

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: P256834

Luminaire Tested: **ULA-A3-D-U-SYM-VMx-7030-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256834
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-A3-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: 2521 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U5 - G2

Input Watts (W): 21.1
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



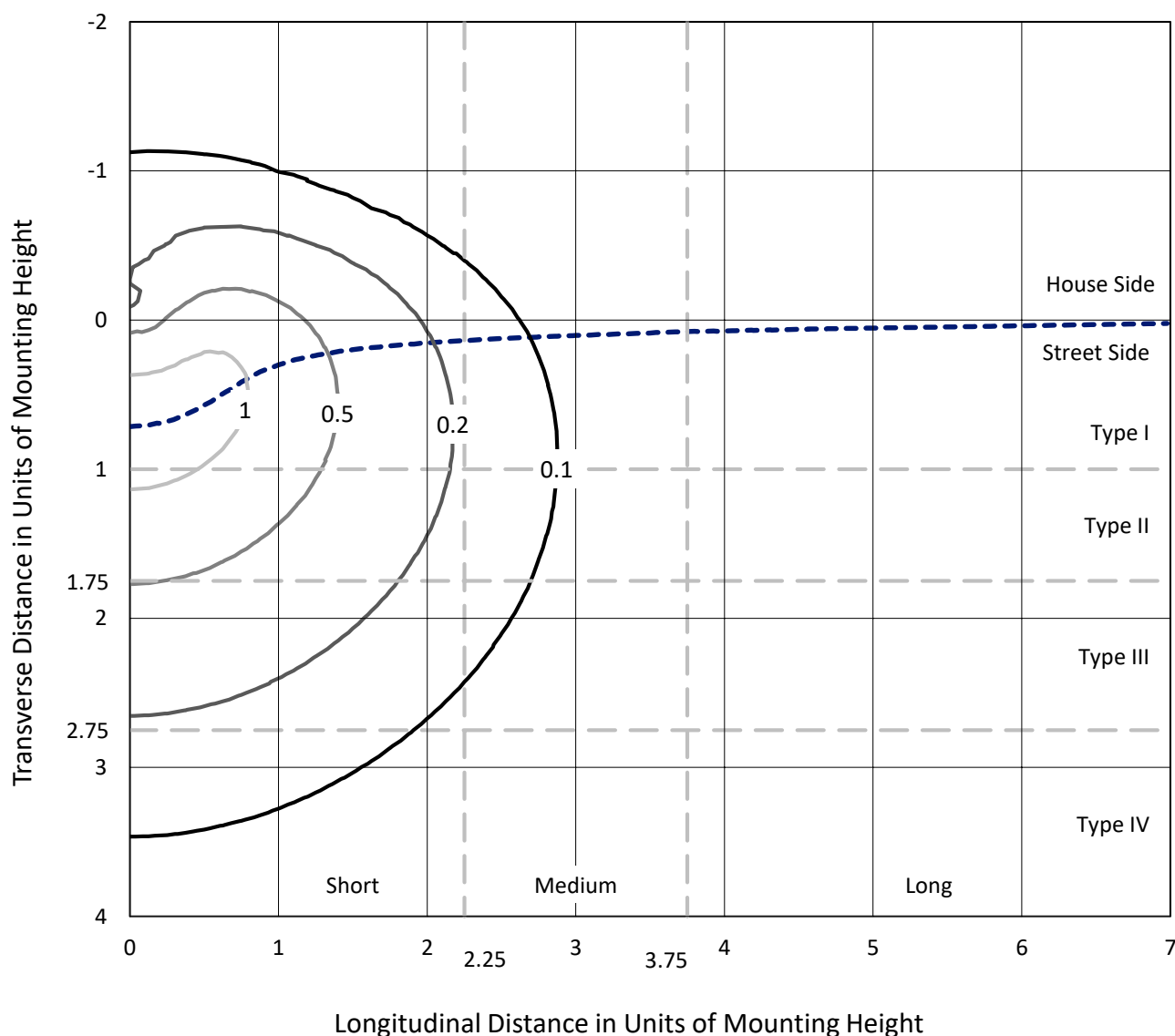
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

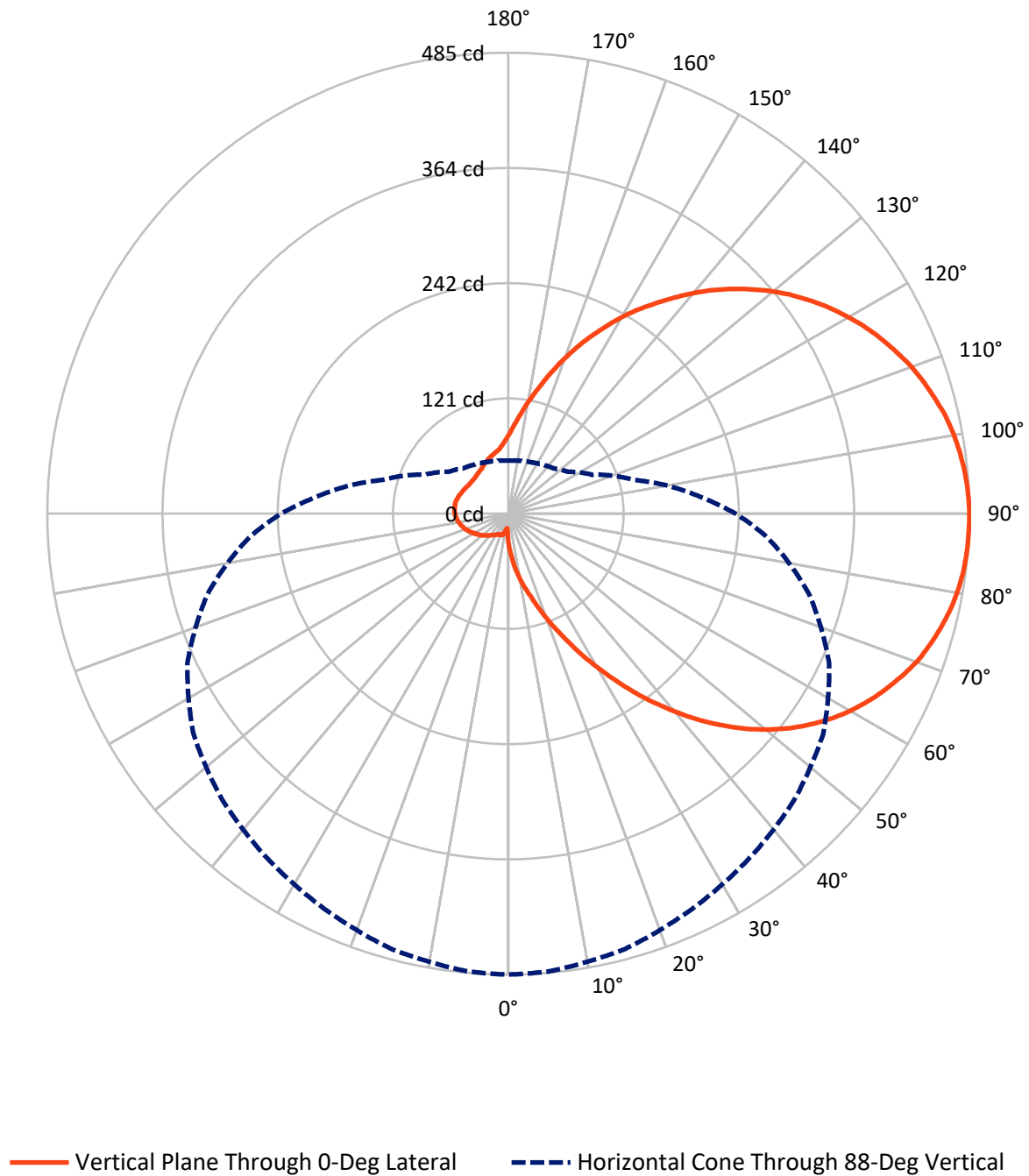


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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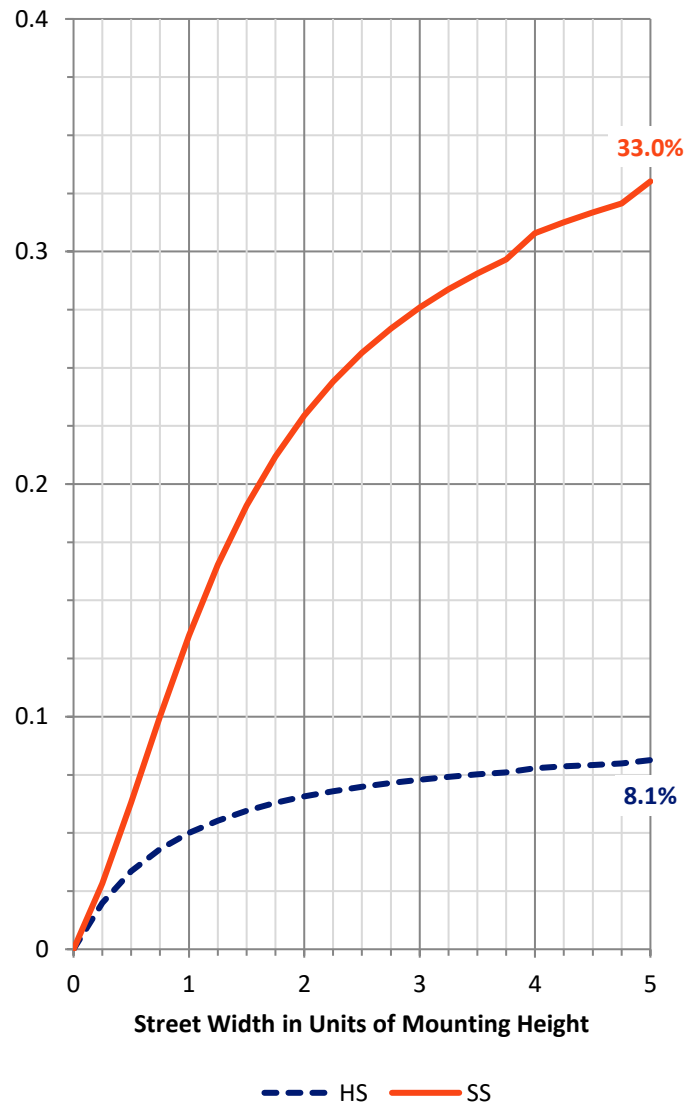
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	228.0	299.2	527.2
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	976.1	1017.7	1993.8
	% Fixture	38.7	40.4	79.1
Total	Lumens	1204.1	1316.9	2521.0
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	17.0	0.7
20°-30°	42.9	1.7
30°-40°	83.4	3.3
40°-50°	132.5	5.3
50°-60°	180.5	7.2
60°-70°	221.7	8.8
70°-80°	252.7	10.0
80°-90°	269.8	10.7
90°-100°	271.4	10.8
100°-110°	257.4	10.2
110°-120°	231.1	9.2
120°-130°	195.7	7.8
130°-140°	152.4	6.0
140°-150°	106.1	4.2
150°-160°	63.9	2.5
160°-170°	30.5	1.2
170°-180°	8.3	0.3
0°-90°	1204.1	47.8
0°-180°	2521.0	100.0

Coefficient of Utilization



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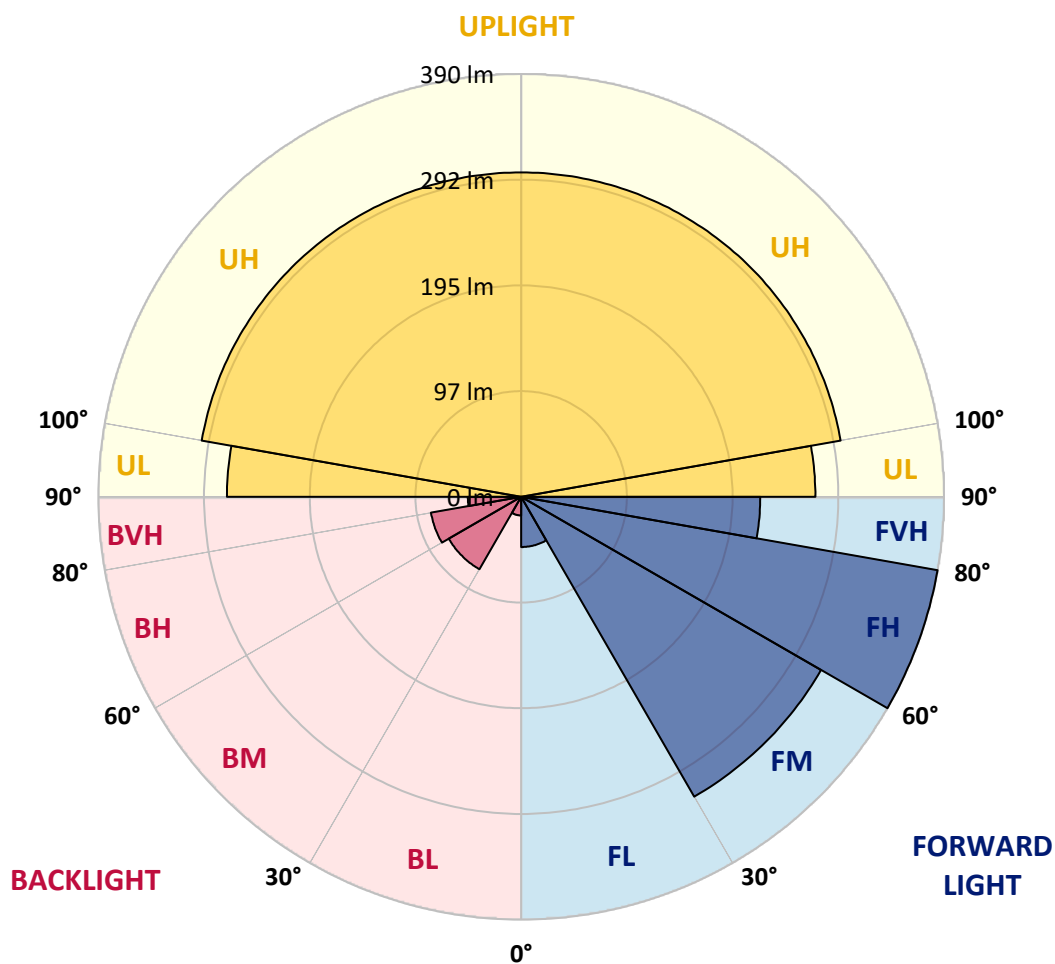
CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	46.3	1.8			
FM	(30°-60°)	319.3	12.7			
FH	(60°-80°)	390.0	15.5			G0/660
FVH	(80°-90°)	220.5	8.7			G2/225
BL	(0°-30°)	17.2	0.7	B0/110		
BM	(30°-60°)	77.1	3.1	B0/220		
BH	(60°-80°)	84.4	3.3	B0/110		G0/110
BVH	(80°-90°)	49.3	2.0			G1/100
UL	(90°-100°)	271.4	10.8		U3/500	
UH	(100°-180°)	299.2	11.9		U3/500	

BUG Rating: B0-U5-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
2.5°	40.0	40.0	39.3	39.6	38.5	37.8	36.3	34.8	33.6	32.2	31.4
5°	50.8	50.1	49.4	48.6	46.7	44.9	43.0	40.4	37.8	35.1	33.6
7.5°	60.9	60.6	59.1	58.0	55.7	53.5	50.8	47.5	44.5	41.1	39.3
10°	71.0	70.7	69.2	68.0	65.4	63.2	59.8	56.1	52.3	47.9	45.6
12.5°	81.1	80.8	79.3	78.5	76.3	73.7	69.9	65.1	60.6	55.3	52.7
15°	91.6	91.6	91.2	89.7	87.1	84.5	80.8	75.1	69.5	63.2	60.2
17.5°	105.4	104.7	103.6	102.4	100.2	97.2	91.6	86.4	79.3	71.8	67.3
20°	119.6	118.9	118.1	116.7	113.7	110.7	105.1	98.7	89.7	80.8	75.1
22.5°	135.0	134.2	133.5	132.0	129.0	125.6	119.6	112.2	102.8	91.2	84.1
25°	151.8	151.8	150.7	149.2	145.8	142.4	135.3	127.1	116.3	102.4	94.6
27.5°	170.9	169.7	169.4	167.5	164.5	160.4	152.9	143.2	130.5	114.4	105.8
30°	189.9	189.6	189.2	186.9	183.6	179.1	170.5	160.4	145.1	126.4	116.3
32.5°	210.5	210.9	209.4	206.8	203.0	198.2	188.8	176.8	160.4	138.3	126.7
35°	232.6	232.2	229.9	228.1	223.2	217.2	206.8	193.3	174.6	149.9	136.8
37.5°	253.9	254.2	252.0	249.0	243.4	236.7	225.1	209.7	188.1	161.1	146.6
