

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: P256816

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-3)
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-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (90) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.4 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

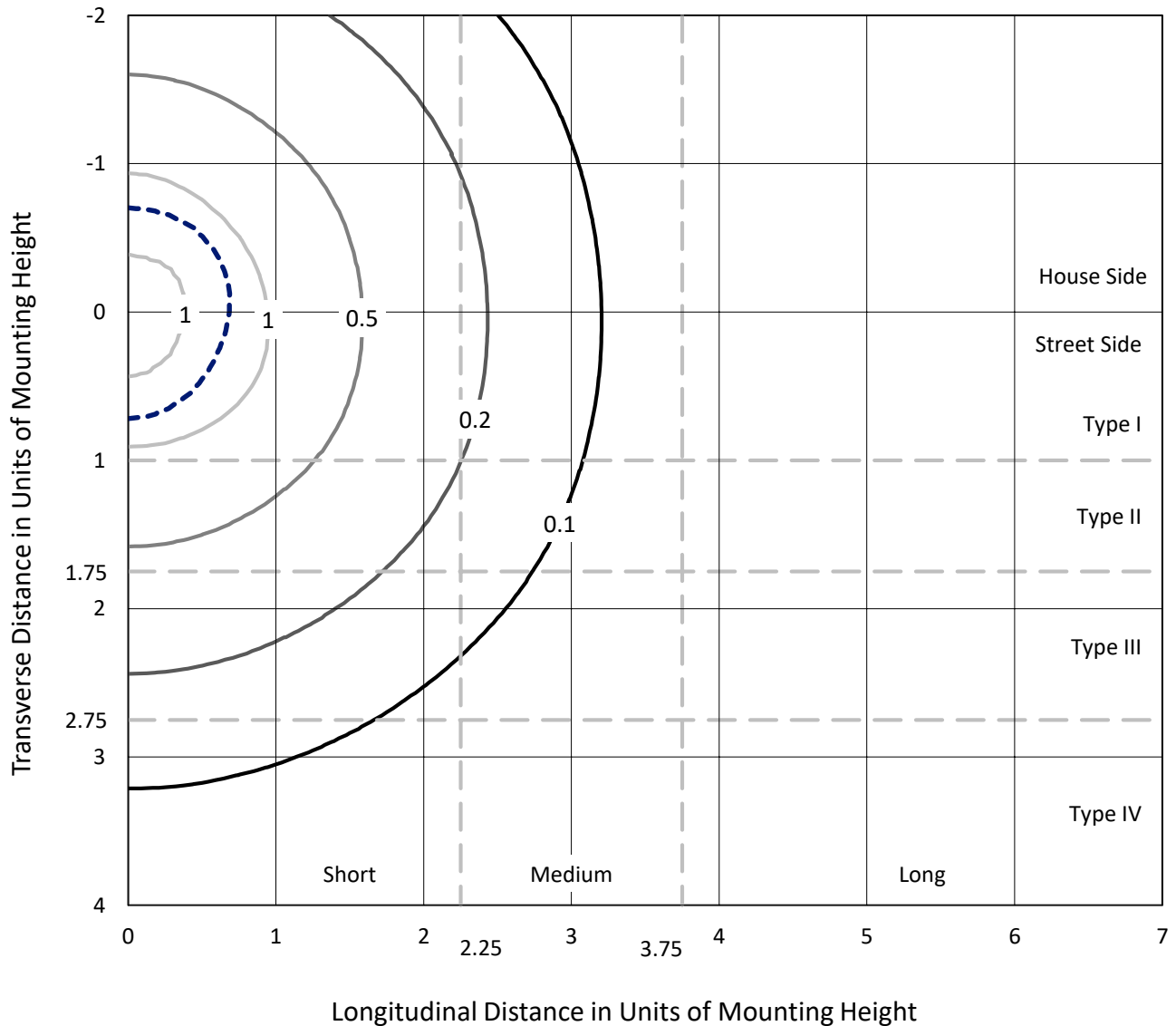
Input Watts (W): 29.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P256816
 CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-BK

