

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: P256840

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-17)
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-SYM-VMx-7030-HSS-BK
Description: UTILITY LIGHT ACORN SYMMETRIC W/ HSS
Light Source: (90) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.6 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 35.9
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



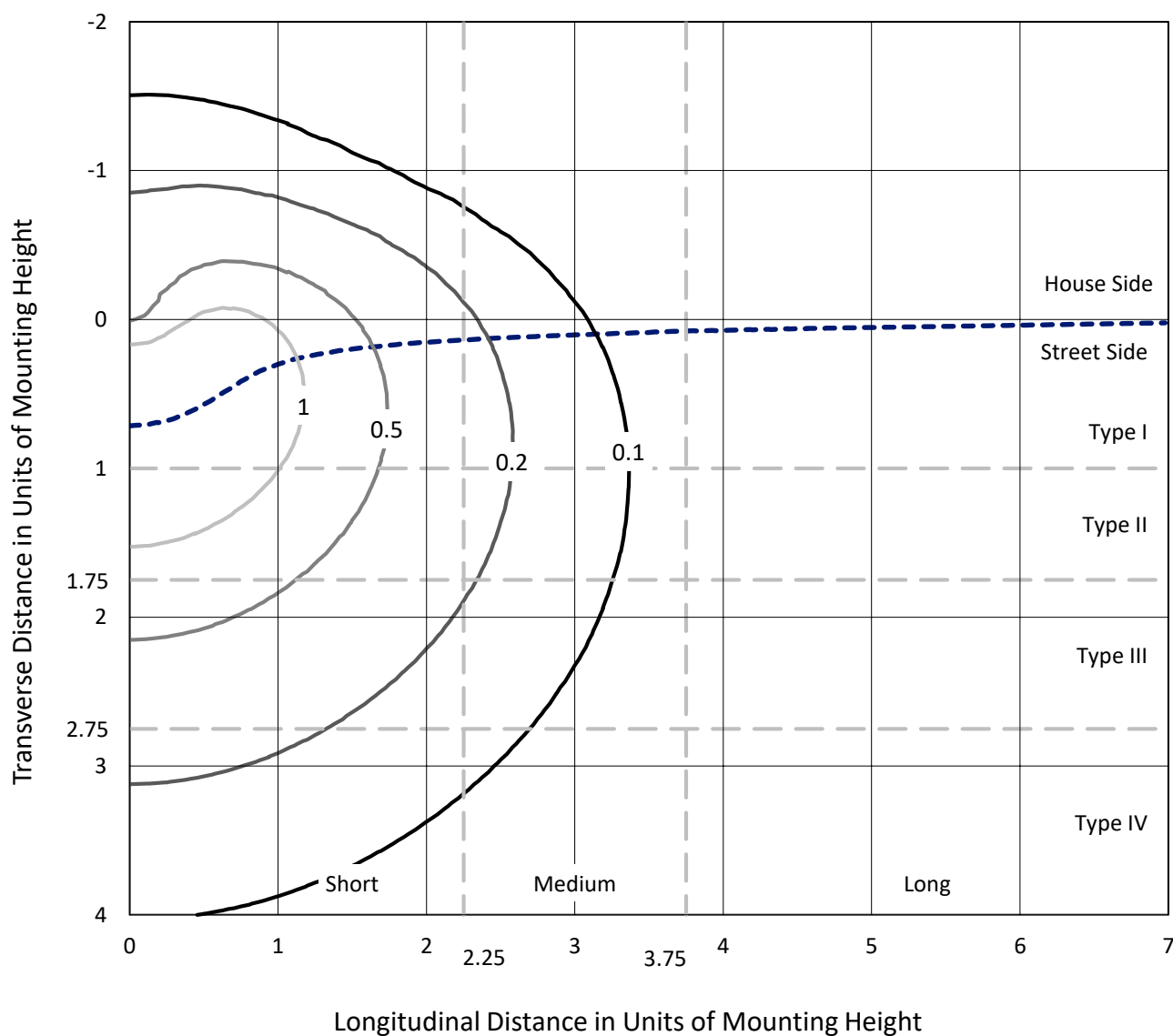
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

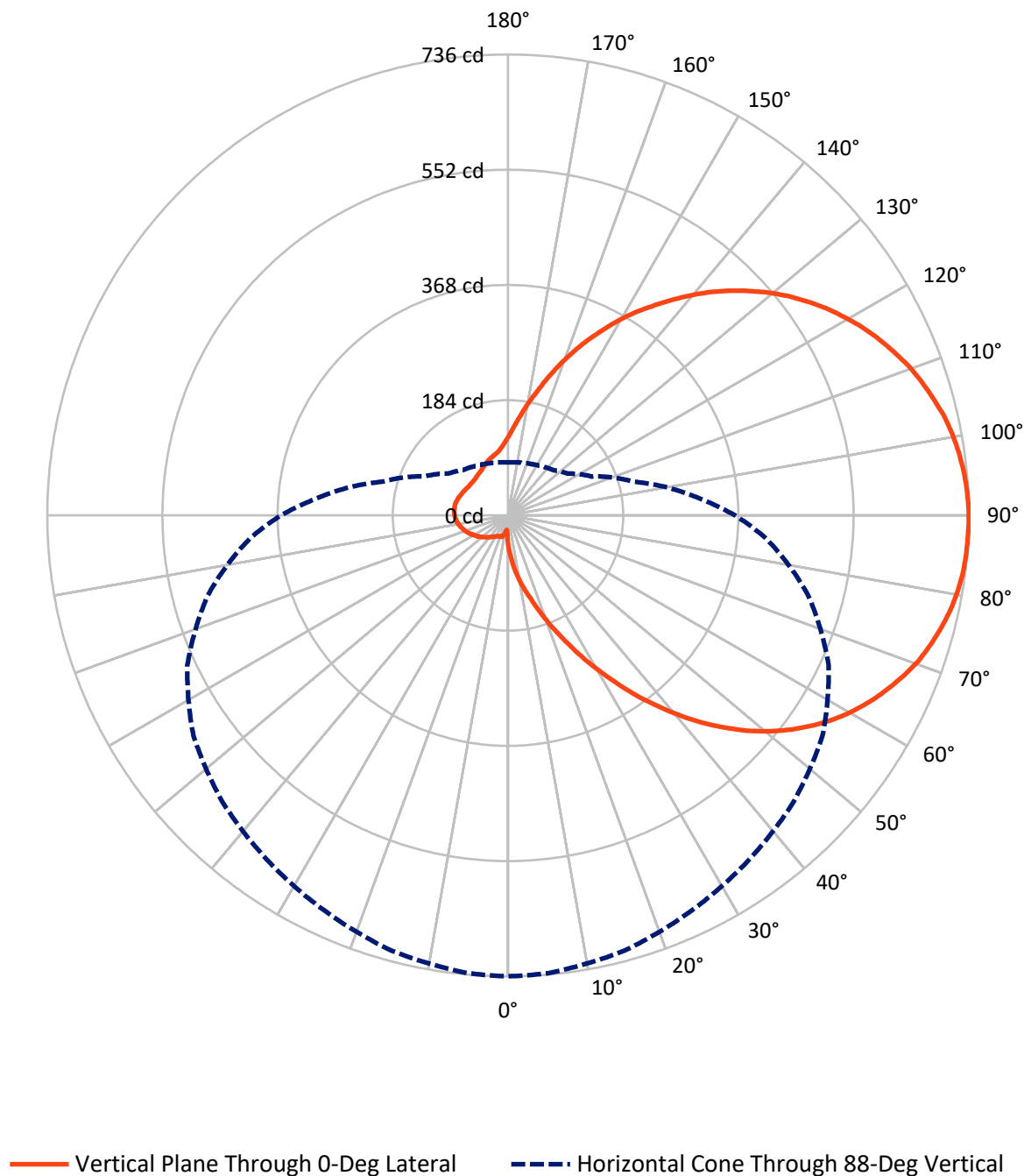


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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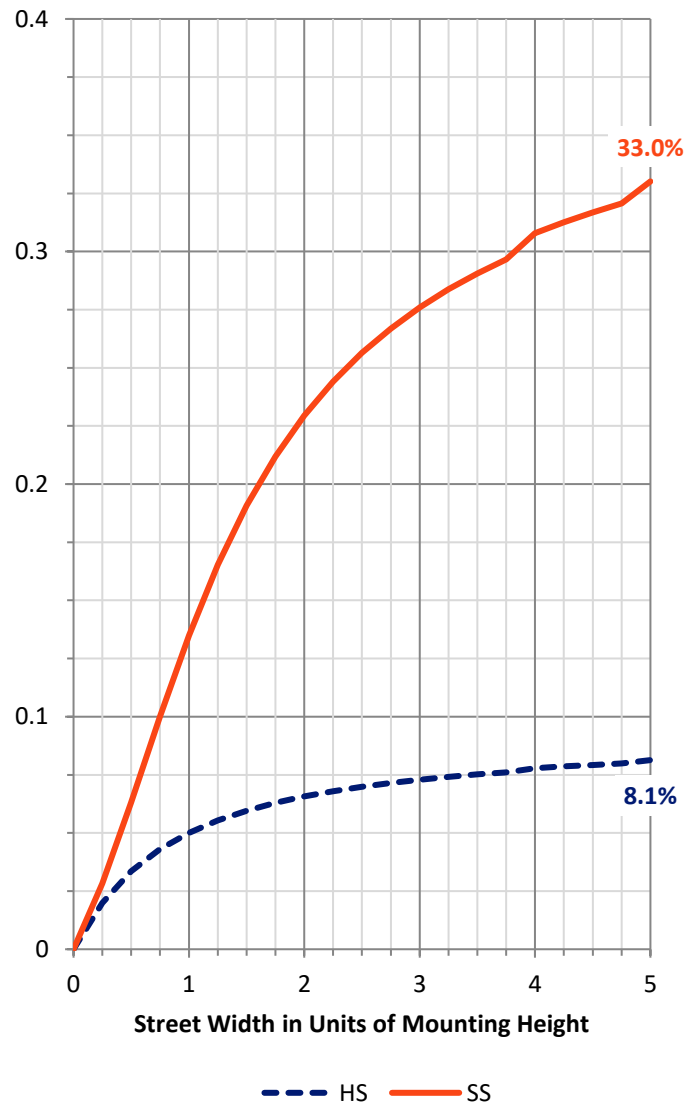
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	345.8	453.8	799.6
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1480.5	1543.5	3024.0
	% Fixture	38.7	40.4	79.1
Total	Lumens	1826.3	1997.3	3823.6
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	25.9	0.7
20°-30°	65.0	1.7
30°-40°	126.5	3.3
40°-50°	200.9	5.3
50°-60°	273.8	7.2
60°-70°	336.2	8.8
70°-80°	383.3	10.0
80°-90°	409.1	10.7
90°-100°	411.6	10.8
100°-110°	390.5	10.2
110°-120°	350.6	9.2
120°-130°	296.8	7.8
130°-140°	231.2	6.0
140°-150°	161.0	4.2
150°-160°	96.9	2.5
160°-170°	46.3	1.2
170°-180°	12.6	0.3
0°-90°	1826.3	47.8
0°-180°	3823.6	100.0

Coefficient of Utilization



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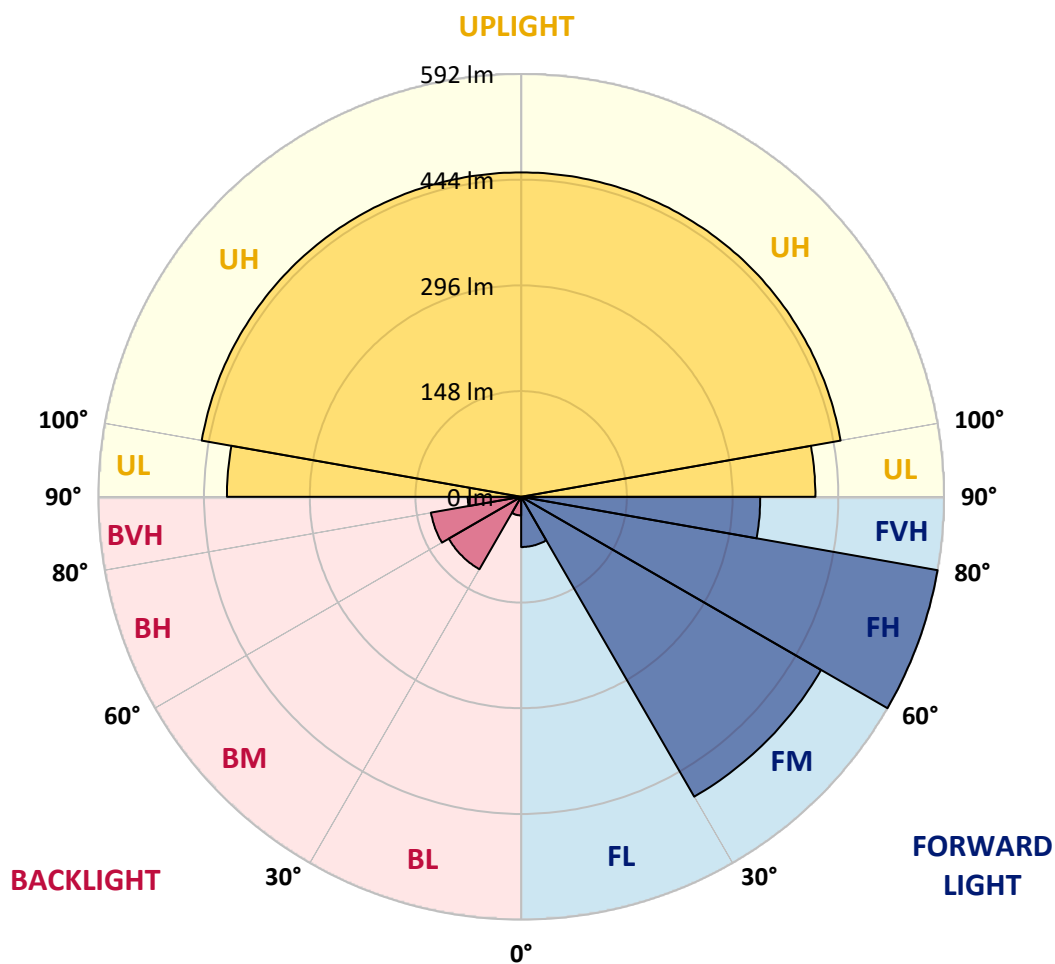
CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.3	1.8			
FM	(30°-60°)	484.3	12.7			
FH	(60°-80°)	591.5	15.5			G0/660
FVH	(80°-90°)	334.4	8.7			G3/500
BL	(0°-30°)	26.0	0.7	B0/110		
BM	(30°-60°)	117.0	3.1	B0/220		
BH	(60°-80°)	128.1	3.3	B1/500		G1/500
BVH	(80°-90°)	74.7	2.0			G1/100
UL	(90°-100°)	411.6	10.8		U3/500	
UH	(100°-180°)	453.8	11.9		U3/500	

BUG Rating: B1-U5-G3

Type IV Short



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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	60.7	60.7	59.5	60.1	58.4	57.3	55.0	52.7	51.0	48.8	47.6
5°	77.1	76.0	74.9	73.7	70.9	68.0	65.2	61.2	57.3	53.3	51.0
7.5°	92.4	91.9	89.6	87.9	84.5	81.1	77.1	72.0	67.5	62.4	59.5
10°	107.7	107.2	104.9	103.2	99.2	95.8	90.7	85.1	79.4	72.6	69.2
12.5°	123.1	122.5	120.2	119.1	115.7	111.7	106.0	98.7	91.9	83.9	80.0
15°	138.9	138.9	138.4	136.1	132.1	128.2	122.5	114.0	105.5	95.8	91.3
17.5°	159.9	158.8	157.1	155.4	152.0	147.4	138.9	131.0	120.2	108.9	102.1
20°	181.5	180.3	179.2	176.9	172.4	167.9	159.3	149.7	136.1	122.5	114.0
22.5°	204.7	203.6	202.4	200.2	195.6	190.5	181.5	170.1	155.9	138.4	127.6
25°	230.2	230.2	228.5	226.3	221.2	216.1	205.3	192.8	176.4	155.4	143.5
27.5°	259.1	257.4	256.9	254.0	249.5	243.3	231.9	217.2	197.9	173.5	160.5
30°	288.1	287.5	286.9	283.5	278.4	271.6	258.6	243.3	220.0	191.7	176.4
32.5°	319.3	319.8	317.6	313.6	307.9	300.5	286.4	268.2	243.3	209.8	192.2
35°	352.7	352.1	348.7	345.9	338.5	329.5	313.6	293.2	264.8	227.4	207.5