40°	275.9	276.3	273.7	269.2	263.2	255.4	242.6	225.8	201.9	172.0	155.2
42.5°	297.6	297.6	295.0	290.5	282.3	273.3	259.5	241.2	214.6	181.7	163.8
45°	318.2	318.2	314.8	309.2	300.2	290.1	275.2	255.0	226.2	190.7	171.2
47.5°	338.4	338.0	334.2	326.8	318.2	306.6	290.9	267.7	237.4	199.3	178.0
50°	357.1	357.1	351.8	343.6	332.8	321.2	304.3	280.0	247.9	207.1	184.3
52.5°	374.3	373.9	368.3	359.3	347.3	335.0	317.0	291.3	256.9	214.2	190.3
55°	390.0	389.6	383.2	373.1	360.8	347.3	328.6	301.7	265.8	221.0	195.5
57.5°	404.5	404.2	396.7	385.5	373.1	358.9	339.5	311.4	274.1	227.3	200.8
60°	417.6	416.9	409.4	397.1	384.0	369.4	350.0	320.8	281.5	232.9	205.6
62.5°	429.2	428.5	420.2	407.5	393.7	378.7	358.2	328.6	288.3	238.5	209.7
65°	439.7	438.9	430.7	416.9	402.7	387.3	366.4	336.1	294.6	243.4	214.2
67.5°	449.4	448.7	439.3	425.1	410.9	395.2	374.3	343.2	300.6	248.3	218.3
70°	458.4	456.9	447.2	433.0	417.6	401.5	381.0	349.6	306.2	252.7	222.1
72.5°	465.1	464.0	454.3	439.3	424.0	408.3	387.0	354.8	311.4	256.9	225.4
75°	471.1	470.3	460.2	444.9	429.2	413.1	392.2	359.3	315.6	261.0	228.8
77.5°	476.3	474.8	465.1	449.8	433.7	417.2	396.3	363.8	319.3	264.0	231.4
80°	480.1	478.9	468.8	453.1	437.1	420.6	399.7	367.1	322.3	266.6	233.7
82.5°	482.7	481.2	471.5	455.8	439.7	422.9	401.9	369.0	324.5	268.8	235.9
85°	484.2	483.1	473.0	457.6	441.2	424.4	403.4	370.9	326.4	270.7	237.4
87.5°	484.5	483.8	474.1	458.4	441.9	425.5	404.2	372.0	327.5	271.8	238.5
