

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: P256781

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256781
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-A6-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: 5488 lumens
Efficiency: N/A
Efficacy: 120.6 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



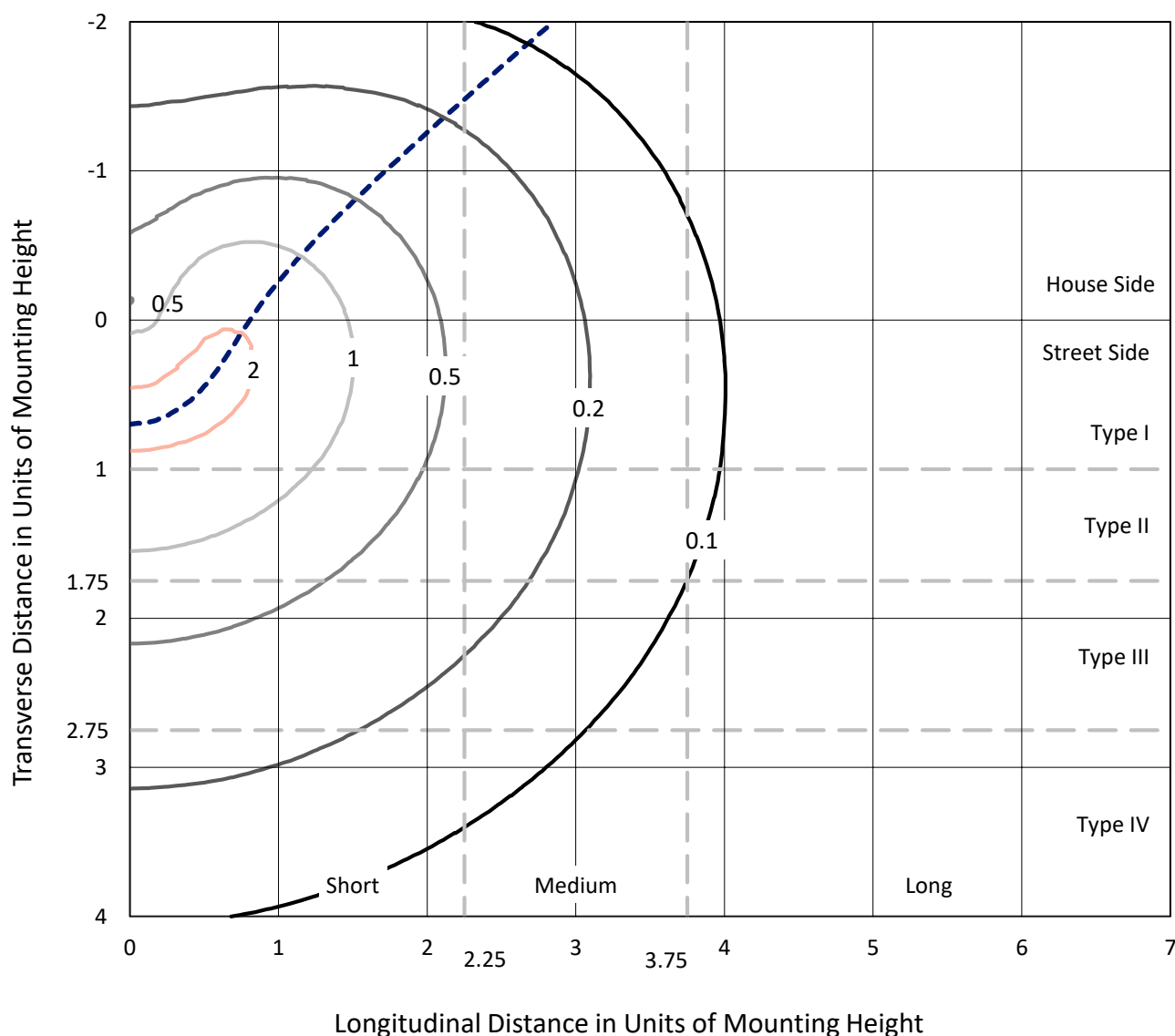
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

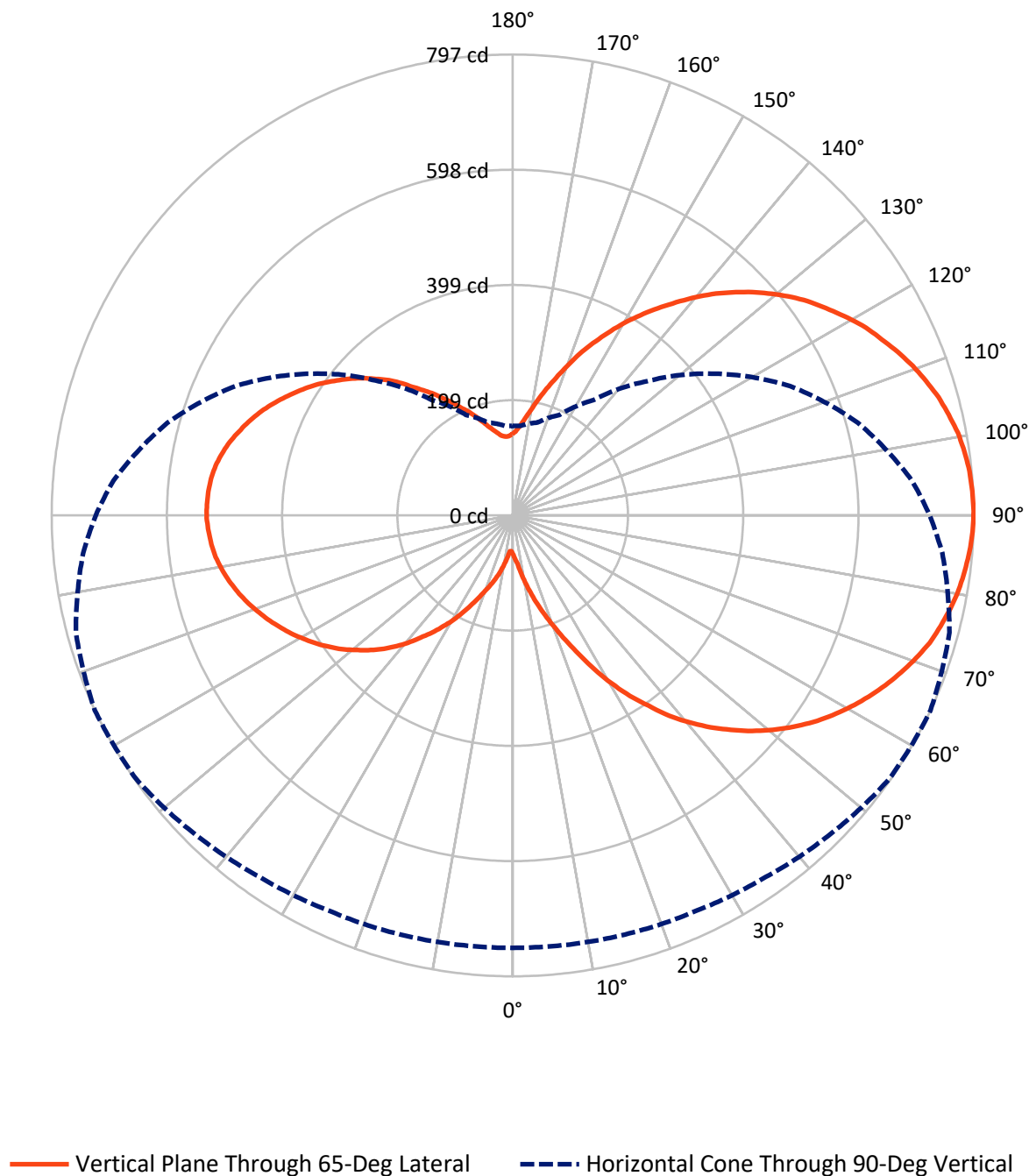


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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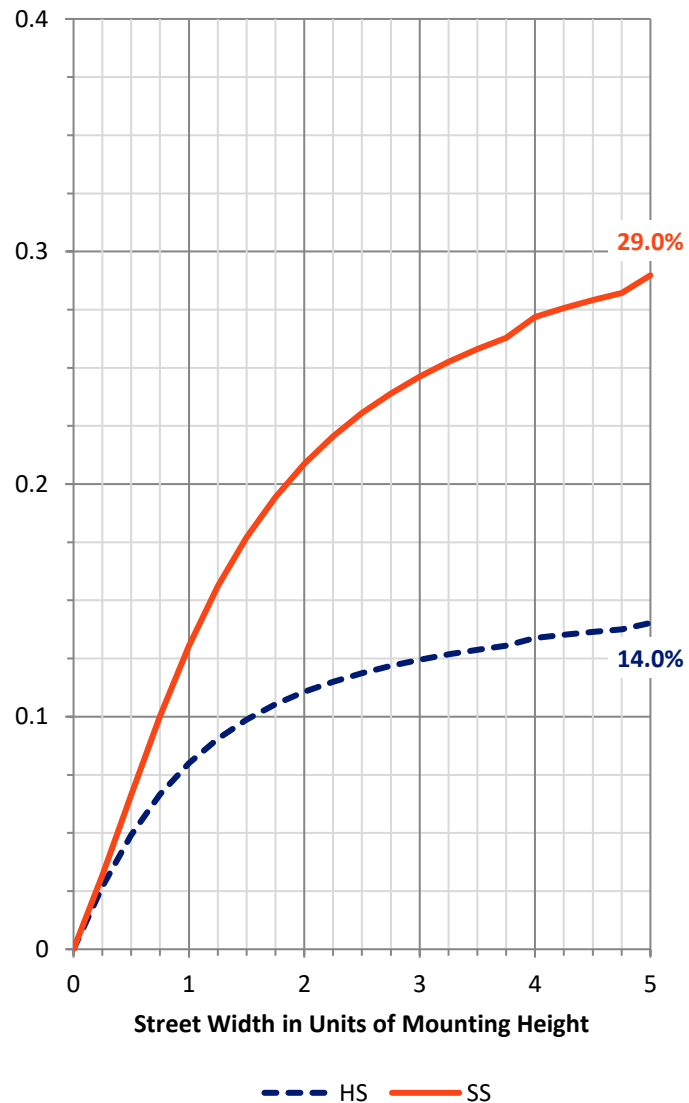
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.9	904.2	1765.1
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1840.6	1882.4	3722.9
	% Fixture	33.5	34.3	67.8
Total	Lumens	2701.4	2786.6	5488.0
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.1
10°-20°	37.4	0.7
20°-30°	94.1	1.7
30°-40°	183.6	3.3
40°-50°	291.1	5.3
50°-60°	399.5	7.3
60°-70°	497.0	9.1
70°-80°	573.8	10.5
80°-90°	617.1	11.2
90°-100°	619.4	11.3
100°-110°	577.8	10.5
110°-120°	501.3	9.1
120°-130°	405.5	7.4
130°-140°	300.5	5.5
140°-150°	199.0	3.6
150°-160°	115.1	2.1
160°-170°	53.5	1.0
170°-180°	14.4	0.3
0°-90°	2701.4	49.2
0°-180°	5488.0	100.0

Coefficient of Utilization



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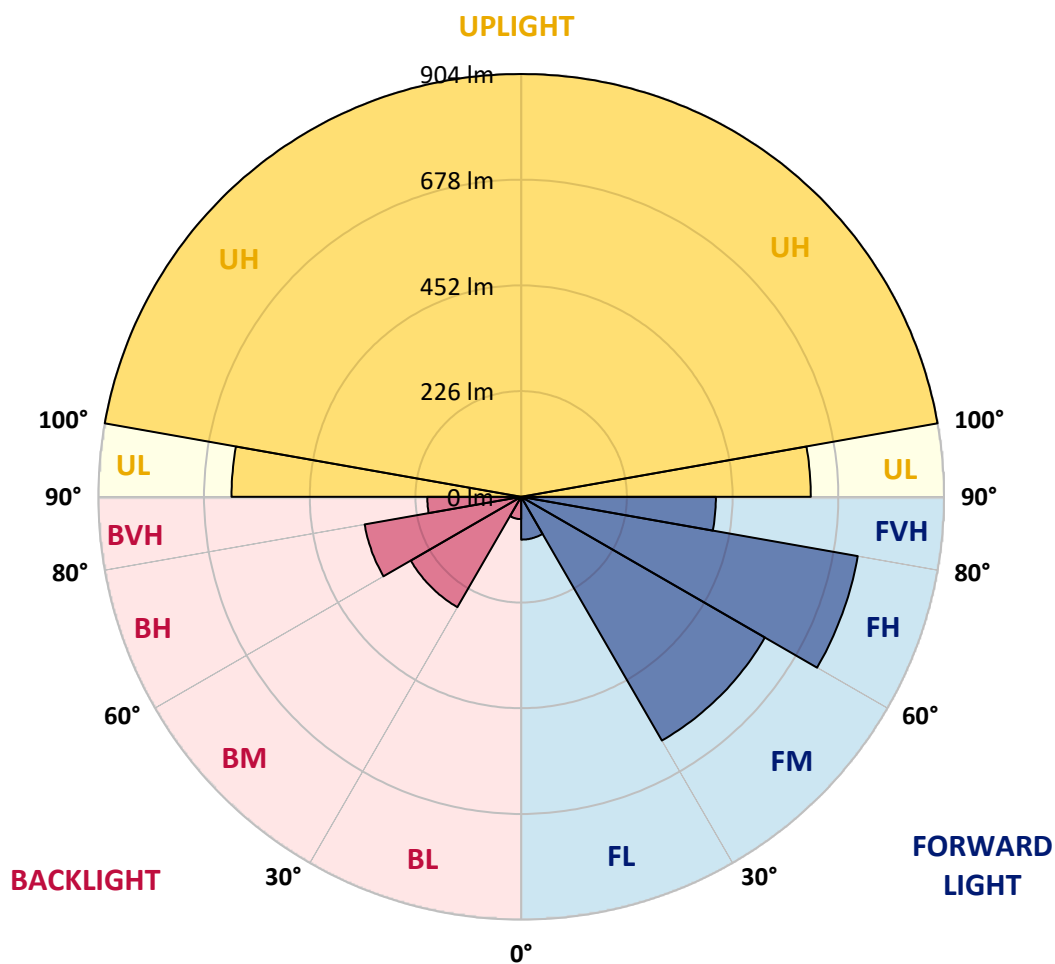
CATALOG NUMBER: ULA-A6-D-U-ASYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.6	1.7			