Iso-Footcandle Lines of Horizontal Illumination

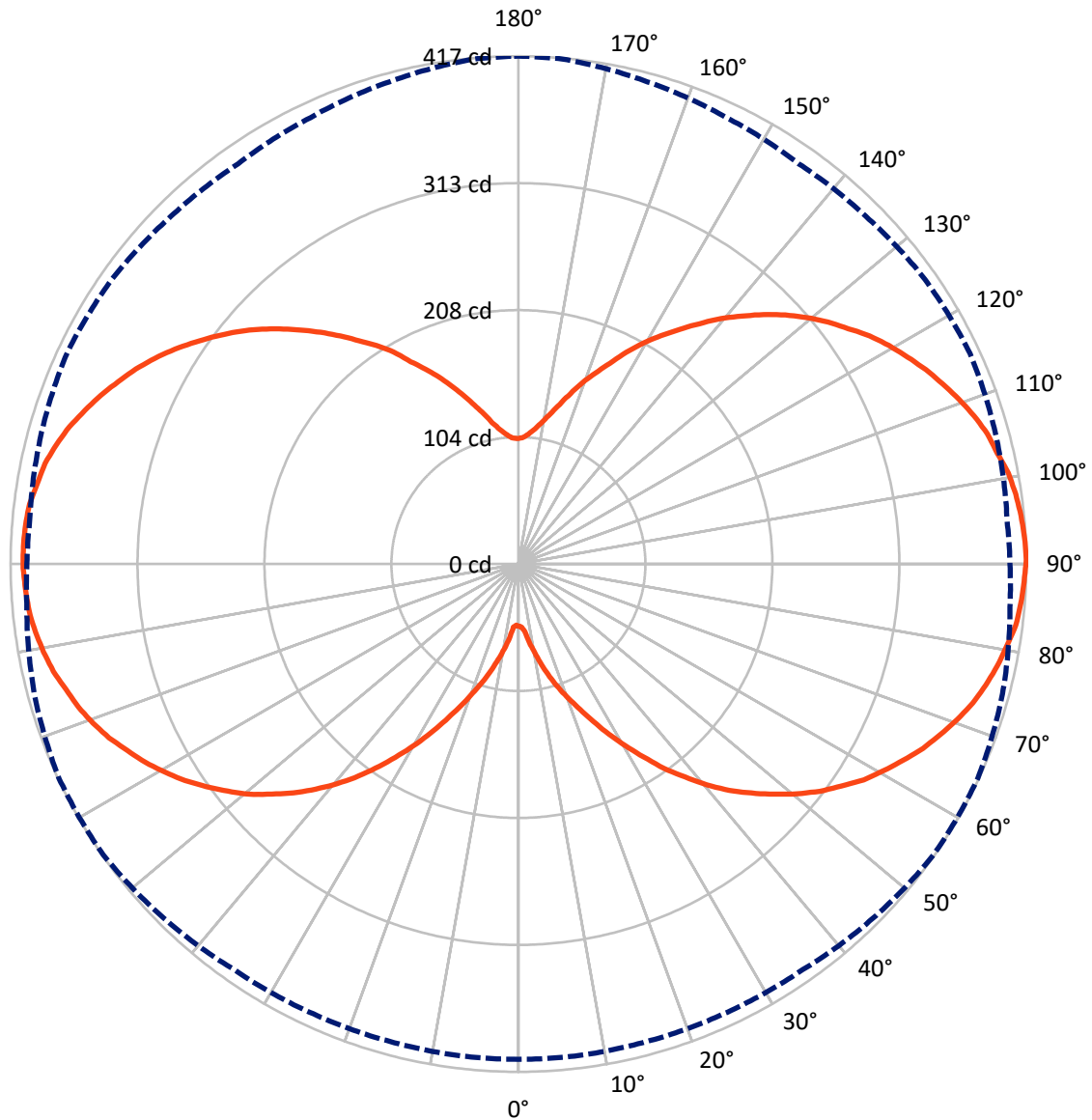
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P256816
CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-BK

Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 90-Deg Vertical



REPORT NUMBER: P256816

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

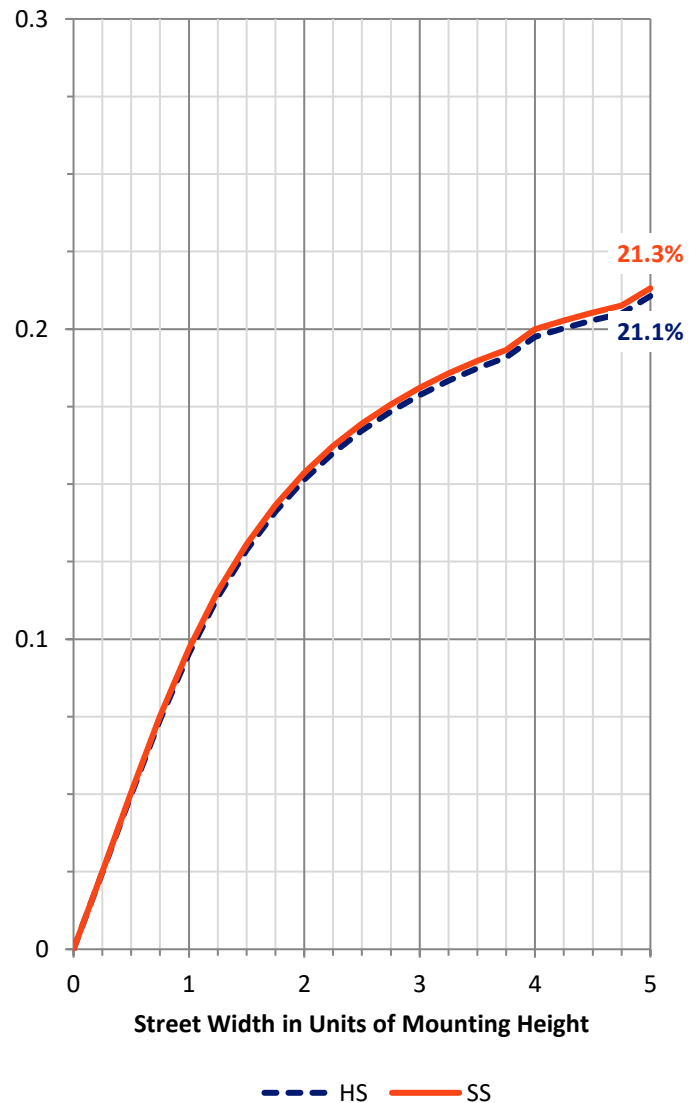
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	958.4	996.8	1955.1
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	971.3	1005.0	1976.3
	% Fixture	24.7	25.6	50.3
Total	Lumens	1929.7	2001.7	3931.4
	% Fixture	49.1	50.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	27.3	0.7
20°-30°	67.5	1.7
30°-40°	130.7	3.3
40°-50°	207.5	5.3
50°-60°	285.1	7.3
60°-70°	354.8	9.0
70°-80°	409.8	10.4
80°-90°	441.3	11.2
90°-100°	443.4	11.3
100°-110°	414.2	10.5
110°-120°	359.9	9.2
120°-130°	291.6	7.4
130°-140°	216.5	5.5
140°-150°	143.8	3.7
150°-160°	83.0	2.1
160°-170°	38.9	1.0
170°-180°	10.5	0.3
0°-90°	1929.7	49.1
0°-180°	3931.4	100.0



