

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: P256833

Luminaire Tested: **ULA-A3-D-U-SYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256833
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-7027-HSS-BK
Description: UTILITY LIGHT ACORN SYMMETRIC W/ HSS
Light Source: (90) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U4 - 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



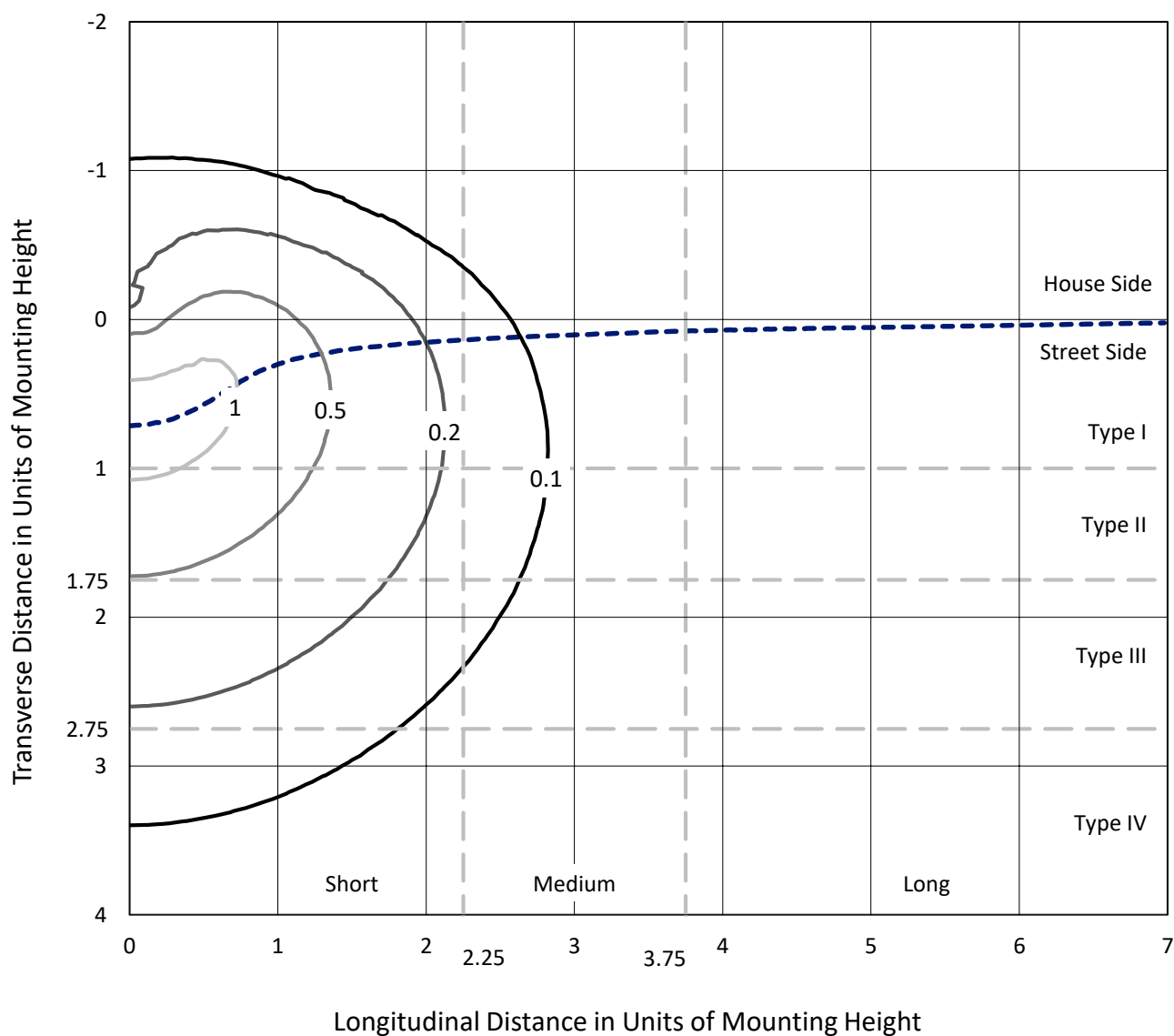
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