FM	(30°-60°)	601.8	11.0			
FH	(60°-80°)	730.8	13.3			G1/1800
FVH	(80°-90°)	416.3	7.6			G3/500
BL	(0°-30°)	47.7	0.9	B0/110		
BM	(30°-60°)	272.4	5.0	B1/1000		
BH	(60°-80°)	340.0	6.2	B1/500		G1/500
BVH	(80°-90°)	200.8	3.7			G2/225
UL	(90°-100°)	619.4	11.3		U4/1000	
UH	(100°-180°)	904.2	16.5		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°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	82.0	79.6	79.6	78.4	78.4	77.3	76.1	74.9	72.6	70.3	69.1
5°	98.4	97.2	97.2	94.8	92.5	90.2	86.6	83.1	79.6	74.9	73.8
7.5°	117.1	115.9	115.9	112.4	110.1	106.5	103.0	98.4	93.7	89.0	86.6
10°	135.8	134.6	134.6	132.3	130.0	125.3	120.6	117.1	110.1	104.2	101.9
12.5°	155.7	153.4	153.4	151.0	149.9	146.4	141.7	137.0	128.8	121.8	118.3
15°	174.5	173.3	173.3	172.1	170.9	167.4	162.7	158.1	149.9	141.7	137.0
17.5°	195.5	194.4	193.2	193.2	193.2	189.7	186.2	181.5	172.1	161.6	156.9
20°	219.0	216.6	216.6	217.8	217.8	215.4	211.9	206.1	196.7	185.0	178.0
22.5°	243.5	242.4	243.5	243.5	244.7	243.5	240.0	234.2	224.8	210.8	202.6
25°	270.5	269.3	271.6	272.8	275.2	276.3	272.8	265.8	255.2	238.9	229.5
27.5°	303.3	302.1	303.3	307.9	309.1	310.3	307.9	302.1	289.2	270.5	258.8
30°	332.5	332.5	334.9	338.4	341.9	344.2	341.9	337.2	323.2	302.1	289.2
32.5°	363.0	364.1	365.3	370.0	374.7	378.2	375.8	372.3	355.9	336.0	319.6
35°	395.8	396.9	396.9	402.8	408.6	411.0	412.1	403.9	391.1	366.5	348.9
37.5°	428.5	427.4	428.5	434.4	440.2	443.8	444.9	440.2	423.9	396.9	379.4
40°	456.6	456.6	459.0	464.8	470.7	475.4	476.5	470.7	455.5	426.2	407.5