REPORT NUMBER: P256816

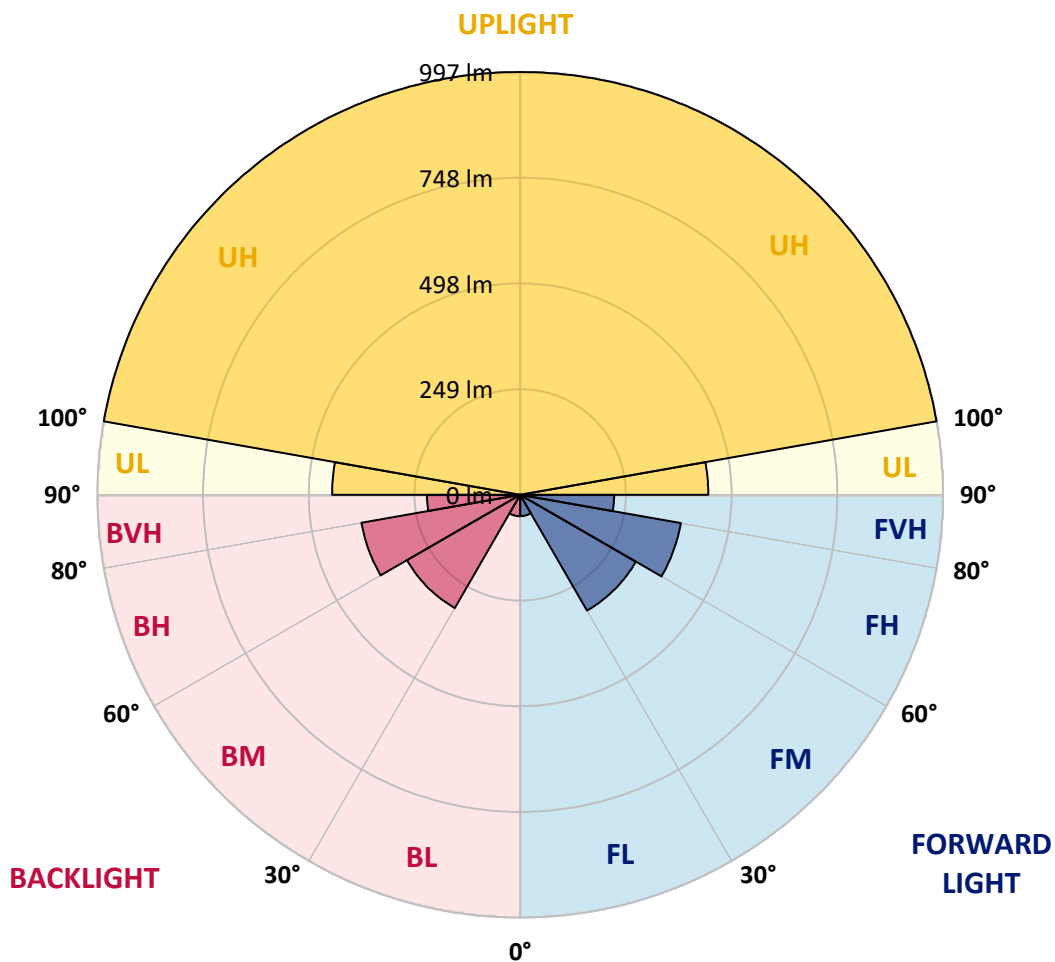
CATALOG NUMBER: ULA-A4-D-U-SYM-VMx-7030-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.2	1.3			
FM (30°-60°)	315.0	8.0			
FH (60°-80°)	384.7	9.8			G0/660
FVH (80°-90°)	221.4	5.6			G2/225
BL (0°-30°)	50.4	1.3	B0/110		
BM (30°-60°)	308.2	7.8	B1/1000		
BH (60°-80°)	379.9	9.7	B1/500		G0/660
BVH (80°-90°)	219.8	5.6			G2/225
UL (90°-100°)	443.4	11.3		U3/500	
UH (100°-180°)	996.8	25.4		U4/1000	