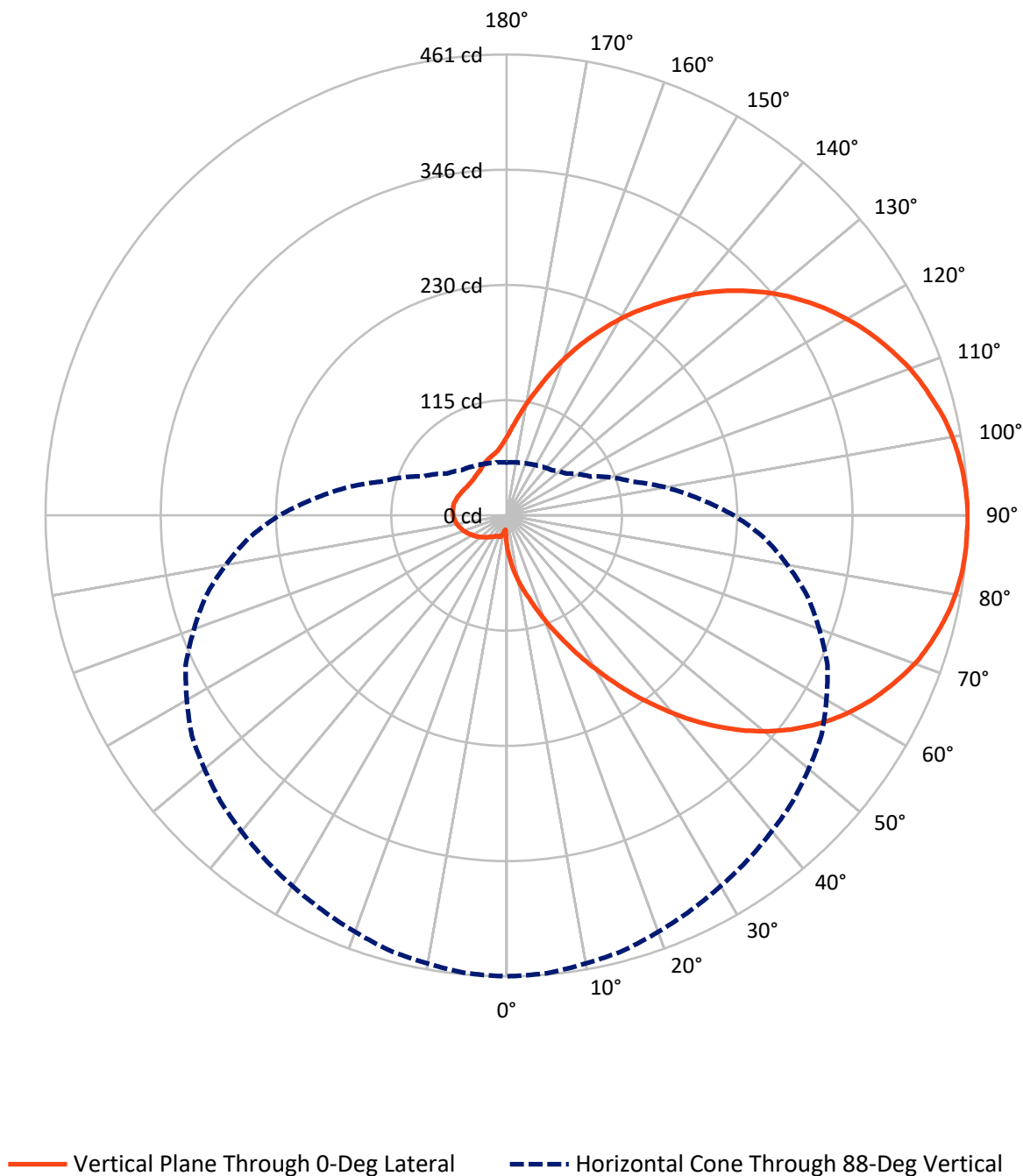


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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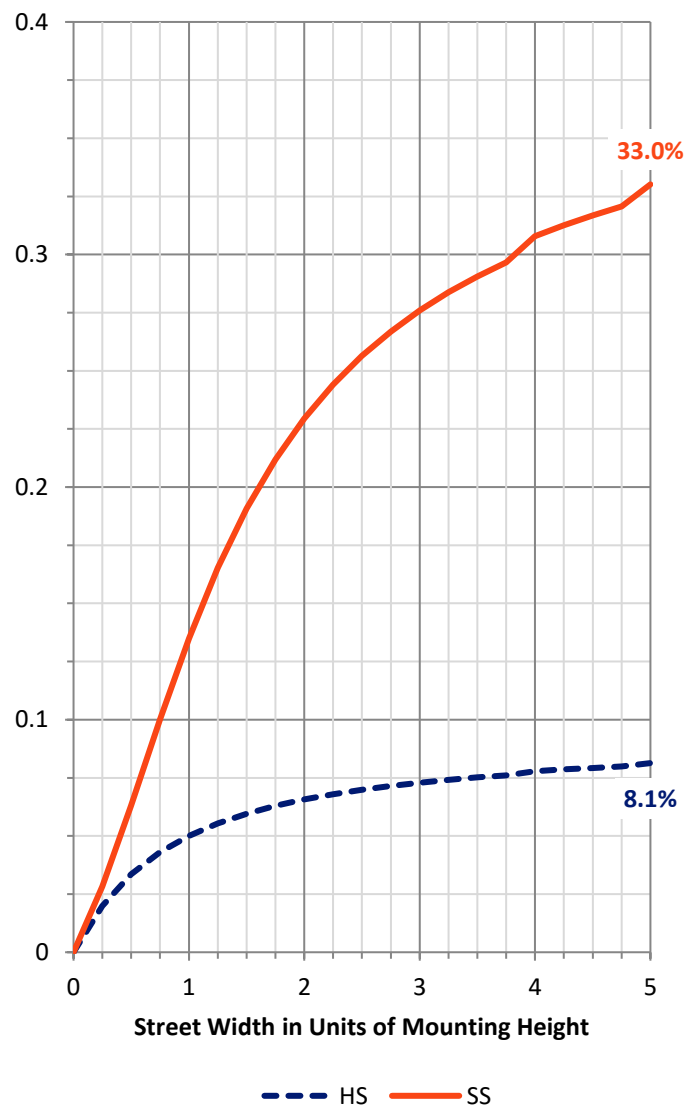
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	216.6	284.2	500.8
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	927.4	966.8	1894.2
	% Fixture	38.7	40.4	79.1
Total	Lumens	1143.9	1251.1	2395.0
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	16.2	0.7
20°-30°	40.7	1.7
30°-40°	79.2	3.3
40°-50°	125.9	5.3
50°-60°	171.5	7.2
60°-70°	210.6	8.8
70°-80°	240.1	10.0
80°-90°	256.3	10.7
90°-100°	257.8	10.8
100°-110°	244.6	10.2
110°-120°	219.6	9.2
120°-130°	185.9	7.8
130°-140°	144.8	6.0
140°-150°	100.8	4.2
150°-160°	60.7	2.5
160°-170°	29.0	1.2
170°-180°	7.9	0.3
0°-90°	1143.9	47.8
0°-180°	2395.0	100.0

