.3
142.5°	435.4	385.2	326.9	271.3	219.7	176.3	145.1	124.8	115.3	113.9
145°	408.2	360.8	307.9	257.7	210.2	170.9	141.1	123.4	115.3	113.9
147.5°	382.5	339.1	290.2	244.1	200.7	165.5	138.3	122.1	113.9	112.6
150°	356.7	313.3	271.3	230.6	192.6	160.0	137.0	120.7	113.9	112.6
152.5°	326.9	291.6	255.0	218.4	184.5	156.0	134.3	120.7	113.9	113.9
155°	303.8	271.3	238.7	206.2	177.7	153.3	134.3	122.1	115.3	115.3
157.5°	280.7	253.6	225.1	196.7	172.2	150.5	134.3	123.4	118.0	118.0
160°	259.0	236.0	211.6	188.5	166.8	149.2	134.3	124.8	120.7	119.4
162.5°	238.7	218.4	198.0	179.0	161.4	146.5	134.3	126.1	122.1	122.1
165°	218.4	202.1	185.8	170.9	157.3	143.8	134.3	128.8	124.8	124.8
167.5°	200.7	188.5	176.3	164.1	153.3	143.8	135.6	130.2	128.8	127.5
170°	187.2	177.7	168.2	158.7	150.5	142.4	137.0	134.3	131.6	131.6
172.5°	175.0	168.2	161.4	154.6	149.2	143.8	141.1	138.3	137.0	137.0
175°	166.8	162.8	158.7	154.6	151.9	147.8	146.5	145.1	143.8	143.8
177.5°	162.8	160.0	158.7	157.3	156.0	154.6	154.6	153.3	153.3	153.3
180°	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8

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