BUG Rating: B1-U5-G2

Type V Short





REPORT NUMBER: P256816

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	50.3	50.3	50.3	49.6	49.6	49.6	49.6	49.6	49.6	50.3	50.3
5°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	52.7	53.5	53.5	54.3
7.5°	61.4	60.6	60.6	60.6	60.6	60.6	60.6	61.4	62.1	62.9	62.9
10°	70.8	70.0	70.0	70.8	70.8	71.6	70.8	72.4	72.4	73.1	73.9
12.5°	80.2	79.4	80.2	81.0	81.8	81.8	82.6	83.4	83.4	84.2	84.2
15°	90.5	89.7	90.5	91.2	92.0	92.8	93.6	94.4	95.2	95.2	94.4
17.5°	101.5	100.7	101.5	102.3	103.0	103.8	105.4	106.2	106.2	106.2	106.2
20°	112.5	111.7	112.5	114.1	114.8	115.6	118.0	118.8	118.0	118.0	117.2
22.5°	125.1	124.3	125.1	126.6	129.0	129.8	131.4	132.1	131.4	131.4	130.6
25°	138.4	138.4	139.2	140.8	143.2	144.7	147.1	147.9	146.3	146.3	145.5
27.5°	153.4	153.4	154.2	156.5	158.1	160.5	163.6	163.6	162.8	162.0	161.2
30°	169.1	168.3	169.9	172.3	174.6	177.0	180.1	181.7	180.9	178.5	177.0
32.5°	184.8	184.1	185.6	188.8	191.9	194.3	197.4	198.2	197.4	195.1	193.5
35°	201.4	202.1	202.9	205.3	209.2	211.6	214.7	215.5	213.9	212.4	210.0
37.5°	217.9	217.9	219.4	221.8	225.7	228.1	231.2	232.0	231.2	228.1	226.5
40°	233.6	233.6	235.2	237.5	240.7	243.8	247.0	248.6	246.2	243.8	241.5
42.5°	248.6	248.6	250.1	251.7	254.8	258.8	261.9	263.5	261.9	258.0	255.6
45°	263.5	263.5	265.1	266.6	269.8	272.9	276.9	277.7	275.3	271.4	269.8
47.5°	276.9	276.9	278.4	280.0	283.2	287.1	290.2	291.0	288.7	284.7	282.4
50°	291.0	290.2	291.8	293.4	296.5	300.5	303.6	303.6	301.2	296.5	294.2
52.5°	302.8	303.6	303.6	305.2	308.3	311.5	315.4	316.2	313.0	307.5	306.0
55°	314.6	315.4	315.4	316.2	319.3	323.3	328.0	327.2	324.1	319.3	316.2
57.5°	326.4	326.4	327.2	327.2	329.6	334.3	339.0	338.2	335.1	329.6	327.2
60°	336.6	336.6	336.6	338.2	339.8	343.7	348.4	349.2	344.5	339.0	336.6
62.5°	346.9	346.9	346.9	347.7	349.2	353.2	358.7	358.7	353.2	347.7	345.3
65°	355.5	356.3	356.3	356.3	358.7	363.4	367.3	367.3	363.4	356.3	354.7
67.5°	365.0	365.0	364.2	364.2	366.5	370.5	376.0	376.0	371.3	364.2	362.6
70°	372.8	372.8	372.0	372.0	374.4	379.1	384.6	383.8	378.3	372.8	370.5
72.5°	379.9	380.7	379.1	379.1	381.5	386.2	391.7	390.9	385.4	379.1	377.5
75°	385.4	387.0	385.4	384.6	387.0	391.7	397.2	397.2	391.7	384.6	383.1
77.5°	391.7	392.5	390.9	390.9	392.5	398.0	402.7	402.7	398.0	390.9	388.6
80°	396.4	397.2	396.4	395.6	397.2	401.9	407.4	407.4	402.7	395.6	393.3
82.5°	400.4	400.4	399.6	399.6	401.1	405.9	410.6	410.6	405.9	399.6	398.0
85°	403.5	404.3	403.5	402.7	404.3	409.0	413.7	413.7	409.0	401.9	400.4
87.5°	405.1	405.9	405.1	405.1	405.9	410.6	415.3	414.5	410.6	403.5	401.9
90°	406.6	406.6	405.9	405.9	406.6	411.4	416.1	416.1	411.4	405.1	403.5
92.5°	406.6	407.4	406.6	406.6	407.4	410.6	415.3	416.1	411.4	405.1	403.5
95°	405.9	405.9	405.9	405.1	405.9	409.8	414.5	414.5	410.6	403.5	401.9
97.5°	404.3	404.3	403.5	403.5	404.3	408.2	412.2	412.2	408.2	401.9	400.4
100°	400.4	401.1	401.1	400.4	401.1	404.3	409.0	409.0	404.3	398.8	397.2
102.5°	397.2	396.4	396.4	396.4	396.4	399.6	404.3	403.5	399.6	394.1	392.5
105°	391.7	391.7	390.9	390.9	391.7	394.8	399.6	398.8	394.1	388.6	387.0
107.5°	385.4	385.4	384.6	384.6	385.4	388.6	393.3	392.5	387.8	382.3	380.7
110°	377.5	377.5	376.8	376.0	378.3	381.5	386.2	385.4	380.7	375.2	373.6



