

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: P256818

Luminaire Tested: **ULA-A5-D-U-SYM-VMx-7027-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256818
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-A5-D-U-SYM-VMx-7027-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (90) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.4 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type V - 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



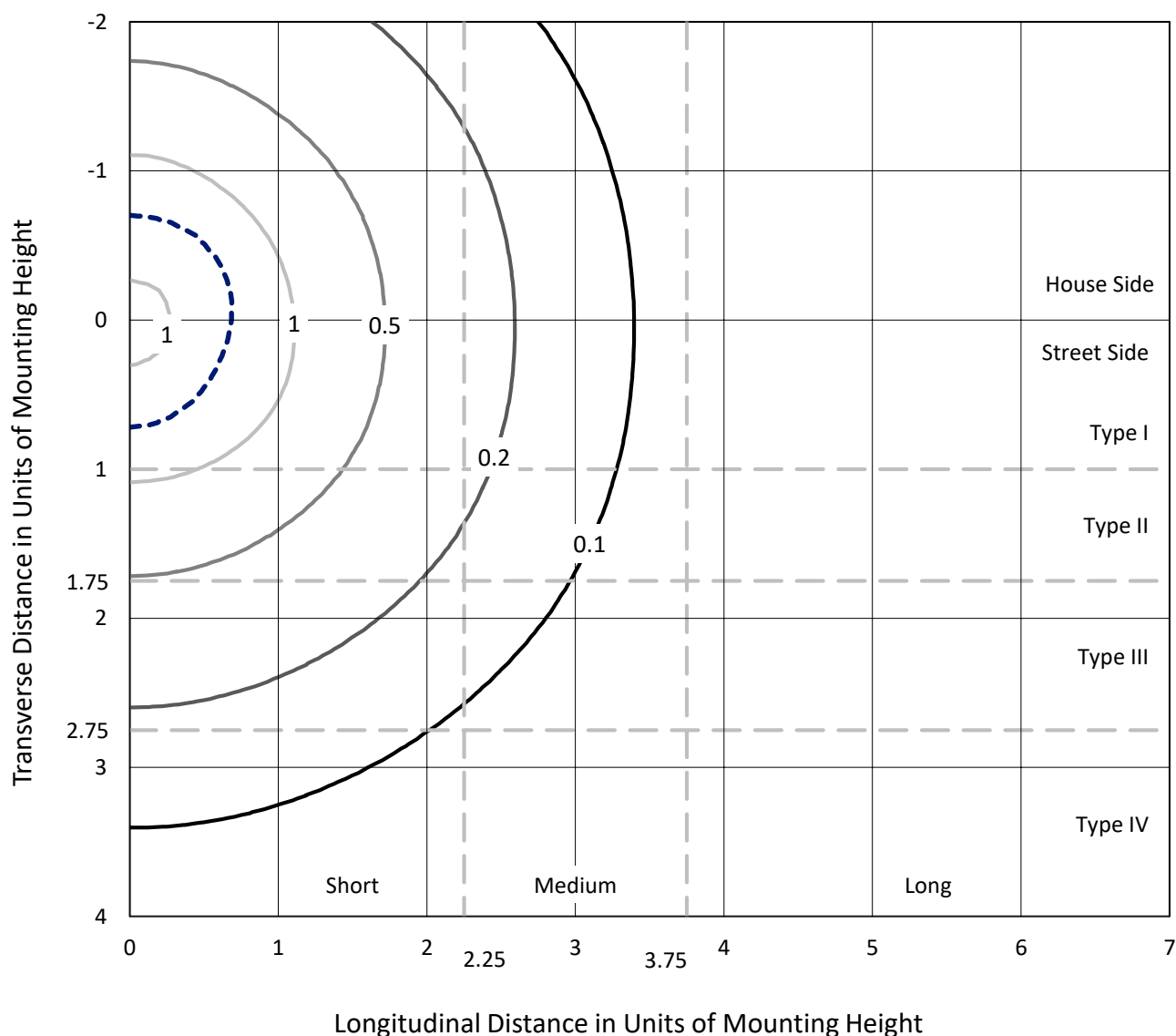
REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

