

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: P256837

Luminaire Tested: **ULA-A4-D-U-SYM-VMx-7030-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256837
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-A4-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: 3113.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U5 - G3

Input Watts (W): 29.1
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



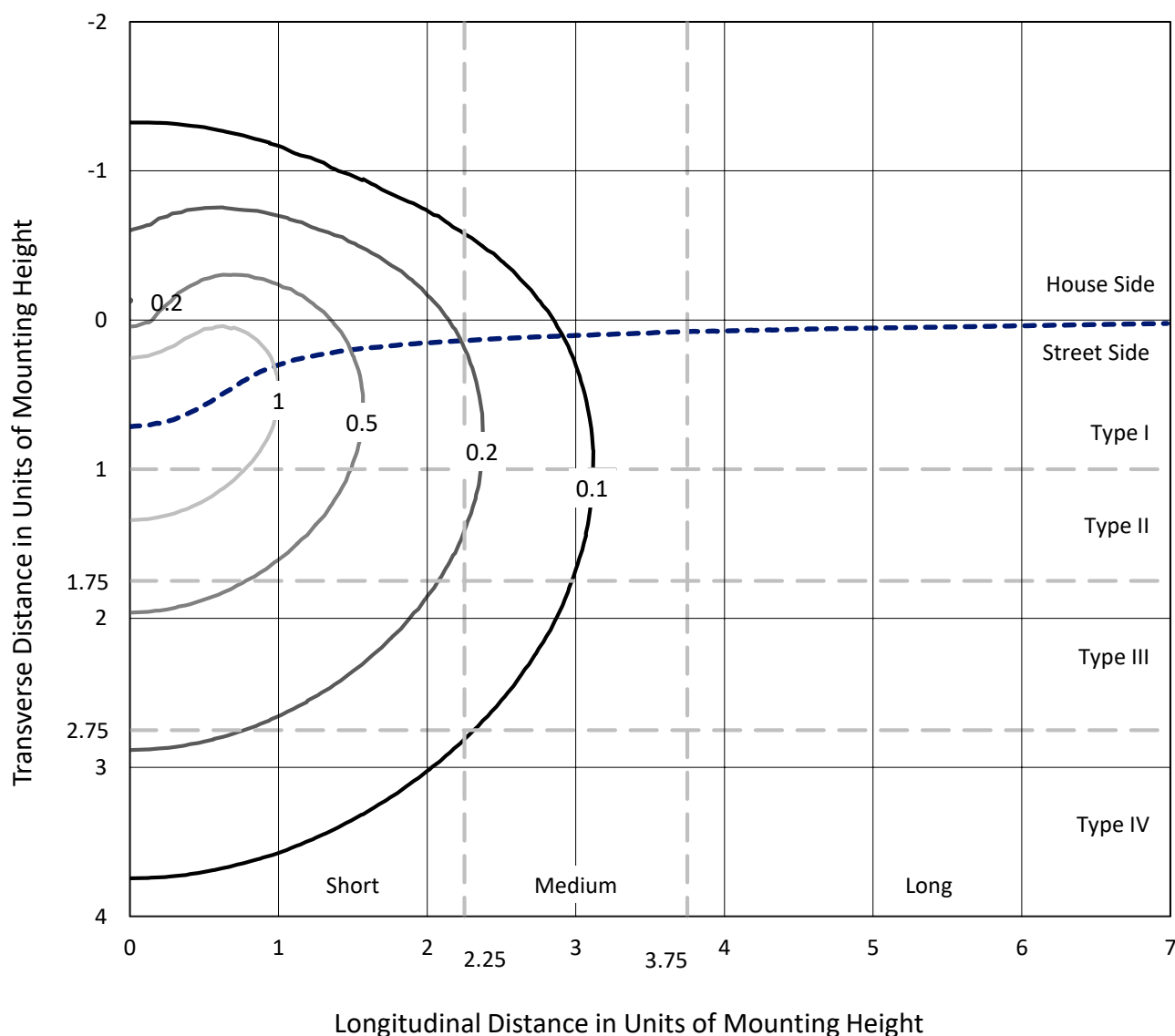