REPORT NUMBER: P256816

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	369.7	369.7	369.7	368.9	371.3	374.4	378.3	377.5	372.8	367.3	366.5
115°	361.0	361.0	360.2	360.2	363.4	366.5	370.5	368.9	364.2	359.5	357.9
117.5°	352.4	352.4	350.8	350.8	353.9	357.9	361.8	360.2	355.5	350.8	349.2
120°	342.9	342.9	341.4	341.4	345.3	349.2	353.2	351.6	346.9	341.4	340.6
122.5°	332.7	332.7	331.1	331.9	335.9	339.8	343.7	342.2	337.4	332.7	331.1
125°	321.7	321.7	320.9	321.7	325.6	329.6	333.5	331.9	327.2	323.3	320.9
127.5°	310.7	310.7	310.7	311.5	315.4	319.3	323.3	320.9	317.0	312.3	311.5
130°	299.7	299.7	298.9	300.5	304.4	308.3	311.5	310.7	306.0	302.0	300.5
132.5°	287.9	287.9	287.9	288.7	292.6	296.5	300.5	298.9	295.0	290.2	288.7
135°	275.3	275.3	276.1	276.9	280.8	284.7	287.9	286.3	283.2	278.4	276.1
137.5°	262.7	263.5	263.5	265.1	268.2	272.1	274.5	273.7	269.8	265.9	264.3
140°	250.1	250.1	250.9	252.5	255.6	258.8	260.3	259.6	257.2	253.3	250.9
142.5°	237.5	237.5	238.3	239.9	242.3	244.6	247.0	246.2	243.8	240.7	238.3
145°	225.0	225.0	225.7	227.3	229.7	231.2	233.6	232.8	230.5	227.3	225.0
147.5°	213.9	213.2	213.9	215.5	217.9	218.7	220.2	220.2	217.9	214.7	213.2
150°	202.1	202.1	202.9	203.7	205.3	206.9	207.6	207.6	205.3	202.1	200.6
152.5°	188.0	188.0	188.8	191.1	191.9	194.3	195.1	193.5	191.9	188.0	187.2
155°	177.0	177.0	177.0	178.5	179.3	180.1	180.9	180.1	178.5	176.2	175.4
157.5°	166.7	166.0	166.0	167.5	168.3	168.3	169.1	168.3	167.5	165.2	164.4
160°	155.7	155.7	155.7	156.5	156.5	158.1	158.1	157.3	155.7	155.0	153.4
162.5°	145.5	145.5	145.5	145.5	146.3	146.3	146.3	145.5	144.7	143.9	143.2
165°	135.3	135.3	135.3	135.3	135.3	136.1	136.1	135.3	134.5	133.7	133.7
167.5°	126.6	126.6	125.8	125.8	126.6	126.6	126.6	125.8	125.8	125.1	125.1
170°	118.0	118.8	118.8	118.0	118.0	118.0	118.0	118.0	118.0	117.2	117.2
172.5°	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	110.9	110.9
175°	107.0	107.0	107.0	106.2	107.0	107.0	107.0	106.2	106.2	106.2	106.2
177.5°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
180°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0