88°	484.9	483.4	474.1	458.4	442.3	425.5	404.2	372.4	327.5	272.2	238.9
90°	484.9	483.4	474.1	458.7	442.3	425.1	404.5	372.8	327.9	272.6	239.7
92.5°	483.8	482.7	473.3	458.4	441.9	424.7	404.2	372.4	328.3	273.3	240.4
95°	481.9	480.8	471.8	456.9	440.4	423.6	403.0	371.6	327.9	273.3	240.4
97.5°	478.9	477.8	469.2	454.3	438.2	421.4	400.8	370.1	326.8	272.9	240.4
100°	475.2	474.1	465.5	450.9	434.8	418.4	398.2	368.3	325.3	272.2	240.0
102.5°	470.3	468.8	460.6	446.4	431.1	414.6	394.8	364.9	323.0	270.7	239.3
105°	463.6	462.9	455.0	441.2	425.5	409.8	390.3	361.5	320.4	268.8	237.8
107.5°	457.3	456.1	448.3	434.8	420.2	404.9	385.8	357.4	317.4	266.9	236.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	449.8	448.7	440.8	428.1	413.5	398.9	380.2	352.9	314.1	264.7	235.5
112.5°	440.8	440.1	432.2	420.2	406.4	392.6	374.6	348.1	310.3	262.5	234.0
115°	431.8	430.7	423.2	412.0	398.6	385.5	368.3	342.5	305.8	259.8	232.6
117.5°	422.1	421.0	413.5	402.7	390.3	377.6	361.2	336.5	301.3	256.9	230.7
120°	410.9	410.1	403.0	392.9	381.7	369.4	353.3	330.1	296.5	253.9	228.8
122.5°	399.7	398.6	392.2	382.9	372.4	360.8	345.5	323.4	290.9	250.1	226.6
125°	387.3	386.6	380.6	372.0	362.3	351.4	336.9	315.2	284.9	246.4	224.0
127.5°	374.6	373.5	367.9	360.0	351.4	341.0	327.5	307.3	278.5	241.5	221.0
130°	360.8	360.0	354.8	347.7	339.1	329.8	317.0	298.0	271.1	236.3	216.9
132.5°	346.2	345.5	341.0	335.0	326.4	317.8	305.8	287.5	262.5	230.3	212.4