REPORT NUMBER: P256837

CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

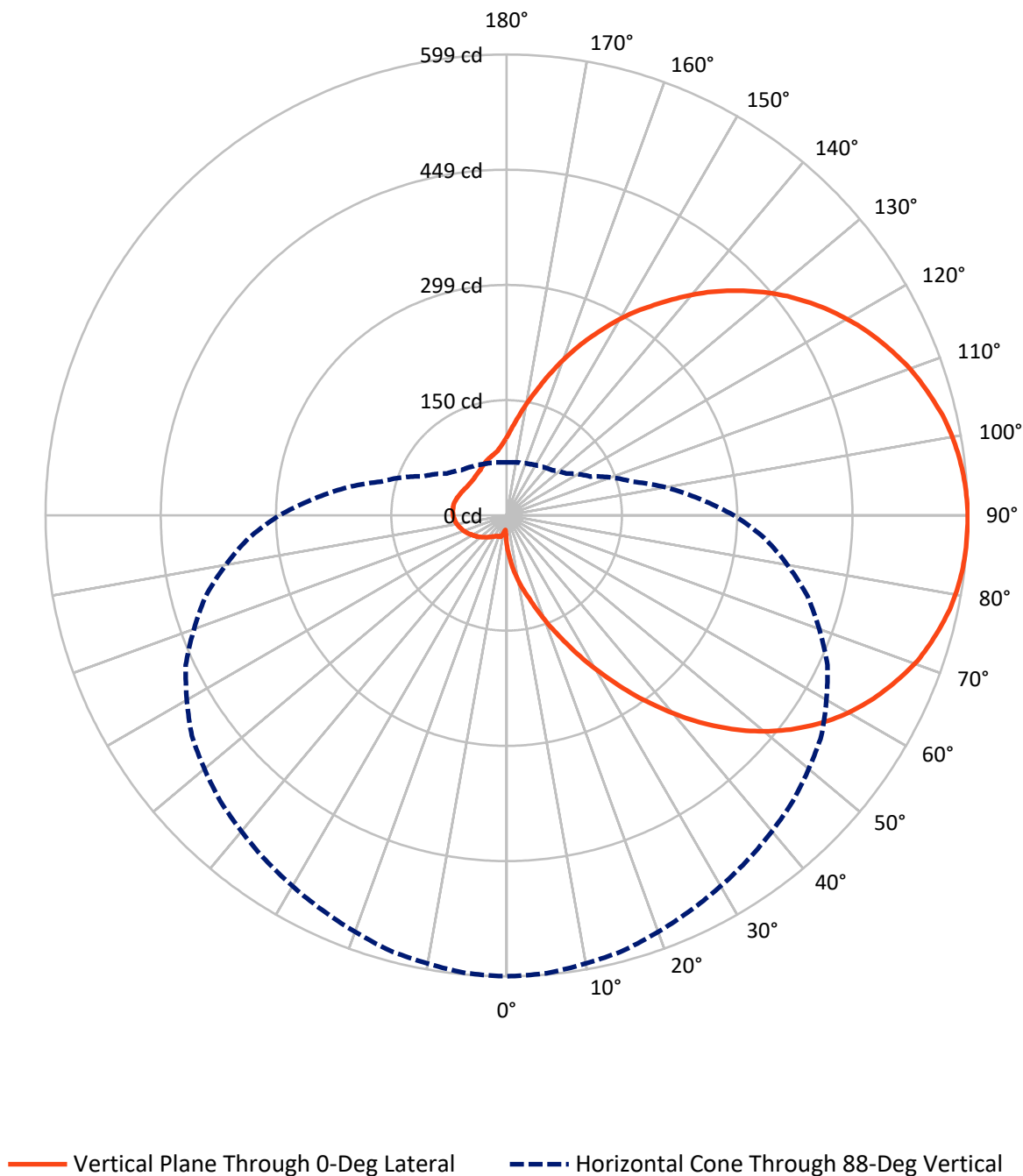


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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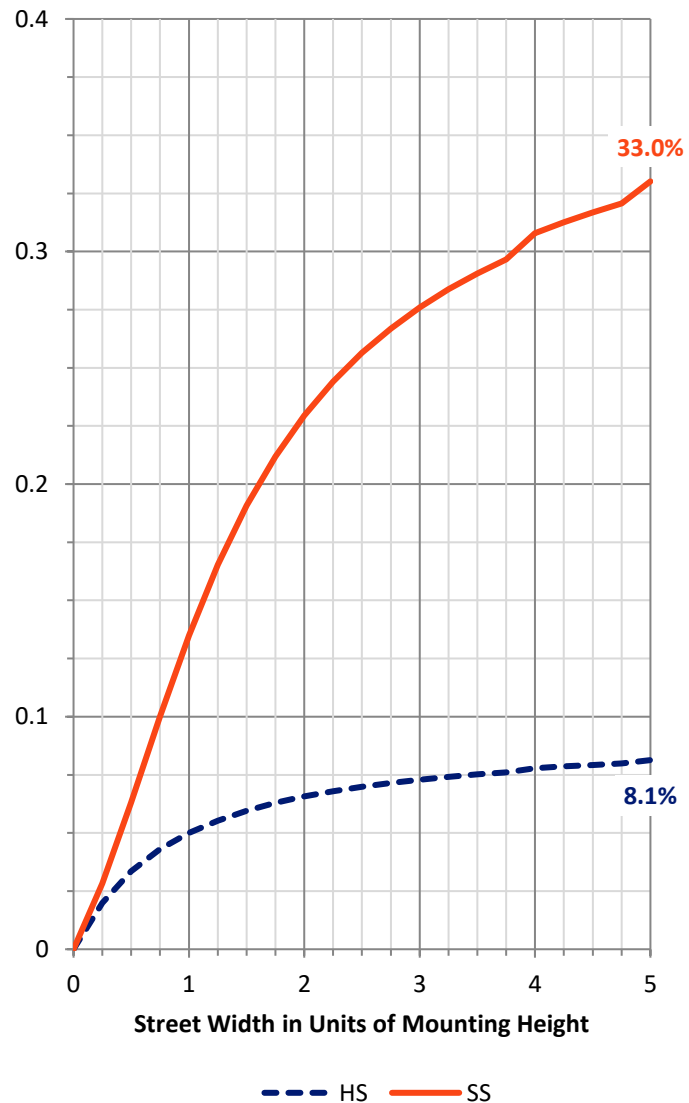
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.5	369.5	651.1
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1205.6	1256.9	2462.5
	% Fixture	38.7	40.4	79.1
Total	Lumens	1487.1	1626.5	3113.6
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	21.0	0.7
20°-30°	52.9	1.7
30°-40°	103.0	3.3
40°-50°	163.6	5.3
50°-60°	223.0	7.2
60°-70°	273.8	8.8
70°-80°	312.2	10.0
80°-90°	333.2	10.7
90°-100°	335.2	10.8
100°-110°	318.0	10.2
110°-120°	285.5	9.2
120°-130°	241.7	7.8
130°-140°	188.3	6.0
140°-150°	131.1	4.2
150°-160°	78.9	2.5
160°-170°	37.7	1.2
170°-180°	10.2	0.3
0°-90°	1487.1	47.8
0°-180°	3113.6	100.0

