

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: P256813

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256813
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-A3-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: 3183.2 lumens
Efficiency: N/A
Efficacy: 150.9 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): 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



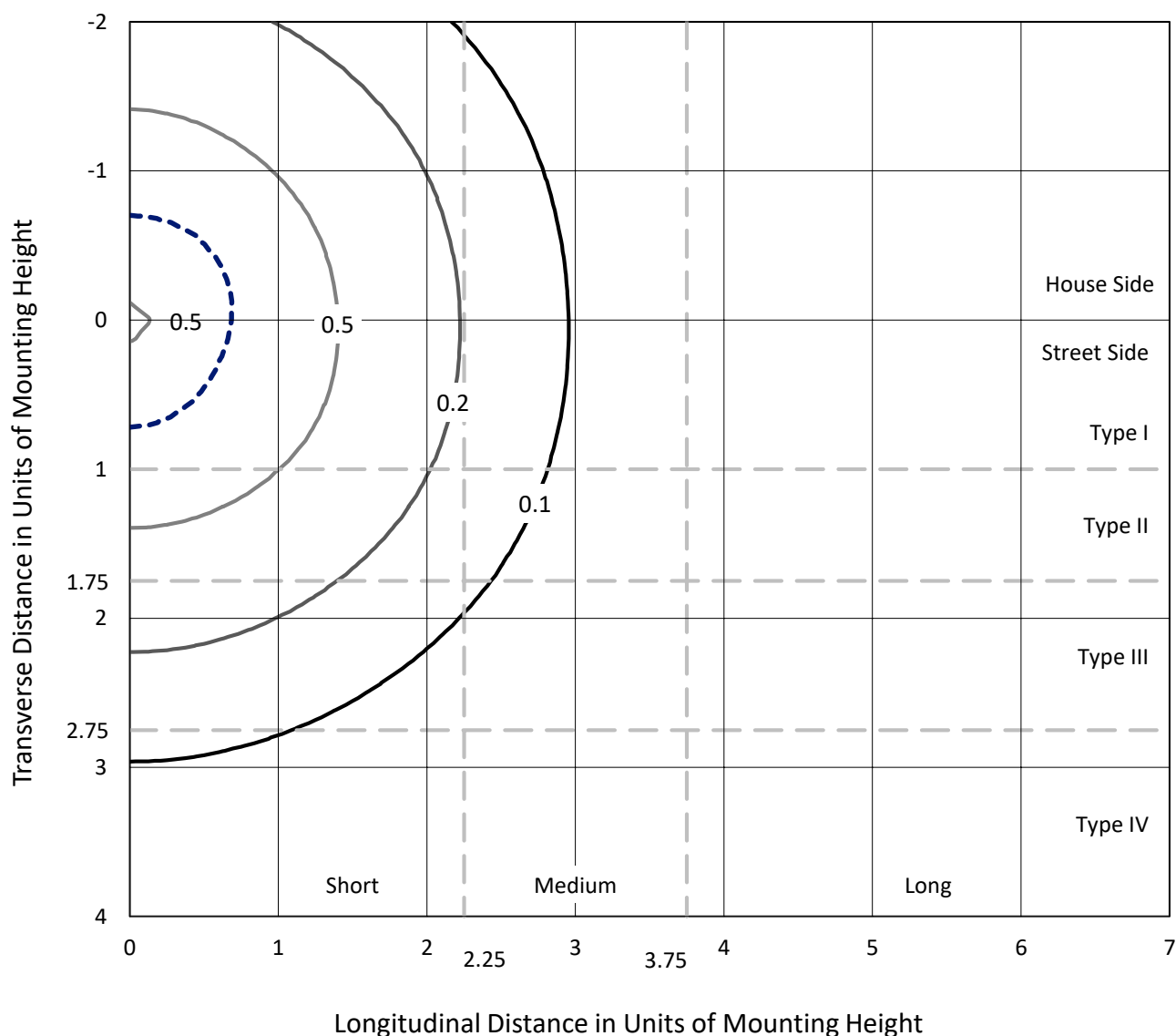
REPORT NUMBER: P256813