135°	331.3	330.9	326.8	321.2	313.3	305.5	293.9	277.0	253.9	224.0	207.1
137.5°	315.9	315.6	311.8	306.2	300.2	292.0	281.2	265.5	244.1	216.5	200.8
140°	299.5	299.1	296.1	290.9	284.5	277.8	267.3	253.1	233.3	207.9	194.0
142.5°	283.0	282.7	280.0	276.3	270.3	263.2	253.5	240.0	222.5	199.3	186.6
145°	266.9	266.6	264.3	260.6	255.0	248.6	239.3	227.7	211.2	190.3	179.1
147.5°	251.6	250.9	249.0	246.0	240.8	234.4	225.8	215.0	200.0	181.3	171.2
150°	235.2	234.8	232.6	230.3	225.1	219.8	211.6	202.3	188.4	171.6	162.6
152.5°	218.7	218.3	216.9	214.2	209.7	204.9	197.4	188.8	176.8	161.9	154.0
155°	202.6	202.3	200.8	198.9	194.4	189.9	183.2	175.3	164.5	151.8	144.7
157.5°	186.6	186.6	185.8	183.6	179.5	175.3	168.6	162.6	152.9	141.7	136.1
160°	170.9	170.9	170.5	168.2	164.9	161.1	155.2	149.2	141.7	132.0	127.1
162.5°	155.5	154.8	155.2	153.7	150.3	147.3	142.1	137.2	130.1	121.9	117.8
165°	141.0	140.6	141.0	139.5	136.5	133.8	129.0	125.2	119.3	112.2	109.2
167.5°	127.9	127.9	127.5	126.4	123.8	121.5	117.8	114.4	109.5	103.9	101.3
170°	116.3	115.5	115.9	114.8	112.9	111.0	107.7	104.7	100.9	96.5	94.6
172.5°	105.4	104.7	105.1	103.9	102.8	101.3	99.1	96.5	93.5	89.4	88.2
175°	95.7	95.3	95.3	94.6	93.8	92.7	90.5	89.0	87.1	84.9	84.1
177.5°	87.1	86.4	86.7	86.4	86.0	85.6	84.9	84.1	83.0	81.9	81.5
180°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8



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CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
