

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: P256798

Luminaire Tested: **ULA-A5-D-U-ASYM-VMx-7030-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256798
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-A5-D-U-ASYM-VMx-7030-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.4 lumens
Efficiency: N/A
Efficacy: 115.4 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): 36.7
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



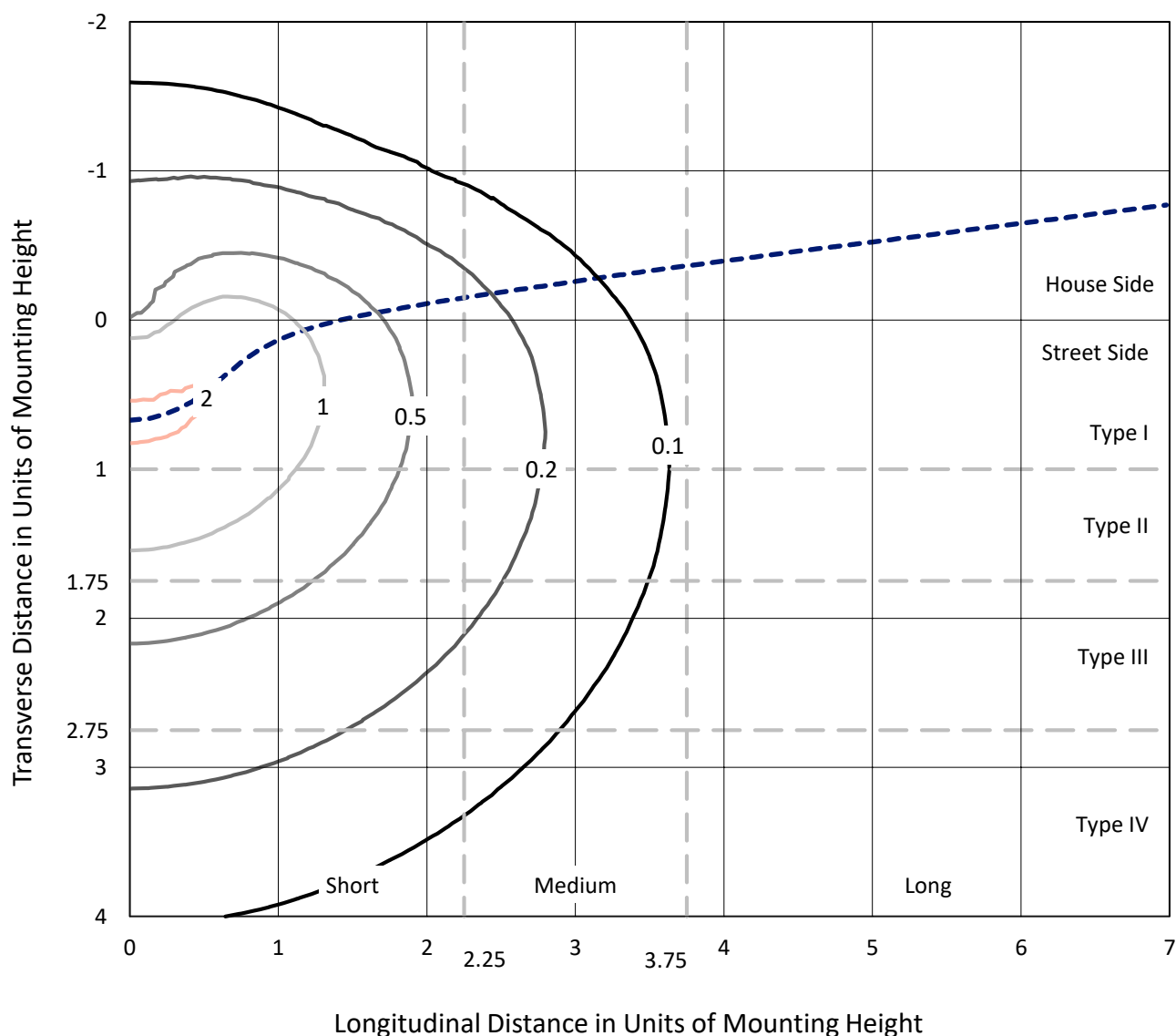
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

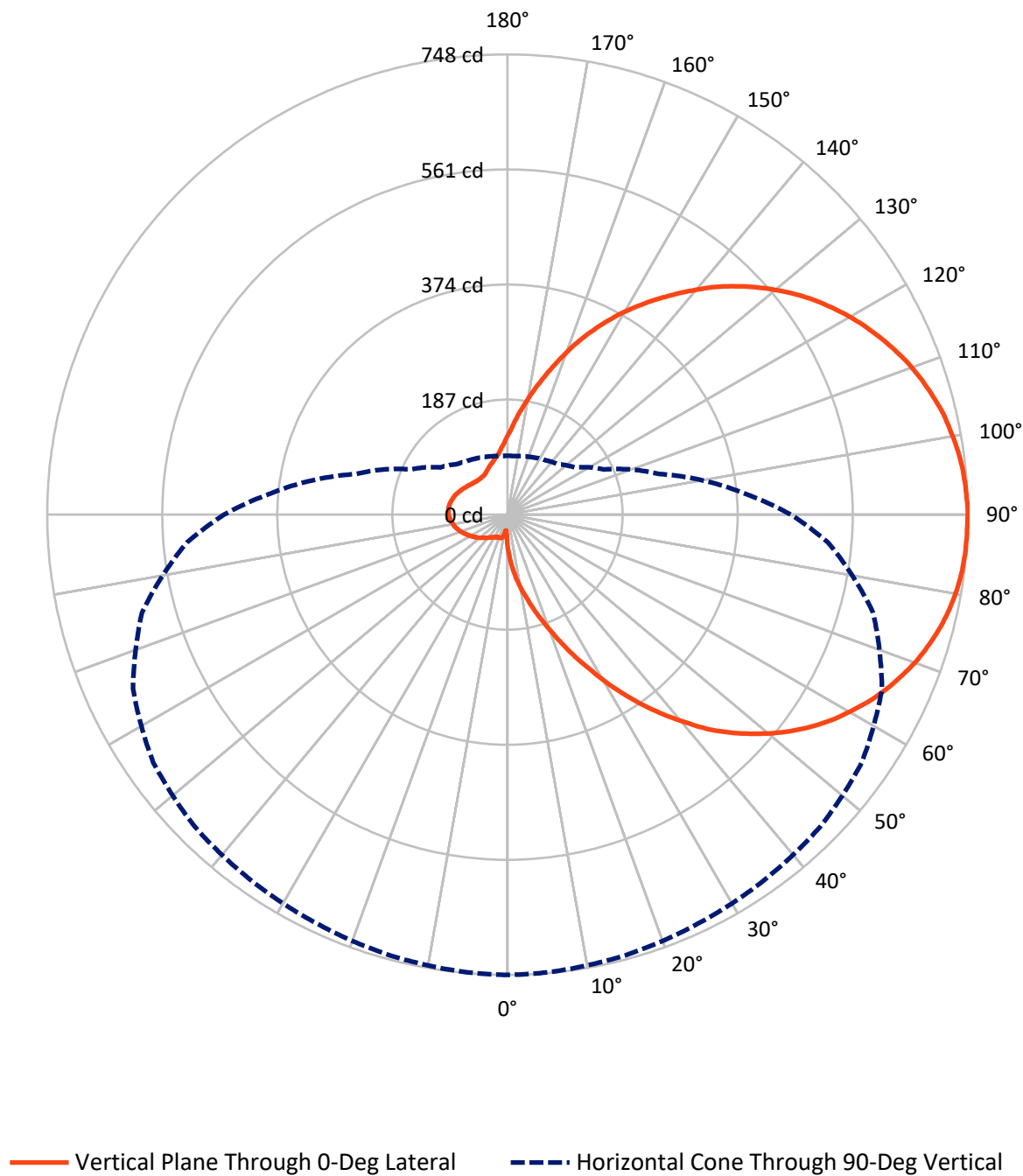


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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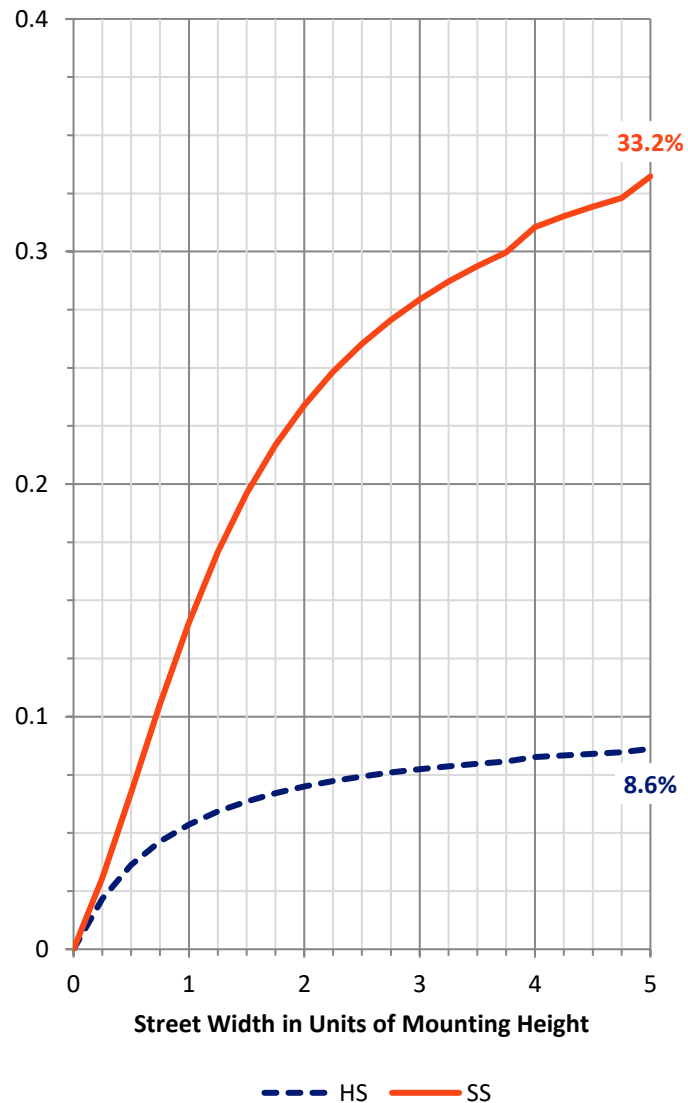
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.0	491.9	896.9
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1642.6	1695.8	3338.5
	% Fixture	38.8	40.0	78.8
Total	Lumens	2047.6	2187.8	4235.4
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	29.5	0.7
20°-30°	73.7	1.7
30°-40°	142.0	3.4
40°-50°	223.8	5.3
50°-60°	305.0	7.2
60°-70°	376.3	8.9
70°-80°	430.7	10.2
80°-90°	460.5	10.9
90°-100°	462.5	10.9
100°-110°	436.4	10.3
110°-120°	387.5	9.1
120°-130°	323.2	7.6
130°-140°	247.6	5.8
140°-150°	169.4	4.0
150°-160°	100.7	2.4
160°-170°	47.6	1.1
170°-180°	12.9	0.3
0°-90°	2047.6	48.3
0°-180°	4235.4	100.0

Coefficient of Utilization



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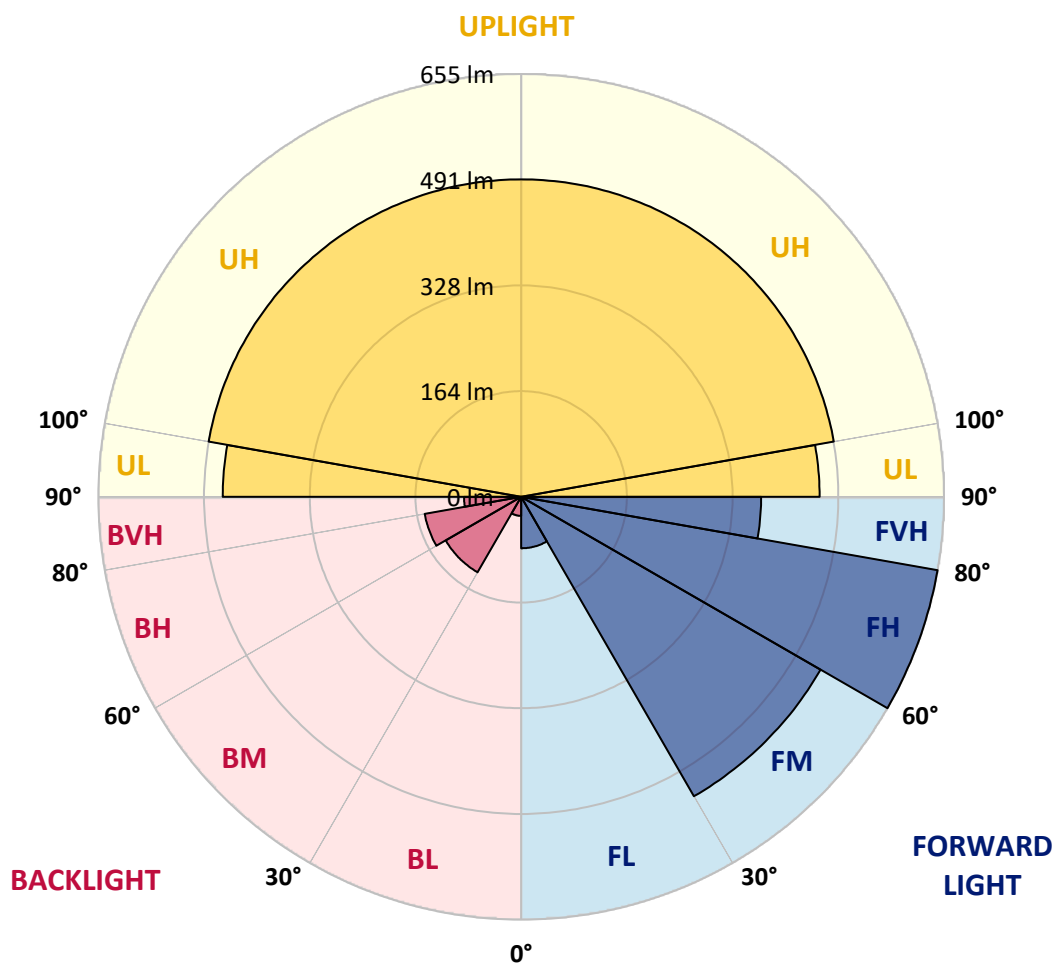
CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.8	1.9			
FM	(30°-60°)	535.8	12.6			
FH	(60°-80°)	655.3	15.5			G0/660
FVH	(80°-90°)	371.9	8.8			G3/500
BL	(0°-30°)	29.6	0.7	B0/110		
BM	(30°-60°)	135.0	3.2	B0/220		
BH	(60°-80°)	151.7	3.6	B1/500		G1/500
BVH	(80°-90°)	88.6	2.1			G1/100
UL	(90°-100°)	462.5	10.9		U3/500	
UH	(100°-180°)	491.9	11.6		U3/500	

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°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	69.9	68.7	68.7	68.1	68.1	65.6	63.2	60.7	57.7	55.8	54.6
5°	88.3	86.5	85.9	84.0	82.2	77.9	74.8	69.9	65.6	60.1	57.7
7.5°	105.5	104.3	102.4	100.0	98.1	92.6	88.3	82.2	76.7	70.5	68.1
10°	122.7	121.4	119.6	117.1	113.5	109.2	104.3	96.9	90.2	82.8	79.1
12.5°	139.2	138.6	137.4	134.9	131.9	127.0	121.4	113.5	105.5	95.7	90.8
15°	159.5	158.2	157.0	154.6	151.5	146.0	139.8	131.9	121.4	110.4	104.9
17.5°	179.7	178.5	178.5	176.6	173.0	168.1	161.3	151.5	138.6	125.1	117.8
20°	202.4	201.2	201.2	199.3	195.7	190.7	183.4	173.0	158.9	141.1	132.5
22.5°	228.2	226.9	226.9	225.1	221.4	216.5	208.5	196.9	180.3	161.3	149.7
25°	256.4	254.5	254.5	252.7	249.0	244.1	236.1	222.6	203.6	182.2	168.7
27.5°	284.0	284.0	282.7	282.7	279.1	274.2	265.6	250.8	229.4	203.6	187.7
30°	316.5	316.5	314.6	314.0	309.7	305.4	295.6	279.7	256.4	225.7	206.7
32.5°	348.4	348.4	346.5	345.9	341.0	336.7	326.3	309.1	282.7	247.2	226.3
35°	380.9	379.6	378.4	377.8	373.5	368.0	357.6	337.9	308.5	268.6	245.3