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

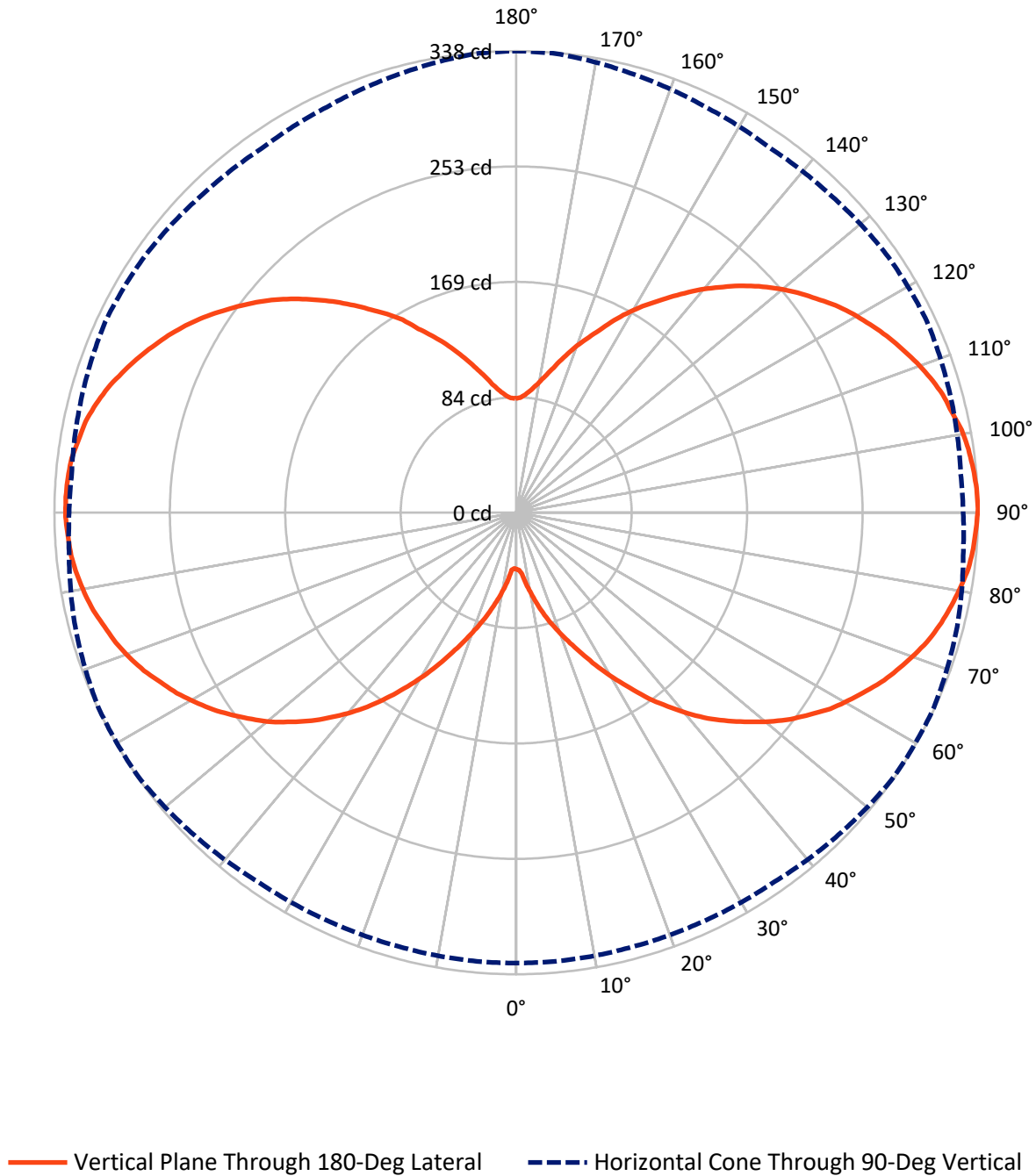


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P256813

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

Luminous Intensity Polar Plot



REPORT NUMBER: P256813

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

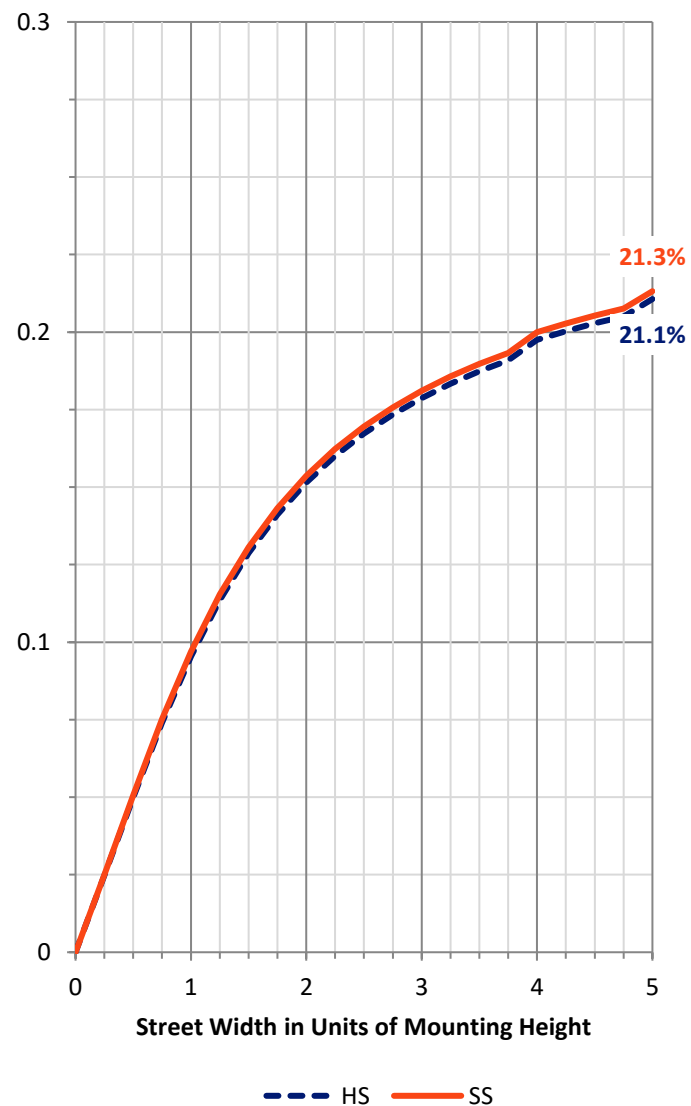
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.0	807.1	1583.0
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	786.5	813.7	1600.2
	% Fixture	24.7	25.6	50.3
Total	Lumens	1562.4	1620.8	3183.2
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	22.1	0.7
20°-30°	54.6	1.7
30°-40°	105.8	3.3
40°-50°	168.0	5.3
50°-60°	230.8	7.3
60°-70°	287.3	9.0
70°-80°	331.8	10.4
80°-90°	357.3	11.2
90°-100°	359.0	11.3
100°-110°	335.4	10.5
110°-120°	291.4	9.2
120°-130°	236.1	7.4
130°-140°	175.3	5.5
140°-150°	116.4	3.7
150°-160°	67.2	2.1
160°-170°	31.5	1.0
170°-180°	8.5	0.3
0°-90°	1562.4	49.1
0°-180°	3183.2	100.0