2.5°	30.7	29.2	27.3	25.4	23.6	22.1	21.3	20.2	20.2	19.4
5°	32.2	29.2	26.2	23.6	20.9	18.7	16.8	15.7	15.3	15.3
7.5°	37.4	34.0	30.3	26.9	23.9	21.3	19.1	17.2	16.5	16.1
10°	43.4	39.3	34.4	30.7	27.3	23.9	21.3	19.4	18.7	18.7
12.5°	49.7	44.5	38.9	34.0	29.5	26.2	23.6	22.1	21.3	20.9
15°	56.5	49.7	43.0	37.0	32.2	28.0	25.4	23.9	23.2	22.8
17.5°	63.2	55.0	47.1	40.0	34.0	29.9	26.5	24.3	23.6	23.6
20°	70.3	60.2	50.8	42.6	35.9	30.7	26.9	24.7	23.6	23.6
22.5°	78.5	66.2	54.6	45.2	37.4	31.8	27.7	25.0	23.6	23.6
25°	87.1	72.5	59.1	47.9	39.3	32.9	28.4	25.4	24.3	23.9
27.5°	96.8	78.9	63.6	50.5	41.1	34.0	29.2	26.2	24.7	24.7
30°	106.2	84.9	67.3	53.1	42.6	35.1	29.9	26.9	25.4	25.4
32.5°	115.2	90.9	70.7	55.3	44.1	36.3	31.0	27.7	26.5	26.2
35°	123.4	96.5	73.7	56.8	45.2	37.4	32.2	28.8	27.3	27.3
37.5°	131.2	101.3	76.3	58.3	46.4	38.1	33.3	29.9	28.4	28.4
40°	138.3	105.4	78.1	59.4	47.1	39.3	34.4	31.0	29.9	29.5
42.5°	145.1	108.8	79.6	60.2	47.9	40.4	35.5	32.5	31.0	31.0
45°	150.7	111.8	81.1	60.9	48.6	41.1	36.6	33.6	32.5	32.2
47.5°	155.9	114.4	81.9	61.7	49.4	42.2	37.8	35.1	34.0	33.6
50°	160.8	116.3	82.6	62.1	50.1	43.4	38.9	36.6	35.5	35.1
52.5°	165.3	118.1	83.0	62.4	50.8	44.1	40.4	37.8	36.6	36.6
55°	169.0	120.0	83.7	63.2	51.6	45.6	41.5	39.6	38.5	38.1
57.5°	173.1	121.5	84.5	63.6	52.7	46.7	43.0	41.1	40.0	39.6
60°	176.5	123.0	85.2	64.3	53.5	47.9	44.5	42.6	41.5	41.1
62.5°	179.8	124.1	85.6	65.1	54.6	49.4	46.0	44.1	43.0	42.6
65°	182.8	125.6	86.7	66.2	55.7	50.5	47.5	45.6	44.5	44.5