37.5°	412.2	412.2	410.9	409.1	405.4	398.7	386.4	365.5	334.3	290.1	263.1
40°	443.4	444.0	442.8	441.0	434.8	429.3	416.4	393.8	359.4	310.3	280.9
42.5°	476.6	474.7	472.9	471.0	464.9	458.2	444.7	420.7	383.3	330.0	297.5
45°	505.4	504.2	502.3	499.9	494.3	485.8	472.3	445.9	406.0	347.8	313.4
47.5°	532.4	531.8	528.7	525.6	520.7	511.5	496.8	469.8	427.5	365.5	327.5
50°	558.7	558.7	555.7	550.8	545.2	537.9	520.7	492.5	447.7	382.1	341.6
52.5°	583.3	582.7	578.4	572.8	567.9	560.0	543.4	514.0	466.7	397.4	353.9
55°	606.0	605.3	600.4	594.9	589.4	581.4	564.3	533.6	485.1	412.2	366.2
57.5°	626.8	626.2	621.3	614.5	609.0	601.1	583.3	551.4	501.7	425.6	377.8
60°	645.2	644.6	639.7	632.3	626.8	618.8	601.7	568.6	517.6	438.5	388.2
62.5°	663.6	662.4	656.9	649.5	642.8	635.4	618.2	585.1	533.0	450.8	398.0
65°	679.6	678.3	672.2	664.2	658.1	650.1	632.9	599.8	546.5	462.4	407.9
67.5°	693.7	692.4	686.3	677.7	671.6	663.6	647.1	613.3	558.7	472.9	416.4
70°	707.2	705.3	699.2	690.0	683.9	675.9	659.3	625.6	571.0	482.7	425.0
72.5°	717.6	716.4	709.6	700.4	693.7	686.9	670.4	636.6	581.4	491.9	433.0
75°	727.4	726.2	719.4	709.6	703.5	696.1	680.2	646.4	590.0	499.9	439.8
77.5°	734.8	733.5	726.8	717.0	710.8	703.5	687.5	654.4	597.4	506.6	445.3
80°	740.9	739.1	732.3	723.1	716.4	709.0	693.7	660.5	604.1	512.1	450.8
82.5°	744.6	743.3	737.2	728.0	721.3	713.3	698.0	665.5	608.4	517.0	454.5
85°	747.0	745.8	739.7	731.1	723.7	716.4	701.0	668.5	612.1	520.1	457.5
87.5°	747.6	747.0	741.5	732.9	725.6	717.6	702.3	670.4	614.5	522.6	459.4