Coefficient of Utilization



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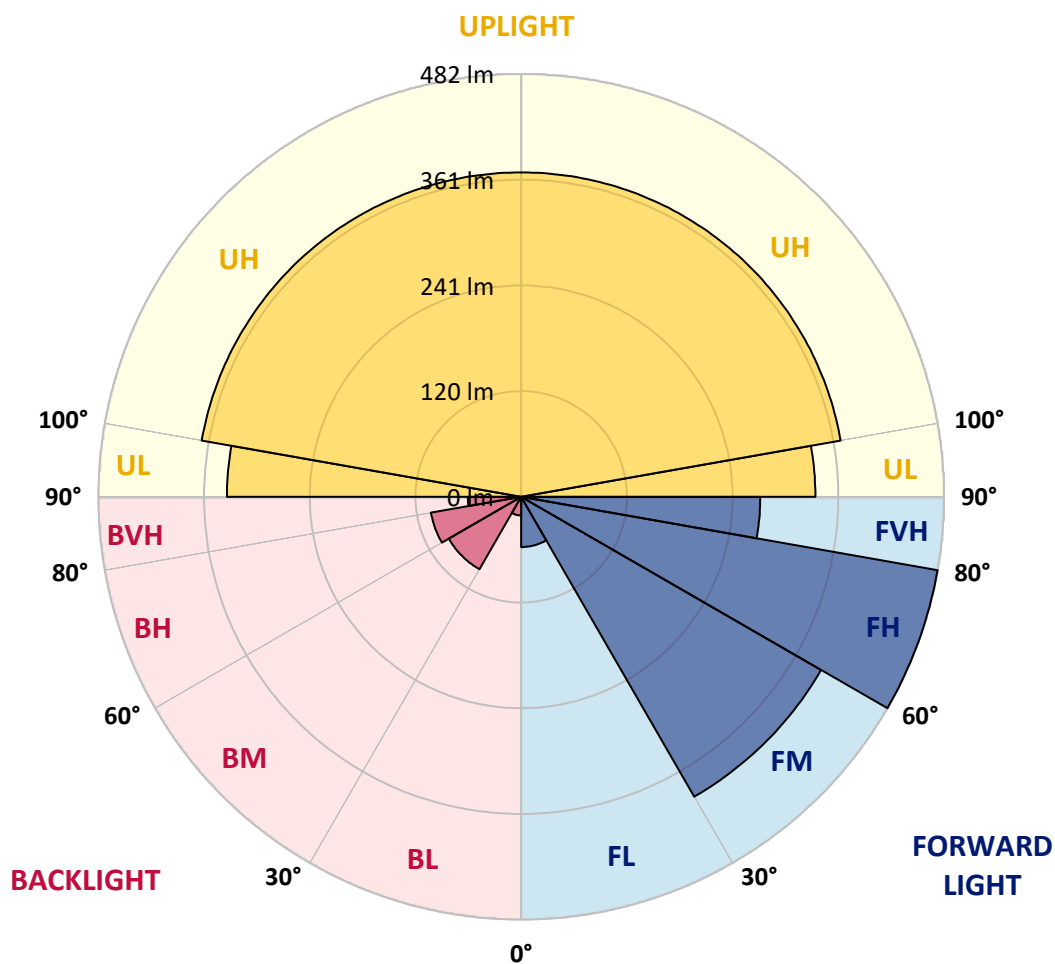
CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.2	1.8			
FM	(30°-60°)	394.4	12.7			
FH	(60°-80°)	481.7	15.5			G0/660
FVH	(80°-90°)	272.3	8.7			G3/500
BL	(0°-30°)	21.2	0.7	B0/110		
BM	(30°-60°)	95.2	3.1	B0/220		
BH	(60°-80°)	104.3	3.3	B0/110		G0/110
BVH	(80°-90°)	60.8	2.0			G1/100
UL	(90°-100°)	335.2	10.8		U3/500	
UH	(100°-180°)	369.5	11.9		U3/500	