37.5°	385.0	385.6	382.2	377.7	369.2	359.0	341.4	318.1	285.2	244.4	222.3
40°	418.5	419.1	415.1	408.3	399.2	387.3	368.0	342.5	306.2	260.8	235.3
42.5°	451.4	451.4	447.4	440.6	428.1	414.5	393.5	365.8	325.5	275.6	248.4
45°	482.6	482.6	477.5	469.0	455.4	440.0	417.4	386.7	343.1	289.2	259.7
47.5°	513.2	512.6	507.0	495.6	482.6	465.0	441.2	406.0	360.1	302.2	269.9
50°	541.5	541.5	533.6	521.1	504.7	487.1	461.6	424.7	376.0	314.2	279.6
52.5°	567.6	567.1	558.6	544.9	526.8	508.1	480.9	441.7	389.6	324.9	288.6
55°	591.4	590.9	581.2	565.9	547.2	526.8	498.4	457.6	403.2	335.1	296.6
57.5°	613.6	613.0	601.7	584.6	565.9	544.4	514.9	472.4	415.7	344.8	304.5
60°	633.4	632.3	620.9	602.2	582.4	560.3	530.8	486.5	427.0	353.3	311.9
62.5°	651.0	649.9	637.4	618.1	597.1	574.4	543.2	498.4	437.2	361.8	318.1
65°	666.9	665.7	653.3	632.3	610.7	587.5	555.7	509.8	446.8	369.2	324.9
67.5°	681.6	680.5	666.3	644.8	623.2	599.4	567.6	520.6	455.9	376.5	331.2
70°	695.2	693.0	678.2	656.7	633.4	609.0	577.8	530.2	464.4	383.3	336.8
72.5°	705.4	703.7	689.0	666.3	643.0	619.2	586.9	538.1	472.4	389.6	341.9
75°	714.5	713.4	698.1	674.8	651.0	626.6	594.8	544.9	478.6	395.8	347.0
77.5°	722.4	720.2	705.4	682.2	657.8	632.8	601.1	551.8	484.3	400.3	351.0
80°	728.1	726.4	711.1	687.3	662.9	637.9	606.2	556.9	488.8	404.3	354.4
82.5°	732.1	729.8	715.1	691.2	666.9	641.3	609.6	559.7	492.2	407.7	357.8
85°	734.3	732.6	717.3	694.1	669.1	643.6	611.9	562.5	495.0	410.6	360.1
87.5°	734.9	733.8	719.0	695.2	670.3	645.3	613.0	564.2	496.7	412.3	361.8