67.5°	185.8	127.1	87.5	66.9	57.2	52.0	49.0	47.1	46.0	46.0
70°	188.8	128.2	88.2	68.0	58.3	53.5	50.5	48.6	47.5	47.5
72.5°	191.4	129.7	89.4	69.5	59.8	55.0	52.0	50.1	49.0	49.0
75°	193.7	130.9	90.5	70.7	60.9	56.5	53.5	51.6	50.5	50.1
77.5°	196.3	132.4	92.0	71.8	62.4	58.0	55.0	53.1	51.6	51.6
80°	198.2	133.1	93.1	72.9	63.9	59.1	56.1	54.2	53.1	52.7
82.5°	200.0	134.6	94.2	74.0	65.1	60.2	57.2	55.3	54.2	53.8
85°	201.1	135.3	95.0	75.1	66.2	61.3	58.3	56.1	55.0	54.6
87.5°	202.3	136.5	96.1	76.3	67.3	62.4	59.4	57.2	55.7	55.3
88°	202.6	136.8	96.8	76.6	67.3	62.8	59.4	57.2	56.1	55.7
90°	203.4	137.6	97.6	77.4	68.0	63.2	60.2	57.6	56.5	56.1
92.5°	203.8	138.3	98.3	78.1	69.2	63.9	60.6	58.3	56.8	56.5
95°	204.5	139.1	99.5	79.3	69.9	64.7	60.9	58.7	57.2	56.8
97.5°	204.5	139.8	100.6	80.0	70.3	65.1	61.3	58.7	57.2	56.8
100°	204.5	140.6	101.7	80.8	71.0	65.1	61.3	58.7	57.2	56.8
102.5°	204.1	141.7	102.8	81.9	71.4	65.4	61.3	58.3	56.8	56.8
105°	203.8	142.4	103.9	83.0	72.2	65.4	60.9	58.0	56.5	56.5
107.5°	203.8	143.9	105.8	84.1	72.5	65.4	60.6	57.6	56.1	55.7



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CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	203.4	145.4	108.1	86.0	73.7	65.8	60.6	57.2	55.3	55.3
112.5°	203.0	147.3	109.9	87.5	74.4	65.8	60.2	56.5	55.0	54.6
115°	203.4	149.2	112.5	89.4	75.5	66.2	59.8	56.1	54.2	53.8
117.5°	202.6	151.0	115.2	91.6	76.6	66.6	59.8	55.7	53.5	53.5
120°	202.3	152.9	117.8	94.6	78.1	66.9	59.4	55.0	53.1	52.7