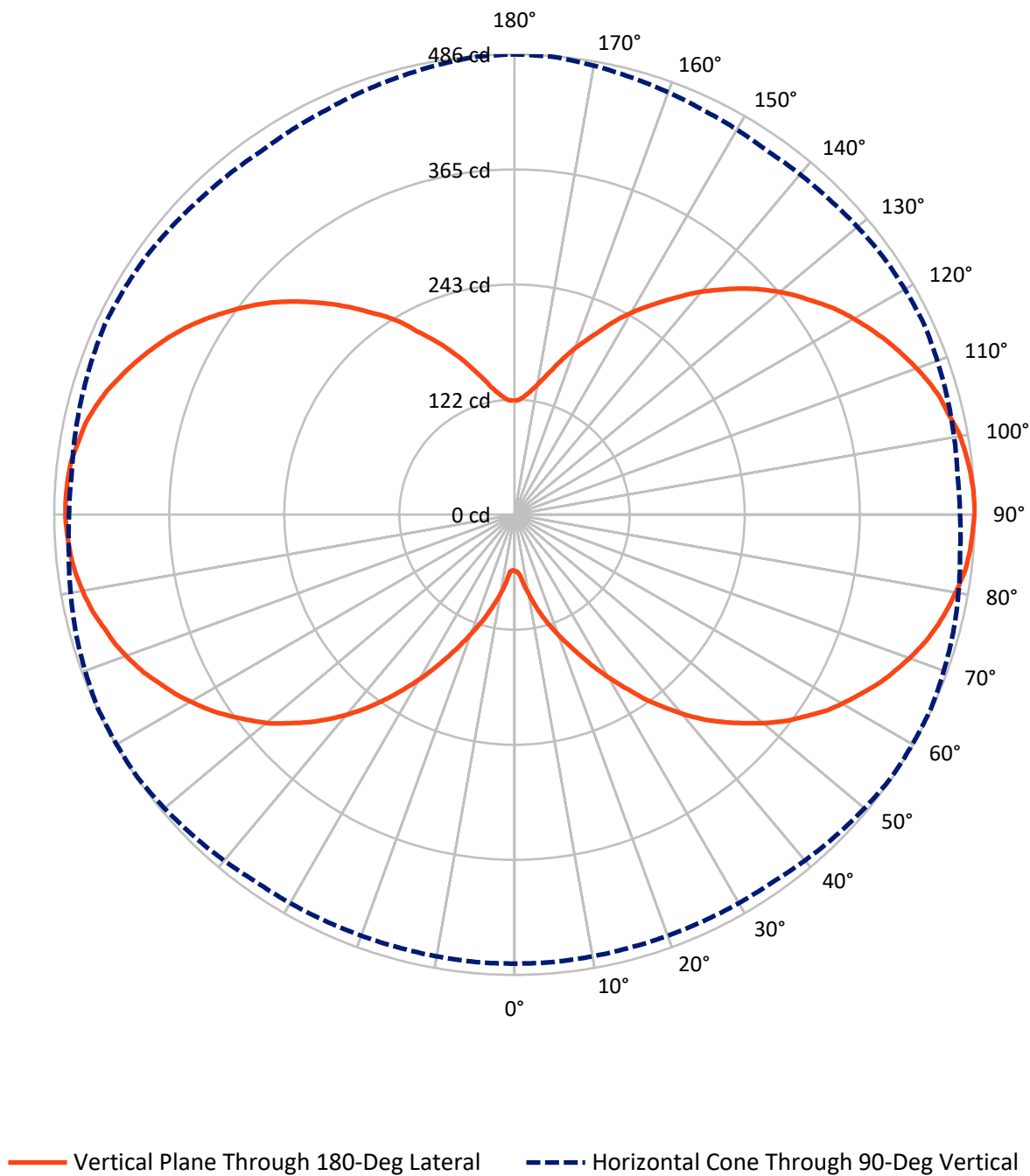


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

Luminous Intensity Polar Plot



REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

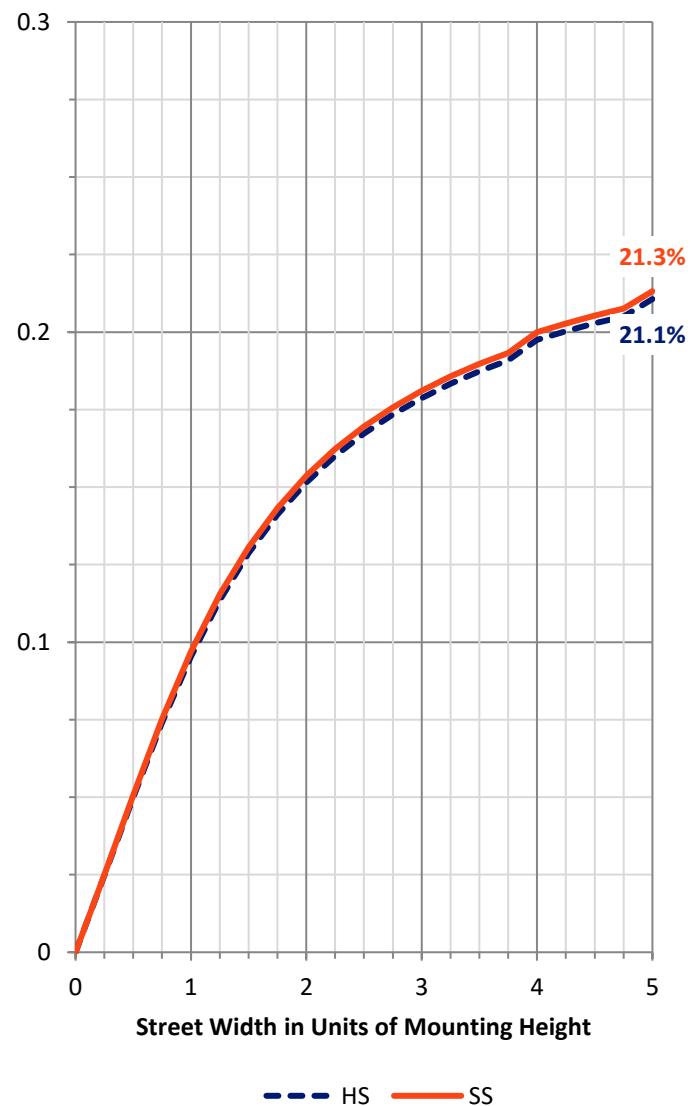
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.0	1162.8	2280.9
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	1133.2	1172.4	2305.5
	% Fixture	24.7	25.6	50.3
Total	Lumens	2251.2	2335.2	4586.4
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	31.9	0.7
20°-30°	78.7	1.7
30°-40°	152.5	3.3
40°-50°	242.1	5.3
50°-60°	332.6	7.3
60°-70°	413.9	9.0
70°-80°	478.0	10.4
80°-90°	514.8	11.2
90°-100°	517.2	11.3
100°-110°	483.2	10.5
110°-120°	419.8	9.2
120°-130°	340.1	7.4
130°-140°	252.6	5.5
140°-150°	167.7	3.7
150°-160°	96.9	2.1
160°-170°	45.4	1.0
170°-180°	12.3	0.3
0°-90°	2251.2	49.1
0°-180°	4586.4	100.0