42.5°	485.9	485.9	488.2	492.9	500.0	504.6	507.0	501.1	483.6	455.5	434.4
45°	512.8	512.8	515.2	521.0	528.1	532.7	536.3	529.2	511.7	482.4	462.5
47.5°	538.6	539.8	540.9	545.6	553.8	558.5	563.2	557.3	538.6	505.8	485.9
50°	563.2	564.4	565.5	571.4	577.2	583.1	588.9	583.1	565.5	531.6	509.3
52.5°	585.4	586.6	588.9	591.3	599.5	606.5	612.4	607.7	587.8	553.8	530.4
55°	608.8	608.8	610.0	612.4	620.6	628.8	635.8	631.1	611.2	576.1	552.6
57.5°	628.8	628.8	629.9	632.3	639.3	647.5	655.7	652.2	632.3	596.0	572.6
60°	646.3	646.3	647.5	649.8	656.9	667.4	675.6	672.1	652.2	614.7	591.3
62.5°	663.9	663.9	665.0	667.4	674.4	685.0	694.3	690.8	670.9	633.4	608.8
65°	679.1	679.1	679.1	681.4	689.6	701.3	710.7	708.4	687.3	651.0	625.2
67.5°	693.1	693.1	693.1	694.3	703.7	715.4	727.1	724.8	704.9	667.4	640.5
70°	707.2	704.9	707.2	707.2	716.6	729.4	741.2	740.0	720.1	682.6	655.7
72.5°	717.7	716.6	717.7	720.1	728.3	741.2	754.0	754.0	734.1	695.5	669.7
75°	725.9	725.9	725.9	728.3	737.6	751.7	764.6	764.6	745.8	707.2	681.4
77.5°	734.1	734.1	735.3	736.5	745.8	759.9	775.1	773.9	756.4	717.7	693.1
80°	740.0	738.8	740.0	743.5	751.7	766.9	782.1	782.1	764.6	727.1	701.3
82.5°	744.7	743.5	744.7	748.2	756.4	772.8	788.0	788.0	771.6	735.3	709.5
85°	747.0	747.0	748.2	751.7	759.9	776.3	791.5	792.7	777.5	741.2	715.4
87.5°	748.2	748.2	749.4	754.0	762.2	777.5	793.8	796.2	781.0	743.5	718.9
90°	748.2	748.2	750.5	754.0	763.4	778.6	795.0	797.4	782.1	745.8	721.2