BUG Rating: B0-U5-G3

Type IV Short





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CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	49.4	49.4	48.5	48.9	47.6	46.6	44.8	42.9	41.6	39.7	38.8
5°	62.8	61.9	61.0	60.0	57.7	55.4	53.1	49.9	46.6	43.4	41.6
7.5°	75.3	74.8	73.0	71.6	68.8	66.0	62.8	58.6	55.0	50.8	48.5
10°	87.7	87.3	85.4	84.0	80.8	78.0	73.9	69.3	64.6	59.1	56.3
12.5°	100.2	99.7	97.9	97.0	94.2	91.0	86.4	80.3	74.8	68.3	65.1
15°	113.1	113.1	112.7	110.8	107.6	104.4	99.7	92.8	85.9	78.0	74.3
17.5°	130.2	129.3	127.9	126.5	123.8	120.1	113.1	106.7	97.9	88.7	83.1
20°	147.8	146.8	145.9	144.1	140.4	136.7	129.8	121.9	110.8	99.7	92.8
22.5°	166.7	165.8	164.9	163.0	159.3	155.2	147.8	138.5	127.0	112.7	103.9
25°	187.5	187.5	186.1	184.2	180.1	175.9	167.2	157.0	143.6	126.5	116.8
27.5°	211.0	209.6	209.2	206.9	203.2	198.1	188.9	176.9	161.2	141.3	130.7
30°	234.6	234.1	233.7	230.9	226.7	221.2	210.6	198.1	179.2	156.1	143.6
32.5°	260.0	260.4	258.6	255.4	250.7	244.7	233.2	218.4	198.1	170.9	156.5
35°	287.2	286.8	284.0	281.7	275.7	268.3	255.4	238.7	215.6	185.2	169.0
37.5°	313.5	314.0	311.2	307.5	300.6	292.3	278.0	259.1	232.3	199.0	181.0
40°	340.8	341.2	338.0	332.5	325.1	315.4	299.7	278.9	249.4	212.4	191.6
42.5°	367.6	367.6	364.3	358.8	348.6	337.6	320.5	297.8	265.1	224.4	202.3
45°	393.0	393.0	388.8	381.9	370.8	358.3	339.9	314.9	279.4	235.5	211.5
47.5°	417.9	417.4	412.8	403.6	393.0	378.6	359.3	330.6	293.2	246.1	219.8
50°	441.0	441.0	434.5	424.4	411.0	396.7	375.9	345.9	306.2	255.8	227.7
52.5°	462.2	461.8	454.8	443.8	429.0	413.7	391.6	359.7	317.2	264.6	235.0
55°	481.6	481.2	473.3	460.8	445.6	429.0	405.9	372.6	328.3	272.9	241.5
57.5°	499.6	499.2	489.9	476.1	460.8	443.3	419.3	384.7	338.5	280.8	248.0
60°	515.8	514.9	505.6	490.4	474.2	456.2	432.2	396.2	347.7	287.7	254.0
62.5°	530.1	529.2	519.0	503.3	486.2	467.8	442.4	405.9	356.0	294.6	259.1
65°	543.0	542.1	532.0	514.9	497.3	478.4	452.5	415.1	363.9	300.6	264.6
67.5°	555.0	554.1	542.6	525.0	507.5	488.1	462.2	423.9	371.3	306.6	269.7
70°	566.1	564.3	552.3	534.7	515.8	495.9	470.5	431.8	378.2	312.2	274.3
72.5°	574.4	573.1	561.0	542.6	523.6	504.2	477.9	438.2	384.7	317.2	278.4
75°	581.8	580.9	568.4	549.5	530.1	510.3	484.4	443.8	389.7	322.3	282.6
77.5°	588.3	586.4	574.4	555.5	535.6	515.3	489.5	449.3	394.3	326.0	285.8
80°	592.9	591.5	579.1	559.7	539.8	519.5	493.6	453.5	398.0	329.2	288.6
82.5°	596.1	594.3	582.3	562.9	543.0	522.3	496.4	455.8	400.8	332.0	291.4
85°	598.0	596.6	584.1	565.2	544.9	524.1	498.2	458.1	403.1	334.3	293.2
87.5°	598.4	597.5	585.5	566.1	545.8	525.5	499.2	459.5	404.5	335.7	294.6
88°	598.9	597.1	585.5	566.1	546.3	525.5	499.2	459.9	404.5	336.2	295.1
90°	598.9	597.1	585.5	566.6	546.3	525.0	499.6	460.4	405.0	336.6	296.0
92.5°	597.5	596.1	584.6	566.1	545.8	524.6	499.2	459.9	405.4	337.6	296.9
95°	595.2	593.8	582.7	564.3	544.0	523.2	497.8	459.0	405.0	337.6	296.9
97.5°	591.5	590.1	579.5	561.0	541.2	520.4	495.0	457.1	403.6	337.1	296.9
100°	586.9	585.5	574.9	556.9	537.0	516.7	491.8	454.8	401.7	336.2	296.5
102.5°	580.9	579.1	568.9	551.3	532.4	512.1	487.6	450.7	399.0	334.3	295.5
105°	572.6	571.7	562.0	544.9	525.5	506.1	482.1	446.5	395.7	332.0	293.7
107.5°	564.7	563.4	553.7	537.0	519.0	500.1	476.5	441.4	392.0	329.7	292.3