90°	748.3	747.0	741.5	733.5	726.2	718.2	702.9	671.6	615.2	523.2	460.6
92.5°	746.4	745.8	740.9	732.9	726.2	717.0	701.6	671.0	615.2	523.8	461.2
95°	744.0	742.7	739.1	731.1	723.7	715.1	699.2	669.1	613.9	523.2	460.6
97.5°	739.7	739.1	735.4	727.4	720.7	711.5	695.5	665.5	610.9	520.7	459.4
100°	733.5	732.9	729.2	721.9	714.5	705.9	690.0	659.9	606.0	517.0	456.3
102.5°	727.4	726.2	722.5	715.1	708.4	699.8	683.9	654.4	600.4	512.7	453.2
105°	718.2	717.0	713.9	707.2	699.8	691.2	675.3	646.4	592.5	507.2	448.3
107.5°	708.4	707.2	704.1	697.3	690.0	682.0	666.7	637.9	584.5	501.1	443.4
110°	697.3	694.9	692.4	685.7	678.9	671.6	656.3	628.0	576.5	493.7	437.9



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CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	684.5	683.2	680.2	674.0	666.7	659.9	644.6	617.0	565.5	485.8	432.4
115°	670.4	669.1	666.1	659.9	653.8	647.1	632.9	604.1	555.1	477.8	426.3
117.5°	655.6	654.4	650.7	645.2	639.7	633.6	618.8	591.9	543.4	468.6	419.5
120°	639.7	638.5	635.4	630.5	625.0	618.8	604.7	577.8	531.1	459.4	412.2
122.5°	622.5	621.9	618.8	613.3	608.4	603.5	590.0	563.6	518.3	449.0	404.8
125°	604.7	603.5	600.4	595.5	591.9	586.3	572.8	547.1	504.2	437.9	396.2
127.5°	585.1	584.5	581.4	577.1	573.5	568.6	555.1	530.5	488.8	426.3	387.0
130°	564.3	564.3	560.0	557.5	554.4	548.9	536.0	512.1	472.3	412.8	376.6
132.5°	542.8	542.2	539.7	536.0	533.6	528.1	515.8	492.5	454.5	399.3	365.5
135°	520.7	520.1	516.4	514.0	512.1	506.6	493.7	471.6	436.1	384.6	353.3