92.5°	748.2	747.0	750.5	754.0	762.2	777.5	793.8	796.2	782.1	745.8	721.2
95°	745.8	744.7	748.2	751.7	759.9	775.1	790.3	793.8	779.8	744.7	718.9
97.5°	741.2	741.2	743.5	748.2	756.4	770.4	786.8	789.2	775.1	740.0	715.4
100°	736.5	736.5	738.8	742.3	750.5	765.7	779.8	783.3	766.9	734.1	708.4
102.5°	730.6	730.6	731.8	735.3	744.7	758.7	771.6	773.9	759.9	724.8	700.2
105°	722.4	721.2	723.6	727.1	735.3	749.4	762.2	764.6	748.2	714.2	689.6
107.5°	711.9	711.9	711.9	716.6	724.8	738.8	750.5	751.7	735.3	701.3	675.6
110°	701.3	701.3	701.3	704.9	714.2	727.1	738.8	738.8	721.2	687.3	663.9



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	689.6	688.5	688.5	692.0	701.3	714.2	725.9	723.6	706.0	672.1	648.7
115°	675.6	675.6	674.4	677.9	688.5	700.2	710.7	707.2	690.8	655.7	632.3
117.5°	661.5	660.4	660.4	663.9	673.2	686.1	695.5	692.0	673.2	639.3	615.9
120°	646.3	645.1	644.0	647.5	658.0	669.7	677.9	673.2	653.3	620.6	598.3
122.5°	628.8	627.6	627.6	631.1	641.6	653.3	660.4	653.3	635.8	601.8	579.6
125°	610.0	611.2	610.0	613.5	622.9	635.8	641.6	634.6	615.9	581.9	559.7
127.5°	591.3	591.3	590.1	594.8	604.2	615.9	621.7	613.5	594.8	560.8	539.8
130°	571.4	571.4	570.2	574.9	584.3	594.8	598.3	590.1	571.4	538.6	517.5
132.5°	549.1	550.3	550.3	555.0	563.2	571.4	576.1	566.7	548.0	516.3	495.3
135°	528.1	526.9	528.1	531.6	540.9	548.0	549.1	540.9	523.4	491.8	471.9
137.5°	503.5	504.6	504.6	508.2	516.3	523.4	524.5	515.2	497.6	467.2	447.3
140°	480.1	480.1	482.4	484.7	490.6	496.4	496.4	487.1	470.7	440.2	421.5