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CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	555.5	554.1	544.4	528.7	510.7	492.7	469.6	435.9	387.9	326.9	290.9
112.5°	544.4	543.5	533.8	519.0	501.9	484.9	462.7	429.9	383.3	324.2	289.1
115°	533.3	532.0	522.7	508.9	492.2	476.1	454.8	423.0	377.7	320.9	287.2
117.5°	521.3	519.9	510.7	497.3	482.1	466.4	446.1	415.6	372.2	317.2	284.9
120°	507.5	506.6	497.8	485.3	471.5	456.2	436.4	407.7	366.2	313.5	282.6
122.5°	493.6	492.2	484.4	472.8	459.9	445.6	426.7	399.4	359.3	308.9	279.8
125°	478.4	477.5	470.1	459.5	447.5	434.1	416.1	389.3	351.9	304.3	276.6
127.5°	462.7	461.3	454.4	444.7	434.1	421.1	404.5	379.6	344.0	298.3	272.9
130°	445.6	444.7	438.2	429.4	418.8	407.3	391.6	368.0	334.8	291.8	267.8
132.5°	427.6	426.7	421.1	413.7	403.1	392.5	377.7	355.1	324.2	284.4	262.3
135°	409.1	408.7	403.6	396.7	387.0	377.3	362.9	342.2	313.5	276.6	255.8
137.5°	390.2	389.7	385.1	378.2	370.8	360.6	347.2	327.9	301.5	267.4	248.0
140°	369.9	369.4	365.7	359.3	351.4	343.1	330.2	312.6	288.1	256.7	239.7
142.5°	349.6	349.1	345.9	341.2	333.9	325.1	313.1	296.5	274.8	246.1	230.4
145°	329.7	329.2	326.5	321.9	314.9	307.1	295.5	281.2	260.9	235.0	221.2
147.5°	310.8	309.8	307.5	303.8	297.4	289.5	278.9	265.5	247.0	224.0	211.5
150°	290.5	290.0	287.2	284.4	278.0	271.5	261.4	249.8	232.7	212.0	200.9
152.5°	270.1	269.7	267.8	264.6	259.1	253.0	243.8	233.2	218.4	199.9	190.2
155°	250.3	249.8	248.0	245.7	240.1	234.6	226.3	216.6	203.2	187.5	178.7
157.5°	230.4	230.4	229.5	226.7	221.6	216.6	208.3	200.9	188.9	175.0	168.1
160°	211.0	211.0	210.6	207.8	203.6	199.0	191.6	184.2	175.0	163.0	157.0
162.5°	192.1	191.2	191.6	189.8	185.6	181.9	175.5	169.5	160.7	150.5	145.5
165°	174.1	173.6	174.1	172.2	168.5	165.3	159.3	154.7	147.3	138.5	134.8
167.5°	157.9	157.9	157.5	156.1	152.8	150.1	145.5	141.3	135.3	128.4	125.1
170°	143.6	142.7	143.1	141.8	139.5	137.1	133.0	129.3	124.7	119.1	116.8
172.5°	130.2	129.3	129.8	128.4	127.0	125.1	122.4	119.1	115.4	110.4	109.0
175°	118.2	117.8	117.8	116.8	115.9	114.5	111.7	109.9	107.6	104.8	103.9
177.5°	107.6	106.7	107.1	106.7	106.2	105.7	104.8	103.9	102.5	101.1	100.7
180°	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7