137.5°	497.4	497.4	493.7	491.9	489.4	483.3	471.0	449.6	416.4	368.6	339.8
140°	472.3	472.3	469.8	466.7	464.9	458.2	446.5	425.6	395.0	350.8	325.1
142.5°	447.7	447.7	445.3	442.2	439.8	433.0	421.4	401.7	373.5	333.6	310.3
145°	423.8	423.8	422.0	418.9	415.8	409.1	397.4	378.4	352.7	315.9	295.6
147.5°	399.9	399.9	398.0	395.0	391.9	385.2	373.5	355.7	331.8	299.3	280.3
150°	376.0	376.0	373.5	370.4	368.0	360.6	349.6	332.4	311.0	280.9	264.3
152.5°	351.4	351.4	349.0	346.5	342.8	336.1	325.1	310.3	289.5	263.1	248.4
155°	326.3	325.1	323.8	321.4	317.7	311.0	300.5	287.0	268.0	245.3	232.4
157.5°	301.8	300.5	298.7	296.8	293.2	287.0	277.2	264.3	247.8	228.2	217.1
160°	275.4	276.6	274.8	272.9	269.2	262.5	253.9	242.9	228.2	211.0	201.8
162.5°	250.8	251.5	250.2	248.4	245.3	238.6	231.2	221.4	208.5	193.8	185.8
165°	227.5	228.2	226.9	225.1	222.0	215.9	209.8	200.6	189.5	177.9	171.1
167.5°	206.7	207.9	205.5	203.6	201.2	195.7	190.1	182.8	173.0	163.8	158.2
170°	186.5	188.3	185.8	184.6	182.2	177.9	172.3	166.8	158.9	150.9	146.0
172.5°	168.7	169.9	168.1	166.8	164.4	160.7	157.0	152.1	146.0	139.8	136.8
175°	152.1	152.1	151.5	149.0	148.4	146.0	142.9	139.8	136.8	132.5	130.0
177.5°	136.8	136.8	136.8	136.2	135.5	134.3	133.1	131.3	129.4	127.6	126.3
180°	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7



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CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	53.4	49.7	46.6	43.5	40.5	38.6	35.6	35.0	34.3	33.7