142.5°	455.5	455.5	456.6	461.3	466.0	469.5	468.3	459.0	442.6	413.3	396.9
145°	432.0	432.0	433.2	436.7	440.2	442.6	440.2	432.0	415.7	386.4	371.2
147.5°	409.8	408.6	411.0	413.3	415.7	416.8	414.5	405.1	387.6	363.0	346.6
150°	386.4	386.4	386.4	389.9	391.1	391.1	387.6	378.2	361.8	337.2	323.2
152.5°	363.0	361.8	363.0	364.1	365.3	364.1	359.5	350.1	334.9	312.6	299.7
155°	338.4	338.4	339.5	339.5	339.5	338.4	333.7	323.2	309.1	289.2	274.0
157.5°	315.0	315.0	315.0	315.0	315.0	312.6	306.8	297.4	281.0	263.4	254.1
160°	291.5	291.5	290.4	289.2	288.0	283.3	278.7	269.3	257.6	242.4	234.2
162.5°	265.8	264.6	264.6	263.4	262.3	258.8	252.9	244.7	234.2	221.3	214.3
165°	242.4	241.2	240.0	240.0	237.7	234.2	229.5	222.5	213.1	201.4	195.5
167.5°	221.3	220.1	219.0	219.0	216.6	211.9	207.2	201.4	193.2	183.8	179.1
170°	202.6	201.4	200.2	199.0	196.7	193.2	188.5	182.7	176.8	169.8	165.1
172.5°	183.8	182.7	181.5	181.5	179.1	175.6	172.1	167.4	162.7	156.9	154.6
175°	166.3	167.4	166.3	165.1	163.9	160.4	158.1	154.6	152.2	148.7	146.4
177.5°	152.2	153.4	153.4	152.2	151.0	148.7	147.5	145.2	144.0	141.7	140.5
180°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	67.9	64.4	62.1	58.5	55.0	52.7	50.3	48.0	46.8	46.8
5°	70.3	66.7	62.1	57.4	53.9	49.2	46.8	44.5	43.3	43.3
7.5°	83.1	78.4	72.6	66.7	62.1	56.2	52.7	50.3	49.2	49.2
10°	97.2	91.3	84.3	77.3	71.4	65.6	60.9	57.4	56.2	56.2
12.5°	113.6	105.4	97.2	87.8	80.8	72.6	67.9	64.4	63.2	62.1
15°	131.1	120.6	110.1	98.4	89.0	80.8	73.8	69.1	67.9	67.9