Coefficient of Utilization



REPORT NUMBER: P256813

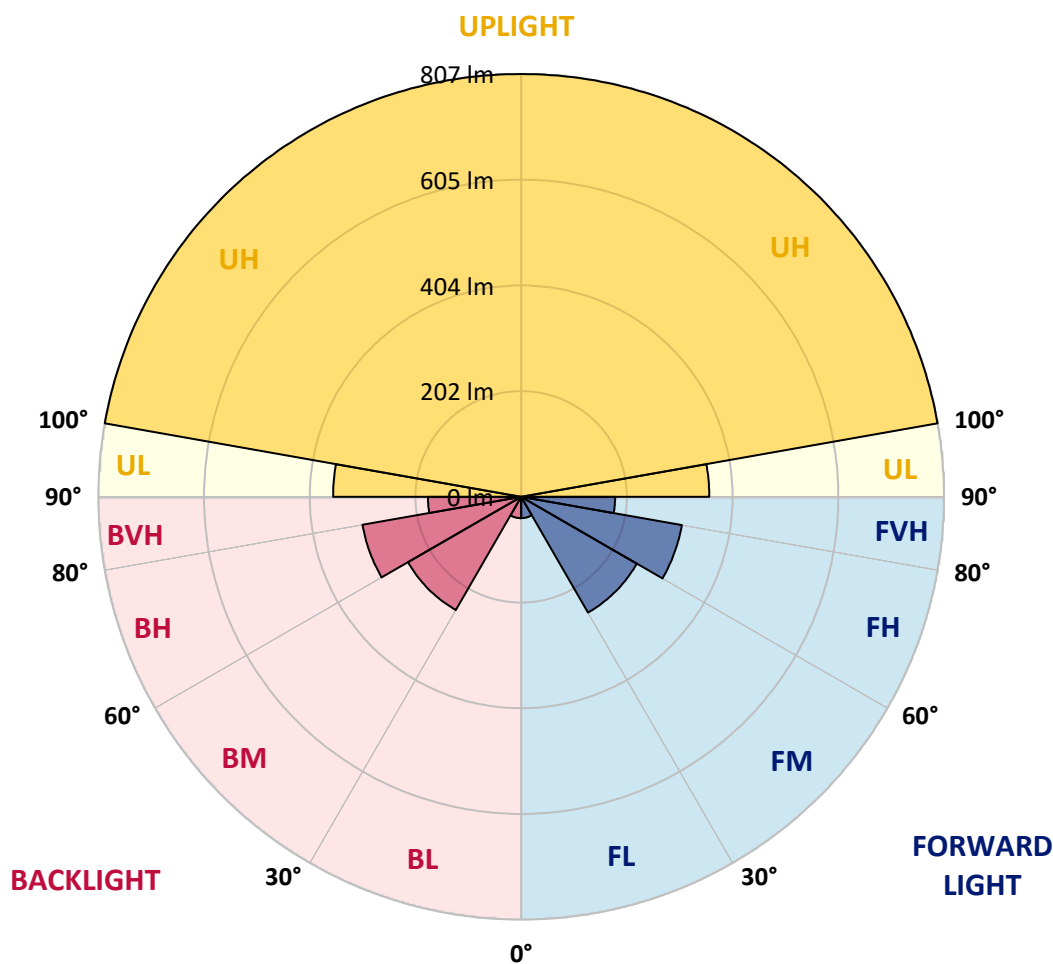
CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7030-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	40.6	1.3			
FM	(30°-60°)	255.1	8.0			
FH	(60°-80°)	311.5	9.8			G0/660
FVH	(80°-90°)	179.3	5.6			G2/225
BL	(0°-30°)	40.8	1.3	B0/110		
BM	(30°-60°)	249.6	7.8	B1/1000		
BH	(60°-80°)	307.6	9.7	B1/500		G0/660
BVH	(80°-90°)	178.0	5.6			G2/225
UL	(90°-100°)	359.0	11.3		U3/500	
UH	(100°-180°)	807.1	25.4		U4/1000	