88°	735.5	733.2	719.0	695.2	670.8	645.3	613.0	564.8	496.7	412.8	362.4
90°	735.5	733.2	719.0	695.8	670.8	644.8	613.6	565.4	497.3	413.4	363.5
92.5°	733.8	732.1	717.9	695.2	670.3	644.2	613.0	564.8	497.9	414.5	364.6
95°	730.9	729.2	715.6	693.0	668.0	642.5	611.3	563.7	497.3	414.5	364.6
97.5°	726.4	724.7	711.7	689.0	664.6	639.1	607.9	561.4	495.6	414.0	364.6
100°	720.7	719.0	706.0	683.9	659.5	634.5	603.9	558.6	493.3	412.8	364.1
102.5°	713.4	711.1	698.6	677.1	653.8	628.9	598.8	553.5	489.9	410.6	362.9
105°	703.2	702.0	690.1	669.1	645.3	621.5	592.0	548.3	486.0	407.7	360.7
107.5°	693.5	691.8	679.9	659.5	637.4	614.1	585.2	542.1	481.4	404.9	359.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	682.2	680.5	668.6	649.3	627.2	605.1	576.7	535.3	476.3	401.5	357.2
112.5°	668.6	667.4	655.5	637.4	616.4	595.4	568.2	527.9	470.7	398.1	355.0
115°	655.0	653.3	641.9	624.9	604.5	584.6	558.6	519.4	463.9	394.1	352.7
117.5°	640.2	638.5	627.2	610.7	592.0	572.7	547.8	510.4	457.1	389.6	349.9
120°	623.2	622.1	611.3	596.0	579.0	560.3	535.9	500.7	449.7	385.0	347.0
122.5°	606.2	604.5	594.8	580.7	564.8	547.2	524.0	490.5	441.2	379.4	343.6
125°	587.5	586.3	577.3	564.2	549.5	533.0	510.9	478.0	432.1	373.7	339.7
127.5°	568.2	566.5	558.0	546.1	533.0	517.2	496.7	466.1	422.5	366.3	335.1
130°	547.2	546.1	538.1	527.4	514.3	500.1	480.9	451.9	411.1	358.4	328.9
132.5°	525.1	524.0	517.2	508.1	495.0	482.0	463.9	436.1	398.1	349.3	322.1