17.5°	149.9	135.8	122.9	108.9	97.2	85.5	78.4	72.6	70.3	70.3
20°	169.8	153.4	135.8	119.4	104.2	91.3	80.8	74.9	71.4	71.4
22.5°	193.2	173.3	151.0	131.1	113.6	97.2	84.3	76.1	72.6	71.4
25°	217.8	193.2	168.6	145.2	122.9	103.0	89.0	79.6	73.8	73.8
27.5°	244.7	216.6	187.3	159.2	132.3	110.1	92.5	82.0	76.1	74.9
30°	274.0	241.2	207.2	173.3	142.8	117.1	97.2	84.3	78.4	77.3
32.5°	302.1	264.6	226.0	188.5	153.4	122.9	101.9	87.8	80.8	79.6
35°	332.5	290.4	245.9	203.7	163.9	130.0	105.4	90.2	83.1	82.0
37.5°	360.6	315.0	264.6	217.8	174.5	137.0	110.1	93.7	85.5	84.3
40°	387.6	339.5	285.7	233.0	185.0	144.0	114.7	97.2	87.8	86.6
42.5°	413.3	363.0	305.6	247.1	194.4	151.0	119.4	100.7	91.3	90.2
45°	439.1	384.0	324.3	261.1	204.9	156.9	124.1	103.0	94.8	92.5
47.5°	462.5	405.1	341.9	275.2	214.3	163.9	127.6	106.5	97.2	96.0
50°	484.7	426.2	358.3	289.2	223.6	169.8	132.3	110.1	100.7	99.5
52.5°	505.8	444.9	375.8	303.3	231.8	175.6	137.0	113.6	104.2	103.0
55°	525.7	463.7	391.1	315.0	241.2	181.5	140.5	118.3	107.7	106.5
57.5°	546.8	481.2	406.3	327.8	249.4	187.3	145.2	121.8	111.2	110.1
60°	563.2	497.6	420.3	338.4	257.6	193.2	149.9	125.3	114.7	113.6
62.5°	581.9	512.8	434.4	350.1	265.8	199.0	154.6	130.0	119.4	118.3
65°	597.1	528.1	447.3	360.6	272.8	203.7	158.1	133.5	122.9	121.8
67.5°	613.5	543.3	460.1	371.2	281.0	209.6	162.7	138.2	127.6	126.5
70°	627.6	556.2	471.9	380.5	289.2	215.4	167.4	141.7	132.3	130.0
72.5°	640.5	570.2	483.6	389.9	298.6	220.1	172.1	146.4	135.8	134.6