Coefficient of Utilization



REPORT NUMBER: P256818

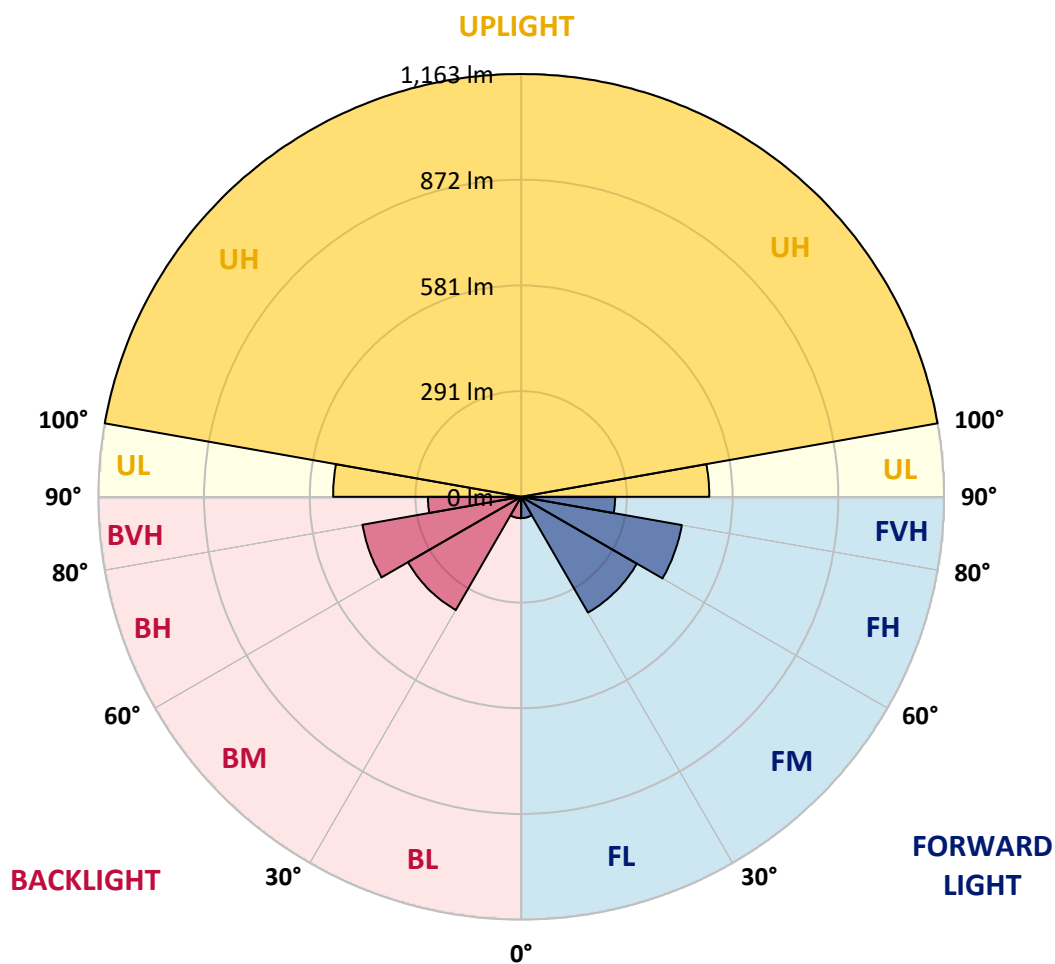
CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.6	1.3			
FM	(30°-60°)	367.5	8.0			
FH	(60°-80°)	448.7	9.8			G0/660
FVH	(80°-90°)	258.3	5.6			G3/500
BL	(0°-30°)	58.8	1.3	B0/110		
BM	(30°-60°)	359.6	7.8	B1/1000		
BH	(60°-80°)	443.2	9.7	B1/500		G0/660
BVH	(80°-90°)	256.4	5.6			G3/500
UL	(90°-100°)	517.2	11.3		U4/1000	
UH	(100°-180°)	1162.8	25.4		U5	