135°	502.4	501.9	495.6	487.1	475.2	463.3	445.7	420.2	385.0	339.7	314.2
137.5°	479.2	478.6	472.9	464.4	455.4	442.9	426.4	402.6	370.3	328.3	304.5
140°	454.2	453.7	449.1	441.2	431.5	421.3	405.4	383.9	353.8	315.3	294.3
142.5°	429.3	428.7	424.7	419.1	410.0	399.2	384.5	364.1	337.4	302.2	283.0
145°	404.9	404.3	400.9	395.2	386.7	377.1	362.9	345.3	320.4	288.6	271.6
147.5°	381.6	380.5	377.7	373.1	365.2	355.5	342.5	326.1	303.4	275.0	259.7
150°	356.7	356.1	352.7	349.3	341.4	333.4	321.0	306.8	285.8	260.3	246.7
152.5°	331.7	331.2	328.9	324.9	318.1	310.8	299.4	286.4	268.2	245.5	233.6
155°	307.3	306.8	304.5	301.7	294.9	288.1	277.9	266.0	249.5	230.2	219.5
157.5°	283.0	283.0	281.8	278.4	272.2	266.0	255.7	246.7	231.9	214.9	206.4
160°	259.1	259.1	258.6	255.2	250.1	244.4	235.3	226.3	214.9	200.2	192.8
162.5°	235.9	234.8	235.3	233.1	228.0	223.4	215.5	208.1	197.3	184.9	178.6
165°	213.8	213.2	213.8	211.5	207.0	203.0	195.6	190.0	180.9	170.1	165.6
167.5°	193.9	193.9	193.4	191.7	187.7	184.3	178.6	173.5	166.1	157.6	153.7
170°	176.4	175.2	175.8	174.1	171.3	168.4	163.3	158.8	153.1	146.3	143.5
172.5°	159.9	158.8	159.3	157.6	155.9	153.7	150.3	146.3	141.8	135.5	133.8
175°	145.2	144.6	144.6	143.5	142.3	140.6	137.2	135.0	132.1	128.7	127.6
177.5°	132.1	131.0	131.6	131.0	130.4	129.9	128.7	127.6	125.9	124.2	123.6
180°	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	46.5	44.2	41.4	38.6	35.7	33.5	32.3	30.6	30.6	29.5
5°	48.8	44.2	39.7	35.7	31.8	28.4	25.5	23.8	23.2	23.2