75°	652.2	580.7	494.1	398.1	304.4	224.8	175.6	149.9	140.5	138.2
77.5°	663.9	591.3	503.5	406.3	310.3	230.7	180.3	154.6	144.0	142.8
80°	673.2	599.5	511.7	412.1	315.0	234.2	183.8	158.1	147.5	146.4
82.5°	680.3	606.5	518.7	418.0	319.6	237.7	186.2	160.4	149.9	148.7
85°	686.1	612.4	523.4	422.7	324.3	240.0	189.7	162.7	152.2	151.0
87.5°	690.8	615.9	526.9	426.2	325.5	242.4	190.9	165.1	154.6	153.4
90°	693.1	618.2	529.2	427.4	327.8	243.5	192.0	166.3	155.7	154.6
92.5°	692.0	618.2	529.2	428.5	329.0	244.7	193.2	166.3	155.7	154.6
95°	690.8	617.0	528.1	427.4	327.8	244.7	193.2	166.3	155.7	154.6
97.5°	686.1	613.5	525.7	425.0	326.7	243.5	190.9	165.1	154.6	153.4
100°	680.3	606.5	521.0	421.5	324.3	241.2	189.7	162.7	152.2	151.0
102.5°	670.9	599.5	514.0	416.8	319.6	237.7	186.2	160.4	149.9	148.7
105°	660.4	590.1	505.8	409.8	315.0	234.2	182.7	156.9	146.4	145.2
107.5°	649.8	577.2	495.3	401.6	309.1	229.5	179.1	153.4	142.8	141.7
110°	635.8	565.5	484.7	393.4	302.1	223.6	174.5	148.7	139.3	137.0



REPORT NUMBER: P256781

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	620.6	552.6	473.0	382.9	295.1	219.0	170.9	145.2	134.6	133.5
115°	605.3	537.4	460.1	373.5	284.5	213.1	166.3	141.7	131.1	130.0
117.5°	588.9	522.2	446.1	361.8	276.3	207.2	161.6	137.0	126.5	125.3
120°	571.4	507.0	432.0	350.1	268.1	201.4	156.9	133.5	122.9	121.8
122.5°	553.8	490.6	418.0	339.5	259.9	195.5	153.4	128.8	119.4	117.1
125°	535.1	473.0	402.8	326.7	251.7	190.9	148.7	125.3	115.9	114.7