BUG Rating: B1-U5-G2

Type V Short





REPORT NUMBER: P256813

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	40.8	40.8	40.8	40.1	40.1	40.1	40.1	40.1	40.1	40.8	40.8
5°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.7	43.3	43.3	43.9
7.5°	49.7	49.0	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.9	50.9
10°	57.3	56.7	56.7	57.3	57.3	58.0	57.3	58.6	58.6	59.2	59.9
12.5°	65.0	64.3	65.0	65.6	66.2	66.2	66.9	67.5	67.5	68.1	68.1
15°	73.2	72.6	73.2	73.9	74.5	75.1	75.8	76.4	77.1	77.1	76.4
17.5°	82.2	81.5	82.2	82.8	83.4	84.1	85.3	86.0	86.0	86.0	86.0
20°	91.1	90.4	91.1	92.3	93.0	93.6	95.5	96.2	95.5	95.5	94.9
22.5°	101.3	100.6	101.3	102.5	104.4	105.1	106.4	107.0	106.4	106.4	105.7
25°	112.1	112.1	112.7	114.0	115.9	117.2	119.1	119.7	118.5	118.5	117.8
27.5°	124.2	124.2	124.8	126.7	128.0	129.9	132.5	132.5	131.8	131.2	130.6
30°	136.9	136.3	137.6	139.5	141.4	143.3	145.8	147.1	146.5	144.6	143.3
32.5°	149.7	149.0	150.3	152.8	155.4	157.3	159.9	160.5	159.9	157.9	156.7
35°	163.0	163.7	164.3	166.2	169.4	171.3	173.9	174.5	173.2	172.0	170.0
37.5°	176.4	176.4	177.7	179.6	182.8	184.7	187.2	187.9	187.2	184.7	183.4
40°	189.1	189.1	190.4	192.3	194.9	197.4	200.0	201.2	199.3	197.4	195.5
42.5°	201.2	201.2	202.5	203.8	206.3	209.5	212.1	213.3	212.1	208.9	207.0
45°	213.3	213.3	214.6	215.9	218.4	221.0	224.2	224.8	222.9	219.7	218.4
47.5°	224.2	224.2	225.4	226.7	229.3	232.5	235.0	235.6	233.7	230.5	228.6
50°	235.6	235.0	236.3	237.5	240.1	243.3	245.8	245.8	243.9	240.1	238.2
52.5°	245.2	245.8	245.8	247.1	249.6	252.2	255.4	256.0	253.5	249.0	247.7
55°	254.7	255.4	255.4	256.0	258.6	261.7	265.6	264.9	262.4	258.6	256.0
57.5°	264.3	264.3	264.9	264.9	266.8	270.7	274.5	273.8	271.3	266.8	264.9
60°	272.6	272.6	272.6	273.8	275.1	278.3	282.1	282.8	278.9	274.5	272.6
62.5°	280.9	280.9	280.9	281.5	282.8	286.0	290.4	290.4	286.0	281.5	279.6
65°	287.9	288.5	288.5	288.5	290.4	294.2	297.4	297.4	294.2	288.5	287.2
67.5°	295.5	295.5	294.9	294.9	296.8	300.0	304.4	304.4	300.6	294.9	293.6
70°	301.9	301.9	301.2	301.2	303.1	307.0	311.4	310.8	306.3	301.9	300.0
72.5°	307.6	308.2	307.0	307.0	308.9	312.7	317.2	316.5	312.1	307.0	305.7
75°	312.1	313.3	312.1	311.4	313.3	317.2	321.6	321.6	317.2	311.4	310.2
77.5°	317.2	317.8	316.5	316.5	317.8	322.3	326.1	326.1	322.3	316.5	314.6
80°	321.0	321.6	321.0	320.3	321.6	325.4	329.9	329.9	326.1	320.3	318.4
82.5°	324.2	324.2	323.5	323.5	324.8	328.6	332.4	332.4	328.6	323.5	322.3
85°	326.7	327.3	326.7	326.1	327.3	331.2	335.0	335.0	331.2	325.4	324.2
87.5°	328.0	328.6	328.0	328.0	328.6	332.4	336.3	335.6	332.4	326.7	325.4
90°	329.3	329.3	328.6	328.6	329.3	333.1	336.9	336.9	333.1	328.0	326.7
92.5°	329.3	329.9	329.3	329.3	329.9	332.4	336.3	336.9	333.1	328.0	326.7
95°	328.6	328.6	328.6	328.0	328.6	331.8	335.6	335.6	332.4	326.7	325.4
97.5°	327.3	327.3	326.7	326.7	327.3	330.5	333.7	333.7	330.5	325.4	324.2
100°	324.2	324.8	324.8	324.2	324.8	327.3	331.2	331.2	327.3	322.9	321.6
102.5°	321.6	321.0	321.0	321.0	321.0	323.5	327.3	326.7	323.5	319.1	317.8
105°	317.2	317.2	316.5	316.5	317.2	319.7	323.5	322.9	319.1	314.6	313.3
107.5°	312.1	312.1	311.4	311.4	312.1	314.6	318.4	317.8	314.0	309.5	308.2
110°	305.7	305.7	305.1	304.4	306.3	308.9	312.7	312.1	308.2	303.8	302.5