7.5°	56.7	51.6	45.9	40.8	36.3	32.3	28.9	26.1	25.0	24.4
10°	65.8	59.5	52.2	46.5	41.4	36.3	32.3	29.5	28.4	28.4
12.5°	75.4	67.5	59.0	51.6	44.8	39.7	35.7	33.5	32.3	31.8
15°	85.6	75.4	65.2	56.1	48.8	42.5	38.6	36.3	35.2	34.6
17.5°	95.8	83.4	71.4	60.7	51.6	45.4	40.3	36.9	35.7	35.7
20°	106.6	91.3	77.1	64.6	54.4	46.5	40.8	37.4	35.7	35.7
22.5°	119.1	100.4	82.8	68.6	56.7	48.2	42.0	38.0	35.7	35.7
25°	132.1	110.0	89.6	72.6	59.5	49.9	43.1	38.6	36.9	36.3
27.5°	146.9	119.7	96.4	76.6	62.4	51.6	44.2	39.7	37.4	37.4
30°	161.0	128.7	102.1	80.5	64.6	53.3	45.4	40.8	38.6	38.6
32.5°	174.7	137.8	107.2	83.9	66.9	55.0	47.1	42.0	40.3	39.7
35°	187.1	146.3	111.7	86.2	68.6	56.7	48.8	43.7	41.4	41.4
37.5°	199.0	153.7	115.7	88.5	70.3	57.8	50.5	45.4	43.1	43.1
40°	209.8	159.9	118.5	90.2	71.4	59.5	52.2	47.1	45.4	44.8
42.5°	220.0	165.0	120.8	91.3	72.6	61.2	53.9	49.3	47.1	47.1
45°	228.5	169.6	123.1	92.4	73.7	62.4	55.6	51.0	49.3	48.8
47.5°	236.5	173.5	124.2	93.6	74.9	64.1	57.3	53.3	51.6	51.0
50°	243.8	176.4	125.3	94.1	76.0	65.8	59.0	55.6	53.9	53.3
52.5°	250.6	179.2	125.9	94.7	77.1	66.9	61.2	57.3	55.6	55.6
55°	256.3	182.0	127.0	95.8	78.3	69.2	62.9	60.1	58.4	57.8
57.5°	262.6	184.3	128.2	96.4	80.0	70.9	65.2	62.4	60.7	60.1
60°	267.7	186.6	129.3	97.5	81.1	72.6	67.5	64.6	62.9	62.4
62.5°	272.8	188.3	129.9	98.7	82.8	74.9	69.7	66.9	65.2	64.6
65°	277.3	190.5	131.6	100.4	84.5	76.6	72.0	69.2	67.5	67.5
67.5°	281.8	192.8	132.7	101.5	86.8	78.8	74.3	71.4	69.7	69.7
70°	286.4	194.5	133.8	103.2	88.5	81.1	76.6	73.7	72.0	72.0