5°	55.2	50.3	44.8	40.5	36.2	31.9	28.8	27.0	25.8	25.8
7.5°	64.4	58.9	52.1	46.0	41.1	36.2	32.5	29.4	27.6	27.0
10°	74.8	67.5	59.5	52.1	46.6	41.1	36.2	33.1	31.9	31.9
12.5°	86.5	77.3	67.5	58.3	51.5	44.8	39.9	37.4	36.2	36.2
15°	98.1	86.5	74.8	63.8	55.2	48.5	43.5	40.5	39.3	39.3
17.5°	110.4	96.3	81.6	68.7	58.9	50.9	45.4	41.7	39.9	39.9
20°	123.3	105.5	88.3	73.0	61.3	52.1	46.0	41.7	39.9	39.3
22.5°	138.0	115.9	95.7	77.9	64.4	54.0	46.6	42.3	39.9	39.9
25°	154.6	127.0	103.0	82.2	66.9	55.2	47.2	42.3	40.5	39.9
27.5°	171.7	138.6	110.4	87.1	69.3	57.0	48.5	43.5	41.1	41.1
30°	188.9	150.3	117.1	90.8	71.8	58.3	49.7	44.8	42.3	41.7
32.5°	205.5	161.9	123.3	94.5	74.2	60.1	50.9	46.0	43.5	43.5
35°	220.2	171.1	128.8	96.9	76.1	61.9	52.7	47.2	44.8	44.8
37.5°	235.5	180.3	133.1	99.4	77.3	63.2	54.0	49.1	46.6	46.6
40°	249.6	188.3	136.8	101.2	78.5	64.4	55.8	50.9	48.5	48.5
42.5°	263.1	195.7	139.8	103.0	80.3	66.2	57.7	52.7	50.9	50.9
45°	275.4	201.2	142.3	104.3	81.6	68.1	60.1	55.2	53.4	52.7
47.5°	286.4	206.7	144.1	105.5	82.8	69.3	61.9	57.7	55.2	55.2
50°	296.8	211.6	146.0	106.1	84.0	71.1	64.4	60.1	58.3	58.3
52.5°	306.7	215.9	147.2	107.3	85.3	73.0	66.2	62.6	60.7	60.7
55°	315.9	220.2	149.7	108.6	87.1	75.4	68.7	65.0	63.2	63.2
57.5°	324.4	223.9	151.5	109.8	88.3	77.9	71.8	68.1	66.2	66.2
60°	332.4	226.9	152.7	111.0	90.2	80.3	74.2	70.5	68.7	68.7
62.5°	340.4	230.6	153.9	112.9	92.6	82.8	77.3	73.6	71.8	71.8
65°	347.8	233.7	155.8	114.7	94.5	85.3	79.7	76.7	74.8	74.2