BUG Rating: B1-U5-G3

Type V Short





REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	58.7	58.7	58.7	57.8	57.8	57.8	57.8	57.8	57.8	58.7	58.7
5°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	61.5	62.4	62.4	63.3
7.5°	71.6	70.7	70.7	70.7	70.7	70.7	70.7	71.6	72.5	73.4	73.4
10°	82.6	81.7	81.7	82.6	82.6	83.5	82.6	84.4	84.4	85.3	86.3
12.5°	93.6	92.7	93.6	94.5	95.4	95.4	96.3	97.3	97.3	98.2	98.2
15°	105.5	104.6	105.5	106.4	107.4	108.3	109.2	110.1	111.0	111.0	110.1
17.5°	118.4	117.5	118.4	119.3	120.2	121.1	123.0	123.9	123.9	123.9	123.9
20°	131.2	130.3	131.2	133.1	134.0	134.9	137.6	138.6	137.6	137.6	136.7
22.5°	145.9	145.0	145.9	147.7	150.5	151.4	153.2	154.2	153.2	153.2	152.3
25°	161.5	161.5	162.4	164.2	167.0	168.8	171.6	172.5	170.7	170.7	169.8
27.5°	178.9	178.9	179.8	182.6	184.4	187.2	190.9	190.9	189.9	189.0	188.1
30°	197.3	196.4	198.2	201.0	203.7	206.5	210.1	212.0	211.0	208.3	206.5
32.5°	215.6	214.7	216.6	220.2	223.9	226.6	230.3	231.2	230.3	227.6	225.7
35°	234.9	235.8	236.7	239.5	244.1	246.8	250.5	251.4	249.6	247.8	245.0
37.5°	254.2	254.2	256.0	258.8	263.4	266.1	269.8	270.7	269.8	266.1	264.3
40°	272.5	272.5	274.4	277.1	280.8	284.5	288.1	290.0	287.2	284.5	281.7
42.5°	290.0	290.0	291.8	293.6	297.3	301.9	305.6	307.4	305.6	301.0	298.2
45°	307.4	307.4	309.2	311.1	314.7	318.4	323.0	323.9	321.2	316.6	314.7
47.5°	323.0	323.0	324.8	326.7	330.3	334.9	338.6	339.5	336.8	332.2	329.4
50°	339.5	338.6	340.4	342.3	345.9	350.5	354.2	354.2	351.4	345.9	343.2
52.5°	353.3	354.2	354.2	356.0	359.7	363.4	368.0	368.9	365.2	358.8	356.9
55°	367.0	368.0	368.0	368.9	372.5	377.1	382.6	381.7	378.1	372.5	368.9
57.5°	380.8	380.8	381.7	381.7	384.5	390.0	395.5	394.6	390.9	384.5	381.7
60°	392.7	392.7	392.7	394.6	396.4	401.0	406.5	407.4	401.9	395.5	392.7
62.5°	404.7	404.7	404.7	405.6	407.4	412.0	418.4	418.4	412.0	405.6	402.8
65°	414.8	415.7	415.7	415.7	418.4	423.9	428.5	428.5	423.9	415.7	413.8
67.5°	425.8	425.8	424.8	424.8	427.6	432.2	438.6	438.6	433.1	424.8	423.0
70°	434.9	434.9	434.0	434.0	436.8	442.3	448.7	447.8	441.4	434.9	432.2
72.5°	443.2	444.1	442.3	442.3	445.0	450.5	457.0	456.0	449.6	442.3	440.4
75°	449.6	451.5	449.6	448.7	451.5	457.0	463.4	463.4	457.0	448.7	446.9
77.5°	457.0	457.9	456.0	456.0	457.9	464.3	469.8	469.8	464.3	456.0	453.3
80°	462.5	463.4	462.5	461.6	463.4	468.9	475.3	475.3	469.8	461.6	458.8
82.5°	467.1	467.1	466.1	466.1	468.0	473.5	479.0	479.0	473.5	466.1	464.3
85°	470.7	471.6	470.7	469.8	471.6	477.2	482.7	482.7	477.2	468.9	467.1
87.5°	472.6	473.5	472.6	472.6	473.5	479.0	484.5	483.6	479.0	470.7	468.9
90°	474.4	474.4	473.5	473.5	474.4	479.9	485.4	485.4	479.9	472.6	470.7
92.5°	474.4	475.3	474.4	474.4	475.3	479.0	484.5	485.4	479.9	472.6	470.7
95°	473.5	473.5	473.5	472.6	473.5	478.1	483.6	483.6	479.0	470.7	468.9
97.5°	471.6	471.6	470.7	470.7	471.6	476.2	480.8	480.8	476.2	468.9	467.1
100°	467.1	468.0	468.0	467.1	468.0	471.6	477.2	477.2	471.6	465.2	463.4
102.5°	463.4	462.5	462.5	462.5	462.5	466.1	471.6	470.7	466.1	459.7	457.9
105°	457.0	457.0	456.0	456.0	457.0	460.6	466.1	465.2	459.7	453.3	451.5
107.5°	449.6	449.6	448.7	448.7	449.6	453.3	458.8	457.9	452.4	446.0	444.1
110°	440.4	440.4	439.5	438.6	441.4	445.0	450.5	449.6	444.1	437.7	435.9



REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	431.3	431.3	431.3	430.4	433.1	436.8	441.4	440.4	434.9	428.5	427.6
115°	421.2	421.2	420.3	420.3	423.9	427.6	432.2	430.4	424.8	419.3	417.5
117.5°	411.1	411.1	409.2	409.2	412.9	417.5	422.1	420.3	414.8	409.2	407.4
120°	400.1	400.1	398.2	398.2	402.8	407.4	412.0	410.2	404.7	398.2	397.3
122.5°	388.1	388.1	386.3	387.2	391.8	396.4	401.0	399.2	393.6	388.1	386.3
125°	375.3	375.3	374.4	375.3	379.9	384.5	389.1	387.2	381.7	377.1	374.4
127.5°	362.5	362.5	362.5	363.4	368.0	372.5	377.1	374.4	369.8	364.3	363.4
130°	349.6	349.6	348.7	350.5	355.1	359.7	363.4	362.5	356.9	352.4	350.5
132.5°	335.8	335.8	335.8	336.8	341.3	345.9	350.5	348.7	344.1	338.6	336.8
135°	321.2	321.2	322.1	323.0	327.6	332.2	335.8	334.0	330.3	324.8	322.1
137.5°	306.5	307.4	307.4	309.2	312.9	317.5	320.2	319.3	314.7	310.1	308.3
140°	291.8	291.8	292.7	294.5	298.2	301.9	303.7	302.8	300.1	295.5	292.7
142.5°	277.1	277.1	278.0	279.9	282.6	285.4	288.1	287.2	284.5	280.8	278.0
145°	262.4	262.4	263.4	265.2	267.9	269.8	272.5	271.6	268.9	265.2	262.4
147.5°	249.6	248.7	249.6	251.4	254.2	255.1	256.9	256.9	254.2	250.5	248.7
150°	235.8	235.8	236.7	237.7	239.5	241.3	242.2	242.2	239.5	235.8	234.0
152.5°	219.3	219.3	220.2	223.0	223.9	226.6	227.6	225.7	223.9	219.3	218.4
155°	206.5	206.5	206.5	208.3	209.2	210.1	211.0	210.1	208.3	205.5	204.6
157.5°	194.5	193.6	193.6	195.4	196.4	196.4	197.3	196.4	195.4	192.7	191.8
160°	181.7	181.7	181.7	182.6	182.6	184.4	184.4	183.5	181.7	180.8	178.9
162.5°	169.8	169.8	169.8	169.8	170.7	170.7	170.7	169.8	168.8	167.9	167.0
165°	157.8	157.8	157.8	157.8	157.8	158.7	158.7	157.8	156.9	156.0	156.0
167.5°	147.7	147.7	146.8	146.8	147.7	147.7	147.7	146.8	146.8	145.9	145.9
170°	137.6	138.6	138.6	137.6	137.6	137.6	137.6	137.6	137.6	136.7	136.7
172.5°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	129.4	129.4
175°	124.8	124.8	124.8	123.9	124.8	124.8	124.8	123.9	123.9	123.9	123.9
177.5°	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1
180°	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2



REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	58.7	58.7	59.6	59.6	60.6	60.6	60.6	60.6	60.6	60.6
5°	63.3	63.3	64.2	64.2	64.2	65.1	65.1	65.1	65.1	65.1
7.5°	74.3	75.2	76.2	75.2	75.2	76.2	75.2	75.2	76.2	76.2
10°	85.3	86.3	87.2	87.2	87.2	87.2	87.2	87.2	87.2	86.3
12.5°	98.2	98.2	98.2	99.1	99.1	99.1	99.1	99.1	100.0	99.1
15°	110.1	110.1	110.1	111.0	111.0	111.0	111.0	111.9	112.9	111.9
17.5°	123.0	123.0	123.0	123.0	123.0	123.0	123.9	124.8	125.7	124.8
20°	136.7	136.7	135.8	135.8	135.8	135.8	136.7	137.6	137.6	137.6
22.5°	152.3	150.5	150.5	149.6	149.6	150.5	151.4	152.3	152.3	151.4
25°	168.8	167.0	165.2	166.1	165.2	166.1	167.0	167.9	167.9	167.0
27.5°	186.3	184.4	182.6	182.6	181.7	182.6	182.6	184.4	185.4	184.4
30°	204.6	202.8	200.0	200.0	199.1	199.1	201.0	201.9	202.8	201.9
32.5°	223.9	220.2	219.3	218.4	216.6	216.6	218.4	219.3	221.1	220.2
35°	244.1	241.3	237.7	235.8	235.8	236.7	237.7	238.6	241.3	240.4
37.5°	262.4	258.8	256.0	254.2	254.2	254.2	256.9	257.8	259.7	258.8
40°	279.9	276.2	273.4	271.6	271.6	271.6	274.4	275.3	278.0	278.0
42.5°	296.4	292.7	291.8	289.0	288.1	289.0	290.9	293.6	296.4	296.4
45°	312.0	309.2	307.4	305.6	304.6	305.6	307.4	311.1	313.8	312.9
47.5°	327.6	324.8	323.0	321.2	320.2	320.2	323.0	326.7	330.3	329.4
50°	342.3	339.5	337.7	336.8	335.8	335.8	338.6	342.3	346.9	345.9
52.5°	355.1	353.3	352.4	351.4	349.6	349.6	352.4	356.9	360.6	361.5
55°	368.0	366.1	366.1	364.3	363.4	363.4	366.1	370.7	374.4	375.3
57.5°	380.8	379.0	379.9	378.1	376.2	375.3	379.0	384.5	388.1	390.0
60°	391.8	390.9	390.9	390.0	388.1	387.2	390.9	396.4	401.0	401.9
62.5°	402.8	401.9	402.8	401.9	399.2	398.2	401.9	407.4	412.9	413.8
65°	412.9	412.0	414.8	412.9	410.2	409.2	412.9	419.3	424.8	425.8
67.5°	422.1	422.1	423.9	423.0	419.3	418.4	422.1	428.5	434.9	435.9
70°	431.3	432.2	434.9	433.1	429.4	428.5	431.3	438.6	445.0	446.0
72.5°	438.6	440.4	444.1	442.3	437.7	435.9	440.4	447.8	454.2	455.1
75°	446.9	447.8	450.5	449.6	446.0	443.2	447.8	455.1	461.6	462.5
77.5°	453.3	455.1	458.8	457.0	452.4	450.5	455.1	462.5	468.9	468.9
80°	458.8	461.6	464.3	463.4	458.8	456.0	460.6	468.0	474.4	474.4
82.5°	463.4	466.1	468.9	468.0	463.4	460.6	464.3	471.6	479.0	479.9
85°	467.1	469.8	473.5	472.6	467.1	464.3	468.0	476.2	481.7	482.7
87.5°	468.0	471.6	476.2	473.5	469.8	466.1	470.7	477.2	483.6	484.5
90°	469.8	473.5	477.2	475.3	470.7	468.0	471.6	478.1	485.4	486.3
92.5°	469.8	473.5	477.2	476.2	471.6	468.0	471.6	479.0	484.5	485.4
95°	468.9	472.6	476.2	475.3	469.8	467.1	470.7	477.2	483.6	483.6
97.5°	466.1	469.8	473.5	472.6	468.0	464.3	468.0	474.4	480.8	480.8
100°	462.5	466.1	470.7	469.8	464.3	461.6	464.3	471.6	477.2	477.2
102.5°	457.0	460.6	465.2	464.3	459.7	456.0	458.8	466.1	470.7	470.7
105°	451.5	454.2	458.8	457.9	453.3	449.6	453.3	459.7	465.2	466.1
107.5°	444.1	446.9	451.5	451.5	446.9	443.2	446.0	453.3	457.9	458.8
110°	435.9	438.6	442.3	442.3	438.6	434.9	437.7	444.1	450.5	450.5