72.5°	290.3	196.8	135.5	105.5	90.7	83.4	78.8	76.0	74.3	74.3
75°	293.7	198.5	137.2	107.2	92.4	85.6	81.1	78.3	76.6	76.0
77.5°	297.7	200.7	139.5	108.9	94.7	87.9	83.4	80.5	78.3	78.3
80°	300.5	201.9	141.2	110.6	97.0	89.6	85.1	82.2	80.5	80.0
82.5°	303.4	204.1	142.9	112.3	98.7	91.3	86.8	83.9	82.2	81.7
85°	305.1	205.3	144.0	114.0	100.4	93.0	88.5	85.1	83.4	82.8
87.5°	306.8	207.0	145.7	115.7	102.1	94.7	90.2	86.8	84.5	83.9
88°	307.3	207.5	146.9	116.2	102.1	95.3	90.2	86.8	85.1	84.5
90°	308.5	208.7	148.0	117.4	103.2	95.8	91.3	87.3	85.6	85.1
92.5°	309.0	209.8	149.1	118.5	104.9	97.0	91.9	88.5	86.2	85.6
95°	310.2	210.9	150.8	120.2	106.0	98.1	92.4	89.0	86.8	86.2
97.5°	310.2	212.1	152.5	121.4	106.6	98.7	93.0	89.0	86.8	86.2
100°	310.2	213.2	154.2	122.5	107.7	98.7	93.0	89.0	86.8	86.2
102.5°	309.6	214.9	155.9	124.2	108.3	99.2	93.0	88.5	86.2	86.2
105°	309.0	216.1	157.6	125.9	109.4	99.2	92.4	87.9	85.6	85.6
107.5°	309.0	218.3	160.5	127.6	110.0	99.2	91.9	87.3	85.1	84.5



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	308.5	220.6	163.9	130.4	111.7	99.8	91.9	86.8	83.9	83.9
112.5°	307.9	223.4	166.7	132.7	112.8	99.8	91.3	85.6	83.4	82.8
115°	308.5	226.3	170.7	135.5	114.5	100.4	90.7	85.1	82.2	81.7
117.5°	307.3	229.1	174.7	138.9	116.2	100.9	90.7	84.5	81.1	81.1
120°	306.8	231.9	178.6	143.5	118.5	101.5	90.2	83.4	80.5	80.0
122.5°	305.6	234.8	182.6	146.9	120.8	102.6	90.2	82.8	79.4	79.4
125°	303.9	236.5	185.4	149.7	122.5	103.2	90.2	82.8	78.8	78.3