67.5°	353.9	236.1	157.6	116.5	96.9	87.7	82.8	79.7	77.3	77.3
70°	360.0	239.2	160.1	118.4	99.4	90.8	85.3	82.2	80.3	79.7
72.5°	366.2	242.3	161.9	120.2	101.8	93.2	88.3	84.6	82.8	82.8
75°	371.7	244.7	164.4	122.7	104.3	96.3	90.8	87.7	85.3	85.3
77.5°	376.0	247.2	166.2	124.5	106.7	98.1	93.2	90.2	87.7	87.7
80°	379.6	249.0	168.1	127.0	109.2	100.6	95.7	92.0	90.2	89.5
82.5°	383.3	250.8	169.3	128.8	111.0	103.0	97.5	94.5	92.0	91.4
85°	385.2	252.7	171.1	130.6	112.9	104.9	99.4	95.7	93.8	93.2
87.5°	387.0	253.9	172.3	131.9	114.7	106.1	101.2	97.5	95.1	94.5
90°	388.2	255.1	173.6	133.7	115.9	107.9	102.4	98.1	95.7	95.7
92.5°	388.8	255.8	174.8	134.3	117.1	108.6	103.0	98.7	96.3	96.3
95°	388.8	256.4	176.0	135.5	118.4	109.2	103.7	99.4	96.9	96.3
97.5°	388.2	257.0	176.6	136.8	119.0	109.2	103.7	99.4	96.9	96.3
100°	386.4	256.4	177.9	137.4	119.0	109.2	103.0	98.7	96.3	95.7
102.5°	384.6	257.0	179.1	138.6	119.6	109.2	102.4	98.1	95.7	95.1
105°	381.5	257.6	180.3	139.2	119.6	108.6	101.8	96.9	94.5	93.8
107.5°	378.4	257.6	181.5	139.8	119.6	107.9	100.6	95.7	93.2	92.6
110°	375.4	258.8	183.4	141.7	119.6	107.3	99.4	94.5	91.4	91.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	372.3	259.4	185.8	142.9	120.2	106.1	97.5	92.6	89.5	89.5
115°	368.6	260.7	188.3	144.1	120.2	105.5	96.3	90.8	87.7	87.7
117.5°	364.9	261.9	190.1	146.0	120.8	104.9	95.1	88.9	85.9	85.9
120°	360.6	263.1	192.6	147.8	121.4	104.3	93.8	87.1	84.6	84.0
122.5°	356.3	263.1	195.0	150.9	122.1	103.7	92.6	85.9	82.8	82.2