REPORT NUMBER: P256813

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	299.3	299.3	299.3	298.7	300.6	303.1	306.3	305.7	301.9	297.4	296.8
115°	292.3	292.3	291.7	291.7	294.2	296.8	300.0	298.7	294.9	291.0	289.8
117.5°	285.3	285.3	284.0	284.0	286.6	289.8	293.0	291.7	287.9	284.0	282.8
120°	277.7	277.7	276.4	276.4	279.6	282.8	286.0	284.7	280.9	276.4	275.8
122.5°	269.4	269.4	268.1	268.8	271.9	275.1	278.3	277.0	273.2	269.4	268.1
125°	260.5	260.5	259.8	260.5	263.7	266.8	270.0	268.8	264.9	261.7	259.8
127.5°	251.6	251.6	251.6	252.2	255.4	258.6	261.7	259.8	256.7	252.8	252.2
130°	242.6	242.6	242.0	243.3	246.5	249.6	252.2	251.6	247.7	244.6	243.3
132.5°	233.1	233.1	233.1	233.7	236.9	240.1	243.3	242.0	238.8	235.0	233.7
135°	222.9	222.9	223.5	224.2	227.4	230.5	233.1	231.8	229.3	225.4	223.5
137.5°	212.7	213.3	213.3	214.6	217.2	220.4	222.3	221.6	218.4	215.3	214.0
140°	202.5	202.5	203.2	204.4	207.0	209.5	210.8	210.2	208.3	205.1	203.2
142.5°	192.3	192.3	193.0	194.2	196.2	198.1	200.0	199.3	197.4	194.9	193.0
145°	182.1	182.1	182.8	184.1	186.0	187.2	189.1	188.5	186.6	184.1	182.1
147.5°	173.2	172.6	173.2	174.5	176.4	177.0	178.3	178.3	176.4	173.9	172.6
150°	163.7	163.7	164.3	164.9	166.2	167.5	168.1	168.1	166.2	163.7	162.4
152.5°	152.2	152.2	152.8	154.8	155.4	157.3	157.9	156.7	155.4	152.2	151.6
155°	143.3	143.3	143.3	144.6	145.2	145.8	146.5	145.8	144.6	142.7	142.0
157.5°	135.0	134.4	134.4	135.7	136.3	136.3	136.9	136.3	135.7	133.7	133.1
160°	126.1	126.1	126.1	126.7	126.7	128.0	128.0	127.4	126.1	125.5	124.2
162.5°	117.8	117.8	117.8	117.8	118.5	118.5	118.5	117.8	117.2	116.5	115.9
165°	109.5	109.5	109.5	109.5	109.5	110.2	110.2	109.5	108.9	108.3	108.3
167.5°	102.5	102.5	101.9	101.9	102.5	102.5	102.5	101.9	101.9	101.3	101.3
170°	95.5	96.2	96.2	95.5	95.5	95.5	95.5	95.5	95.5	94.9	94.9
172.5°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	89.8	89.8
175°	86.6	86.6	86.6	86.0	86.6	86.6	86.6	86.0	86.0	86.0	86.0
177.5°	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
180°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4