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CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
2.5°	37.9	36.0	33.7	31.4	29.1	27.2	26.3	24.9	24.9	24.0
5°	39.7	36.0	32.3	29.1	25.9	23.1	20.8	19.4	18.9	18.9
7.5°	46.2	42.0	37.4	33.2	29.6	26.3	23.6	21.2	20.3	19.9
10°	53.6	48.5	42.5	37.9	33.7	29.6	26.3	24.0	23.1	23.1
12.5°	61.4	55.0	48.0	42.0	36.5	32.3	29.1	27.2	26.3	25.9
15°	69.7	61.4	53.1	45.7	39.7	34.6	31.4	29.6	28.6	28.2
17.5°	78.0	67.9	58.2	49.4	42.0	36.9	32.8	30.0	29.1	29.1
20°	86.8	74.3	62.8	52.6	44.3	37.9	33.2	30.5	29.1	29.1
22.5°	97.0	81.7	67.4	55.9	46.2	39.3	34.2	30.9	29.1	29.1
25°	107.6	89.6	73.0	59.1	48.5	40.6	35.1	31.4	30.0	29.6
27.5°	119.6	97.4	78.5	62.3	50.8	42.0	36.0	32.3	30.5	30.5
30°	131.1	104.8	83.1	65.6	52.6	43.4	36.9	33.2	31.4	31.4
32.5°	142.2	112.2	87.3	68.3	54.5	44.8	38.3	34.2	32.8	32.3
35°	152.4	119.1	91.0	70.2	55.9	46.2	39.7	35.6	33.7	33.7
37.5°	162.1	125.1	94.2	72.0	57.3	47.1	41.1	36.9	35.1	35.1
40°	170.9	130.2	96.5	73.4	58.2	48.5	42.5	38.3	36.9	36.5
42.5°	179.2	134.4	98.4	74.3	59.1	49.9	43.9	40.2	38.3	38.3
45°	186.1	138.1	100.2	75.3	60.0	50.8	45.3	41.6	40.2	39.7
47.5°	192.6	141.3	101.1	76.2	61.0	52.2	46.6	43.4	42.0	41.6
50°	198.6	143.6	102.1	76.7	61.9	53.6	48.0	45.3	43.9	43.4
52.5°	204.1	145.9	102.5	77.1	62.8	54.5	49.9	46.6	45.3	45.3
55°	208.7	148.2	103.4	78.0	63.7	56.3	51.3	48.9	47.6	47.1
57.5°	213.8	150.1	104.4	78.5	65.1	57.7	53.1	50.8	49.4	48.9
60°	218.0	151.9	105.3	79.4	66.0	59.1	55.0	52.6	51.3	50.8
62.5°	222.1	153.3	105.7	80.3	67.4	61.0	56.8	54.5	53.1	52.6
65°	225.8	155.2	107.1	81.7	68.8	62.3	58.6	56.3	55.0	55.0
67.5°	229.5	157.0	108.1	82.7	70.7	64.2	60.5	58.2	56.8	56.8
70°	233.2	158.4	109.0	84.0	72.0	66.0	62.3	60.0	58.6	58.6
72.5°	236.4	160.2	110.4	85.9	73.9	67.9	64.2	61.9	60.5	60.5
75°	239.2	161.6	111.7	87.3	75.3	69.7	66.0	63.7	62.3	61.9
77.5°	242.4	163.5	113.6	88.7	77.1	71.6	67.9	65.6	63.7	63.7
80°	244.7	164.4	115.0	90.0	79.0	73.0	69.3	67.0	65.6	65.1
82.5°	247.0	166.2	116.4	91.4	80.3	74.3	70.7	68.3	67.0	66.5
85°	248.4	167.2	117.3	92.8	81.7	75.7	72.0	69.3	67.9	67.4
87.5°	249.8	168.5	118.7	94.2	83.1	77.1	73.4	70.7	68.8	68.3
88°	250.3	169.0	119.6	94.7	83.1	77.6	73.4	70.7	69.3	68.8
90°	251.2	169.9	120.5	95.6	84.0	78.0	74.3	71.1	69.7	69.3
92.5°	251.7	170.9	121.4	96.5	85.4	79.0	74.8	72.0	70.2	69.7
95°	252.6	171.8	122.8	97.9	86.4	79.9	75.3	72.5	70.7	70.2
97.5°	252.6	172.7	124.2	98.8	86.8	80.3	75.7	72.5	70.7	70.2
100°	252.6	173.6	125.6	99.7	87.7	80.3	75.7	72.5	70.7	70.2
102.5°	252.1	175.0	127.0	101.1	88.2	80.8	75.7	72.0	70.2	70.2
105°	251.7	175.9	128.4	102.5	89.1	80.8	75.3	71.6	69.7	69.7
107.5°	251.7	177.8	130.7	103.9	89.6	80.8	74.8	71.1	69.3	68.8