REPORT NUMBER: P256816

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2.5°	50.3	50.3	51.1	51.1	51.9	51.9	51.9	51.9	51.9	51.9
5°	54.3	54.3	55.1	55.1	55.1	55.8	55.8	55.8	55.8	55.8
7.5°	63.7	64.5	65.3	64.5	64.5	65.3	64.5	64.5	65.3	65.3
10°	73.1	73.9	74.7	74.7	74.7	74.7	74.7	74.7	74.7	73.9
12.5°	84.2	84.2	84.2	84.9	84.9	84.9	84.9	84.9	85.7	84.9
15°	94.4	94.4	94.4	95.2	95.2	95.2	95.2	96.0	96.7	96.0
17.5°	105.4	105.4	105.4	105.4	105.4	105.4	106.2	107.0	107.8	107.0
20°	117.2	117.2	116.4	116.4	116.4	116.4	117.2	118.0	118.0	118.0
22.5°	130.6	129.0	129.0	128.2	128.2	129.0	129.8	130.6	130.6	129.8
25°	144.7	143.2	141.6	142.4	141.6	142.4	143.2	143.9	143.9	143.2
27.5°	159.7	158.1	156.5	156.5	155.7	156.5	156.5	158.1	158.9	158.1
30°	175.4	173.8	171.5	171.5	170.7	170.7	172.3	173.0	173.8	173.0
32.5°	191.9	188.8	188.0	187.2	185.6	185.6	187.2	188.0	189.6	188.8
35°	209.2	206.9	203.7	202.1	202.1	202.9	203.7	204.5	206.9	206.1
37.5°	225.0	221.8	219.4	217.9	217.9	217.9	220.2	221.0	222.6	221.8
40°	239.9	236.8	234.4	232.8	232.8	232.8	235.2	236.0	238.3	238.3
42.5°	254.1	250.9	250.1	247.8	247.0	247.8	249.3	251.7	254.1	254.1
45°	267.4	265.1	263.5	261.9	261.1	261.9	263.5	266.6	269.0	268.2
47.5°	280.8	278.4	276.9	275.3	274.5	274.5	276.9	280.0	283.2	282.4
50°	293.4	291.0	289.5	288.7	287.9	287.9	290.2	293.4	297.3	296.5
52.5°	304.4	302.8	302.0	301.2	299.7	299.7	302.0	306.0	309.1	309.9
55°	315.4	313.8	313.8	312.3	311.5	311.5	313.8	317.8	320.9	321.7
57.5°	326.4	324.8	325.6	324.1	322.5	321.7	324.8	329.6	332.7	334.3
60°	335.9	335.1	335.1	334.3	332.7	331.9	335.1	339.8	343.7	344.5
62.5°	345.3	344.5	345.3	344.5	342.2	341.4	344.5	349.2	353.9	354.7
65°	353.9	353.2	355.5	353.9	351.6	350.8	353.9	359.5	364.2	365.0
67.5°	361.8	361.8	363.4	362.6	359.5	358.7	361.8	367.3	372.8	373.6
70°	369.7	370.5	372.8	371.3	368.1	367.3	369.7	376.0	381.5	382.3
72.5°	376.0	377.5	380.7	379.1	375.2	373.6	377.5	383.8	389.3	390.1
75°	383.1	383.8	386.2	385.4	382.3	379.9	383.8	390.1	395.6	396.4
77.5°	388.6	390.1	393.3	391.7	387.8	386.2	390.1	396.4	401.9	401.9
80°	393.3	395.6	398.0	397.2	393.3	390.9	394.8	401.1	406.6	406.6
82.5°	397.2	399.6	401.9	401.1	397.2	394.8	398.0	404.3	410.6	411.4
85°	400.4	402.7	405.9	405.1	400.4	398.0	401.1	408.2	412.9	413.7
87.5°	401.1	404.3	408.2	405.9	402.7	399.6	403.5	409.0	414.5	415.3
90°	402.7	405.9	409.0	407.4	403.5	401.1	404.3	409.8	416.1	416.9
92.5°	402.7	405.9	409.0	408.2	404.3	401.1	404.3	410.6	415.3	416.1
95°	401.9	405.1	408.2	407.4	402.7	400.4	403.5	409.0	414.5	414.5
97.5°	399.6	402.7	405.9	405.1	401.1	398.0	401.1	406.6	412.2	412.2
100°	396.4	399.6	403.5	402.7	398.0	395.6	398.0	404.3	409.0	409.0
102.5°	391.7	394.8	398.8	398.0	394.1	390.9	393.3	399.6	403.5	403.5
105°	387.0	389.3	393.3	392.5	388.6	385.4	388.6	394.1	398.8	399.6
107.5°	380.7	383.1	387.0	387.0	383.1	379.9	382.3	388.6	392.5	393.3
110°	373.6	376.0	379.1	379.1	376.0	372.8	375.2	380.7	386.2	386.2