REPORT NUMBER: P256813

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	40.8	40.8	41.4	41.4	42.0	42.0	42.0	42.0	42.0	42.0
5°	43.9	43.9	44.6	44.6	44.6	45.2	45.2	45.2	45.2	45.2
7.5°	51.6	52.2	52.9	52.2	52.2	52.9	52.2	52.2	52.9	52.9
10°	59.2	59.9	60.5	60.5	60.5	60.5	60.5	60.5	60.5	59.9
12.5°	68.1	68.1	68.1	68.8	68.8	68.8	68.8	68.8	69.4	68.8
15°	76.4	76.4	76.4	77.1	77.1	77.1	77.1	77.7	78.3	77.7
17.5°	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.6	87.2	86.6
20°	94.9	94.9	94.3	94.3	94.3	94.3	94.9	95.5	95.5	95.5
22.5°	105.7	104.4	104.4	103.8	103.8	104.4	105.1	105.7	105.7	105.1
25°	117.2	115.9	114.6	115.3	114.6	115.3	115.9	116.5	116.5	115.9
27.5°	129.3	128.0	126.7	126.7	126.1	126.7	126.7	128.0	128.6	128.0
30°	142.0	140.7	138.8	138.8	138.2	138.2	139.5	140.1	140.7	140.1
32.5°	155.4	152.8	152.2	151.6	150.3	150.3	151.6	152.2	153.5	152.8
35°	169.4	167.5	164.9	163.7	163.7	164.3	164.9	165.6	167.5	166.9
37.5°	182.1	179.6	177.7	176.4	176.4	176.4	178.3	179.0	180.2	179.6
40°	194.2	191.7	189.8	188.5	188.5	188.5	190.4	191.1	193.0	193.0
42.5°	205.7	203.2	202.5	200.6	200.0	200.6	201.9	203.8	205.7	205.7
45°	216.5	214.6	213.3	212.1	211.4	212.1	213.3	215.9	217.8	217.2
47.5°	227.4	225.4	224.2	222.9	222.3	222.3	224.2	226.7	229.3	228.6
50°	237.5	235.6	234.4	233.7	233.1	233.1	235.0	237.5	240.7	240.1
52.5°	246.5	245.2	244.6	243.9	242.6	242.6	244.6	247.7	250.3	250.9
55°	255.4	254.1	254.1	252.8	252.2	252.2	254.1	257.3	259.8	260.5
57.5°	264.3	263.0	263.7	262.4	261.1	260.5	263.0	266.8	269.4	270.7
60°	271.9	271.3	271.3	270.7	269.4	268.8	271.3	275.1	278.3	278.9
62.5°	279.6	278.9	279.6	278.9	277.0	276.4	278.9	282.8	286.6	287.2
65°	286.6	286.0	287.9	286.6	284.7	284.0	286.6	291.0	294.9	295.5
67.5°	293.0	293.0	294.2	293.6	291.0	290.4	293.0	297.4	301.9	302.5
70°	299.3	300.0	301.9	300.6	298.1	297.4	299.3	304.4	308.9	309.5
72.5°	304.4	305.7	308.2	307.0	303.8	302.5	305.7	310.8	315.2	315.9
75°	310.2	310.8	312.7	312.1	309.5	307.6	310.8	315.9	320.3	321.0
77.5°	314.6	315.9	318.4	317.2	314.0	312.7	315.9	321.0	325.4	325.4
80°	318.4	320.3	322.3	321.6	318.4	316.5	319.7	324.8	329.3	329.3
82.5°	321.6	323.5	325.4	324.8	321.6	319.7	322.3	327.3	332.4	333.1
85°	324.2	326.1	328.6	328.0	324.2	322.3	324.8	330.5	334.4	335.0
87.5°	324.8	327.3	330.5	328.6	326.1	323.5	326.7	331.2	335.6	336.3
90°	326.1	328.6	331.2	330.5	327.3	324.8	327.3	332.4	336.3	337.5
92.5°	326.1	328.6	331.2	330.5	327.3	324.8	327.3	332.4	336.3	336.9
95°	325.4	328.0	330.5	329.9	326.1	324.2	326.7	331.2	335.6	335.6
97.5°	323.5	326.1	328.6	328.0	324.8	322.3	324.8	329.3	333.7	333.7
100°	321.0	323.5	326.7	326.1	322.3	320.3	322.3	327.3	331.2	331.2
102.5°	317.2	319.7	322.9	322.3	319.1	316.5	318.4	323.5	326.7	326.7
105°	313.3	315.2	318.4	317.8	314.6	312.1	314.6	319.1	322.9	323.5
107.5°	308.2	310.2	313.3	313.3	310.2	307.6	309.5	314.6	317.8	318.4
110°	302.5	304.4	307.0	307.0	304.4	301.9	303.8	308.2	312.7	312.7