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CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	251.2	179.6	133.5	106.2	91.0	81.3	74.8	70.7	68.3	68.3
112.5°	250.7	181.9	135.8	108.1	91.9	81.3	74.3	69.7	67.9	67.4
115°	251.2	184.2	139.0	110.4	93.3	81.7	73.9	69.3	67.0	66.5
117.5°	250.3	186.6	142.2	113.1	94.7	82.2	73.9	68.8	66.0	66.0
120°	249.8	188.9	145.5	116.8	96.5	82.7	73.4	67.9	65.6	65.1
122.5°	248.9	191.2	148.7	119.6	98.4	83.6	73.4	67.4	64.6	64.6
125°	247.5	192.6	151.0	121.9	99.7	84.0	73.4	67.4	64.2	63.7
127.5°	245.2	193.5	153.8	124.2	101.1	85.0	73.4	67.0	63.7	63.3
130°	242.4	193.9	155.2	126.1	102.5	85.4	73.9	67.0	63.7	63.3
132.5°	238.3	193.5	156.1	127.4	103.9	86.4	74.3	67.0	63.7	63.3
135°	234.1	192.1	156.5	128.4	104.8	87.3	74.8	67.0	63.7	63.3
137.5°	228.1	189.8	156.5	128.8	105.3	87.7	75.3	67.4	64.2	63.7
140°	221.6	186.1	154.7	128.8	105.7	88.7	76.2	68.3	64.6	64.2
142.5°	214.3	182.4	153.3	127.9	105.7	89.1	76.7	68.8	65.1	65.1
145°	206.4	177.8	150.5	127.4	105.7	89.6	77.6	69.7	66.0	66.0
147.5°	198.6	172.7	147.8	126.1	105.7	90.0	78.5	71.1	67.4	67.0
150°	189.8	166.2	143.6	123.3	104.8	90.0	79.0	72.0	68.3	67.9
152.5°	180.1	159.3	139.5	121.0	103.4	90.0	79.9	73.0	69.7	69.7
155°	170.4	151.9	134.4	117.8	102.5	90.5	81.3	74.8	71.6	71.6
157.5°	160.2	145.0	129.3	114.5	101.1	90.5	82.2	76.7	73.9	73.4
160°	150.5	137.6	124.2	110.8	99.7	90.5	83.1	78.0	75.7	75.3
162.5°	140.4	129.3	118.2	107.1	97.4	89.6	83.6	79.4	77.1	77.1
165°	130.2	121.4	111.3	103.0	95.1	89.1	84.0	80.3	78.5	78.5
167.5°	121.9	114.1	106.2	99.3	93.7	88.7	84.5	81.7	80.3	80.3
170°	113.6	107.6	102.1	97.0	92.4	88.2	85.4	83.6	82.2	82.2
172.5°	107.1	103.0	98.8	95.1	91.9	89.1	86.8	85.4	84.5	84.5
175°	102.5	99.7	97.4	94.7	92.8	91.0	89.6	88.7	88.2	88.7
177.5°	100.2	98.8	97.4	96.0	95.6	94.7	93.7	93.3	93.3	93.7
180°	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

(END OF REPORT)