REPORT NUMBER: P256818

CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	426.7	429.4	433.1	433.1	428.5	425.8	428.5	435.9	441.4	441.4
115°	417.5	419.3	423.0	423.0	419.3	416.6	420.3	426.7	432.2	432.2
117.5°	407.4	409.2	412.0	412.9	409.2	406.5	410.2	415.7	422.1	422.1
120°	396.4	398.2	401.0	401.0	398.2	396.4	399.2	405.6	411.1	412.0
122.5°	386.3	387.2	389.1	389.1	386.3	385.4	388.1	395.5	400.1	401.0
125°	374.4	374.4	377.1	376.2	374.4	373.5	377.1	382.6	388.1	388.1
127.5°	362.5	362.5	363.4	363.4	361.5	360.6	365.2	370.7	375.3	376.2
130°	349.6	348.7	349.6	349.6	348.7	348.7	352.4	357.9	362.5	363.4
132.5°	335.8	334.9	334.9	334.9	334.9	334.9	338.6	344.1	348.7	349.6
135°	321.2	320.2	320.2	320.2	319.3	321.2	324.8	329.4	334.0	334.9
137.5°	307.4	305.6	305.6	304.6	305.6	307.4	310.1	314.7	319.3	319.3
140°	291.8	289.0	289.0	289.0	290.9	292.7	295.5	300.1	303.7	304.6
142.5°	277.1	274.4	273.4	274.4	275.3	277.1	280.8	285.4	288.1	288.1
145°	261.5	258.8	257.8	258.8	260.6	263.4	266.1	269.8	272.5	272.5
147.5°	247.8	245.0	244.1	244.1	246.8	249.6	252.3	256.0	257.8	257.8
150°	233.1	230.3	229.4	230.3	233.1	234.9	238.6	241.3	243.2	243.2
152.5°	217.5	214.7	213.8	214.7	216.6	219.3	223.0	225.7	228.5	227.6
155°	203.7	201.0	200.0	201.0	202.8	205.5	207.4	210.1	212.0	211.0
157.5°	190.9	189.0	188.1	189.0	190.9	192.7	194.5	196.4	198.2	197.3
160°	178.9	177.1	177.1	177.1	178.0	180.8	181.7	183.5	184.4	184.4
162.5°	167.0	165.2	165.2	166.1	167.0	168.8	169.8	170.7	170.7	170.7
165°	156.0	154.2	154.2	155.1	155.1	156.9	156.9	157.8	158.7	157.8
167.5°	145.9	145.0	144.1	145.0	145.9	146.8	146.8	146.8	147.7	146.8
170°	136.7	136.7	135.8	135.8	136.7	137.6	137.6	137.6	137.6	137.6
172.5°	129.4	129.4	129.4	129.4	130.3	130.3	130.3	130.3	130.3	130.3
175°	123.9	123.9	123.9	123.9	124.8	124.8	124.8	124.8	124.8	124.8
177.5°	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1	121.1
180°	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2

(END OF REPORT)