REPORT NUMBER: P256813

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	296.1	298.1	300.6	300.6	297.4	295.5	297.4	302.5	306.3	306.3
115°	289.8	291.0	293.6	293.6	291.0	289.1	291.7	296.1	300.0	300.0
117.5°	282.8	284.0	286.0	286.6	284.0	282.1	284.7	288.5	293.0	293.0
120°	275.1	276.4	278.3	278.3	276.4	275.1	277.0	281.5	285.3	286.0
122.5°	268.1	268.8	270.0	270.0	268.1	267.5	269.4	274.5	277.7	278.3
125°	259.8	259.8	261.7	261.1	259.8	259.2	261.7	265.6	269.4	269.4
127.5°	251.6	251.6	252.2	252.2	250.9	250.3	253.5	257.3	260.5	261.1
130°	242.6	242.0	242.6	242.6	242.0	242.0	244.6	248.4	251.6	252.2
132.5°	233.1	232.5	232.5	232.5	232.5	232.5	235.0	238.8	242.0	242.6
135°	222.9	222.3	222.3	222.3	221.6	222.9	225.4	228.6	231.8	232.5
137.5°	213.3	212.1	212.1	211.4	212.1	213.3	215.3	218.4	221.6	221.6
140°	202.5	200.6	200.6	200.6	201.9	203.2	205.1	208.3	210.8	211.4
142.5°	192.3	190.4	189.8	190.4	191.1	192.3	194.9	198.1	200.0	200.0
145°	181.5	179.6	179.0	179.6	180.9	182.8	184.7	187.2	189.1	189.1
147.5°	172.0	170.0	169.4	169.4	171.3	173.2	175.1	177.7	179.0	179.0
150°	161.8	159.9	159.2	159.9	161.8	163.0	165.6	167.5	168.8	168.8
152.5°	150.9	149.0	148.4	149.0	150.3	152.2	154.8	156.7	158.6	157.9
155°	141.4	139.5	138.8	139.5	140.7	142.7	143.9	145.8	147.1	146.5
157.5°	132.5	131.2	130.6	131.2	132.5	133.7	135.0	136.3	137.6	136.9
160°	124.2	122.9	122.9	122.9	123.6	125.5	126.1	127.4	128.0	128.0
162.5°	115.9	114.6	114.6	115.3	115.9	117.2	117.8	118.5	118.5	118.5
165°	108.3	107.0	107.0	107.6	107.6	108.9	108.9	109.5	110.2	109.5
167.5°	101.3	100.6	100.0	100.6	101.3	101.9	101.9	101.9	102.5	101.9
170°	94.9	94.9	94.3	94.3	94.9	95.5	95.5	95.5	95.5	95.5
172.5°	89.8	89.8	89.8	89.8	90.4	90.4	90.4	90.4	90.4	90.4
175°	86.0	86.0	86.0	86.0	86.6	86.6	86.6	86.6	86.6	86.6
177.5°	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
180°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4

(END OF REPORT)