127.5°	515.2	454.3	386.4	313.8	242.4	185.0	145.2	122.9	112.4	111.2
130°	494.1	436.7	371.2	302.1	234.2	179.1	141.7	119.4	108.9	107.7
132.5°	471.9	416.8	354.8	286.9	224.8	173.3	137.0	115.9	106.5	105.4
135°	448.4	396.9	337.2	272.8	215.4	167.4	133.5	113.6	104.2	103.0
137.5°	426.2	375.8	320.8	259.9	207.2	162.7	131.1	111.2	103.0	101.9
140°	400.4	353.6	302.1	247.1	197.9	156.9	127.6	108.9	100.7	99.5
142.5°	375.8	332.5	282.2	234.2	189.7	152.2	125.3	107.7	99.5	98.4
145°	352.4	311.4	265.8	222.5	181.5	147.5	121.8	106.5	99.5	98.4
147.5°	330.2	292.7	250.6	210.8	173.3	142.8	119.4	105.4	98.4	97.2
150°	307.9	270.5	234.2	199.0	166.3	138.2	118.3	104.2	98.4	97.2
152.5°	282.2	251.7	220.1	188.5	159.2	134.6	115.9	104.2	98.4	98.4
155°	262.3	234.2	206.1	178.0	153.4	132.3	115.9	105.4	99.5	99.5
157.5°	242.4	219.0	194.4	169.8	148.7	130.0	115.9	106.5	101.9	101.9
160°	223.6	203.7	182.7	162.7	144.0	128.8	115.9	107.7	104.2	103.0
162.5°	206.1	188.5	170.9	154.6	139.3	126.5	115.9	108.9	105.4	105.4
165°	188.5	174.5	160.4	147.5	135.8	124.1	115.9	111.2	107.7	107.7
167.5°	173.3	162.7	152.2	141.7	132.3	124.1	117.1	112.4	111.2	110.1
170°	161.6	153.4	145.2	137.0	130.0	122.9	118.3	115.9	113.6	113.6
172.5°	151.0	145.2	139.3	133.5	128.8	124.1	121.8	119.4	118.3	118.3
175°	144.0	140.5	137.0	133.5	131.1	127.6	126.5	125.3	124.1	124.1
177.5°	140.5	138.2	137.0	135.8	134.6	133.5	133.5	132.3	132.3	132.3
180°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5

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