122.5°	201.5	154.8	120.4	96.8	79.6	67.7	59.4	54.6	52.3	52.3
125°	200.4	155.9	122.3	98.7	80.8	68.0	59.4	54.6	52.0	51.6
127.5°	198.5	156.7	124.5	100.6	81.9	68.8	59.4	54.2	51.6	51.2
130°	196.3	157.0	125.6	102.1	83.0	69.2	59.8	54.2	51.6	51.2
132.5°	192.9	156.7	126.4	103.2	84.1	69.9	60.2	54.2	51.6	51.2
135°	189.6	155.5	126.7	103.9	84.9	70.7	60.6	54.2	51.6	51.2
137.5°	184.7	153.7	126.7	104.3	85.2	71.0	60.9	54.6	52.0	51.6
140°	179.5	150.7	125.2	104.3	85.6	71.8	61.7	55.3	52.3	52.0
142.5°	173.5	147.7	124.1	103.6	85.6	72.2	62.1	55.7	52.7	52.7
145°	167.1	143.9	121.9	103.2	85.6	72.5	62.8	56.5	53.5	53.5
147.5°	160.8	139.8	119.6	102.1	85.6	72.9	63.6	57.6	54.6	54.2
150°	153.7	134.6	116.3	99.8	84.9	72.9	63.9	58.3	55.3	55.0
152.5°	145.8	129.0	112.9	98.0	83.7	72.9	64.7	59.1	56.5	56.5
155°	138.0	123.0	108.8	95.3	83.0	73.3	65.8	60.6	58.0	58.0
157.5°	129.7	117.4	104.7	92.7	81.9	73.3	66.6	62.1	59.8	59.4
160°	121.9	111.4	100.6	89.7	80.8	73.3	67.3	63.2	61.3	60.9
162.5°	113.7	104.7	95.7	86.7	78.9	72.5	67.7	64.3	62.4	62.4
165°	105.4	98.3	90.1	83.4	77.0	72.2	68.0	65.1	63.6	63.6
167.5°	98.7	92.3	86.0	80.4	75.9	71.8	68.4	66.2	65.1	65.1
170°	92.0	87.1	82.6	78.5	74.8	71.4	69.2	67.7	66.6	66.6
172.5°	86.7	83.4	80.0	77.0	74.4	72.2	70.3	69.2	68.4	68.4
175°	83.0	80.8	78.9	76.6	75.1	73.7	72.5	71.8	71.4	71.8
177.5°	81.1	80.0	78.9	77.8	77.4	76.6	75.9	75.5	75.5	75.9
180°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8

(END OF REPORT)