127.5°	301.1	237.6	188.8	152.5	124.2	104.3	90.2	82.2	78.3	77.7
130°	297.7	238.2	190.5	154.8	125.9	104.9	90.7	82.2	78.3	77.7
132.5°	292.6	237.6	191.7	156.5	127.6	106.0	91.3	82.2	78.3	77.7
135°	287.5	235.9	192.2	157.6	128.7	107.2	91.9	82.2	78.3	77.7
137.5°	280.1	233.1	192.2	158.2	129.3	107.7	92.4	82.8	78.8	78.3
140°	272.2	228.5	190.0	158.2	129.9	108.9	93.6	83.9	79.4	78.8
142.5°	263.1	224.0	188.3	157.1	129.9	109.4	94.1	84.5	80.0	80.0
145°	253.5	218.3	184.9	156.5	129.9	110.0	95.3	85.6	81.1	81.1
147.5°	243.8	212.1	181.5	154.8	129.9	110.6	96.4	87.3	82.8	82.2
150°	233.1	204.1	176.4	151.4	128.7	110.6	97.0	88.5	83.9	83.4
152.5°	221.2	195.6	171.3	148.6	127.0	110.6	98.1	89.6	85.6	85.6
155°	209.2	186.6	165.0	144.6	125.9	111.1	99.8	91.9	87.9	87.9
157.5°	196.8	178.1	158.8	140.6	124.2	111.1	100.9	94.1	90.7	90.2
160°	184.9	169.0	152.5	136.1	122.5	111.1	102.1	95.8	93.0	92.4
162.5°	172.4	158.8	145.2	131.6	119.7	110.0	102.6	97.5	94.7	94.7
165°	159.9	149.1	136.7	126.5	116.8	109.4	103.2	98.7	96.4	96.4
167.5°	149.7	140.1	130.4	121.9	115.1	108.9	103.8	100.4	98.7	98.7
170°	139.5	132.1	125.3	119.1	113.4	108.3	104.9	102.6	100.9	100.9
172.5°	131.6	126.5	121.4	116.8	112.8	109.4	106.6	104.9	103.8	103.8
175°	125.9	122.5	119.7	116.2	114.0	111.7	110.0	108.9	108.3	108.9
177.5°	123.1	121.4	119.7	117.9	117.4	116.2	115.1	114.5	114.5	115.1
180°	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5	122.5

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