125°	350.8	263.1	196.9	152.1	122.7	103.7	91.4	84.0	81.0	80.3
127.5°	344.7	262.5	198.7	153.3	122.7	103.0	90.2	82.8	79.1	79.1
130°	337.3	260.7	199.3	154.6	123.3	102.4	89.5	81.6	77.9	77.3
132.5°	330.0	258.2	199.3	155.8	123.9	102.4	88.3	80.3	76.7	76.1
135°	319.5	253.9	198.1	155.8	123.9	102.4	87.7	79.7	75.4	75.4
137.5°	309.1	249.0	196.3	154.6	123.9	101.8	87.7	79.1	74.8	74.2
140°	297.5	242.3	193.2	153.9	123.3	101.8	87.1	78.5	74.2	73.6
142.5°	285.2	235.5	190.1	152.7	123.3	101.8	87.1	78.5	74.2	73.6
145°	272.9	228.2	186.5	150.9	122.1	101.8	87.1	78.5	74.2	73.6
147.5°	260.0	220.2	182.2	147.8	121.4	101.8	87.7	78.5	74.8	74.2
150°	246.6	210.4	176.6	144.7	120.2	101.2	87.7	79.1	75.4	74.8
152.5°	233.1	200.6	169.9	141.1	119.0	101.2	88.3	80.3	76.7	76.1
155°	218.3	190.7	163.8	138.0	117.8	101.8	90.2	82.2	79.1	78.5
157.5°	204.8	180.9	157.6	134.9	117.1	102.4	92.0	84.6	81.6	81.0
160°	191.4	171.1	150.9	131.9	115.9	103.0	93.2	87.1	84.0	84.0
162.5°	177.9	160.7	142.9	127.6	114.1	103.0	95.1	89.5	86.5	86.5
165°	164.4	149.7	136.2	123.3	112.2	103.7	96.3	92.0	89.5	88.9
167.5°	152.7	141.1	130.0	120.2	111.0	104.3	98.1	94.5	92.6	92.6
170°	141.7	133.7	125.1	117.8	111.0	105.5	100.6	98.1	96.3	96.3
172.5°	133.7	128.2	122.1	116.5	111.6	107.3	104.3	102.4	101.2	100.6
175°	128.2	124.5	120.2	117.1	114.1	111.0	109.2	108.6	107.9	107.9
177.5°	125.7	123.3	121.4	119.6	118.4	117.1	116.5	115.9	115.9	115.3
180°	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7

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