REPORT NUMBER: P256816

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	365.7	368.1	371.3	371.3	367.3	365.0	367.3	373.6	378.3	378.3
115°	357.9	359.5	362.6	362.6	359.5	357.1	360.2	365.7	370.5	370.5
117.5°	349.2	350.8	353.2	353.9	350.8	348.4	351.6	356.3	361.8	361.8
120°	339.8	341.4	343.7	343.7	341.4	339.8	342.2	347.7	352.4	353.2
122.5°	331.1	331.9	333.5	333.5	331.1	330.4	332.7	339.0	342.9	343.7
125°	320.9	320.9	323.3	322.5	320.9	320.1	323.3	328.0	332.7	332.7
127.5°	310.7	310.7	311.5	311.5	309.9	309.1	313.0	317.8	321.7	322.5
130°	299.7	298.9	299.7	299.7	298.9	298.9	302.0	306.8	310.7	311.5
132.5°	287.9	287.1	287.1	287.1	287.1	287.1	290.2	295.0	298.9	299.7
135°	275.3	274.5	274.5	274.5	273.7	275.3	278.4	282.4	286.3	287.1
137.5°	263.5	261.9	261.9	261.1	261.9	263.5	265.9	269.8	273.7	273.7
140°	250.1	247.8	247.8	247.8	249.3	250.9	253.3	257.2	260.3	261.1
142.5°	237.5	235.2	234.4	235.2	236.0	237.5	240.7	244.6	247.0	247.0
145°	224.2	221.8	221.0	221.8	223.4	225.7	228.1	231.2	233.6	233.6
147.5°	212.4	210.0	209.2	209.2	211.6	213.9	216.3	219.4	221.0	221.0
150°	199.8	197.4	196.6	197.4	199.8	201.4	204.5	206.9	208.4	208.4
152.5°	186.4	184.1	183.3	184.1	185.6	188.0	191.1	193.5	195.9	195.1
155°	174.6	172.3	171.5	172.3	173.8	176.2	177.8	180.1	181.7	180.9
157.5°	163.6	162.0	161.2	162.0	163.6	165.2	166.7	168.3	169.9	169.1
160°	153.4	151.8	151.8	151.8	152.6	155.0	155.7	157.3	158.1	158.1
162.5°	143.2	141.6	141.6	142.4	143.2	144.7	145.5	146.3	146.3	146.3
165°	133.7	132.1	132.1	132.9	132.9	134.5	134.5	135.3	136.1	135.3
167.5°	125.1	124.3	123.5	124.3	125.1	125.8	125.8	125.8	126.6	125.8
170°	117.2	117.2	116.4	116.4	117.2	118.0	118.0	118.0	118.0	118.0
172.5°	110.9	110.9	110.9	110.9	111.7	111.7	111.7	111.7	111.7	111.7
175°	106.2	106.2	106.2	106.2	107.0	107.0	107.0	107.0	107.0	107.0
177.5°	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8
180°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0

(END OF REPORT)