Coefficient of Utilization



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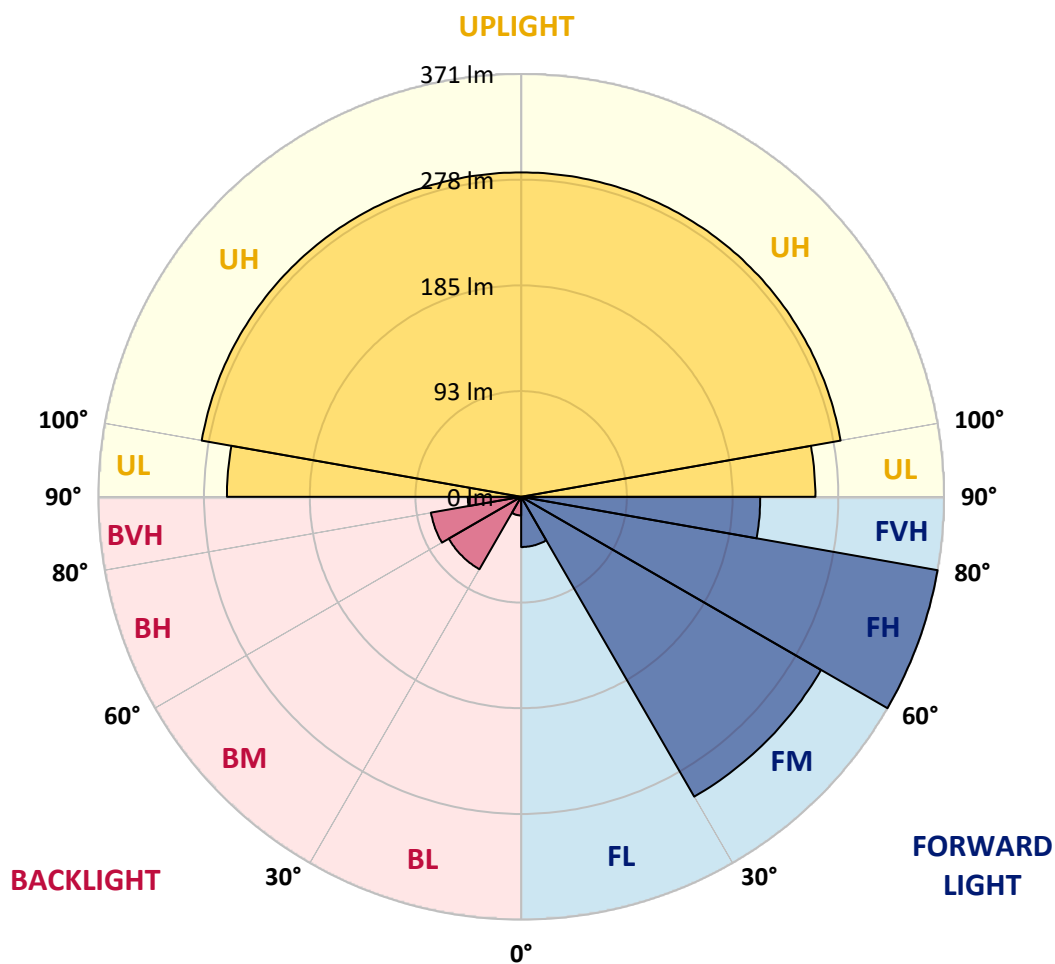
CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	44.0	1.8			
FM	(30°-60°)	303.4	12.7			
FH	(60°-80°)	370.5	15.5			G0/660
FVH	(80°-90°)	209.5	8.7			G2/225
BL	(0°-30°)	16.3	0.7	B0/110		
BM	(30°-60°)	73.3	3.1	B0/220		
BH	(60°-80°)	80.2	3.3	B0/110		G0/110
BVH	(80°-90°)	46.8	2.0			G1/100
UL	(90°-100°)	257.8	10.8		U3/500	
UH	(100°-180°)	284.2	11.9		U3/500	

BUG Rating: B0-U4-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
2.5°	38.0	38.0	37.3	37.7	36.6	35.9	34.5	33.0	32.0	30.5	29.8
5°	48.3	47.6	46.9	46.2	44.4	42.6	40.8	38.4	35.9	33.4	32.0
7.5°	57.9	57.5	56.1	55.1	52.9	50.8	48.3	45.1	42.3	39.1	37.3
10°	67.5	67.1	65.7	64.6	62.2	60.0	56.8	53.3	49.7	45.5	43.3
12.5°	77.1	76.7	75.3	74.6	72.5	70.0	66.4	61.8	57.5	52.6	50.1
15°	87.0	87.0	86.7	85.2	82.8	80.3	76.7	71.4	66.1	60.0	57.2
17.5°	100.2	99.5	98.4	97.3	95.2	92.4	87.0	82.0	75.3	68.2	63.9
20°	113.7	113.0	112.2	110.8	108.0	105.1	99.8	93.8	85.2	76.7	71.4
22.5°	128.2	127.5	126.8	125.4	122.5	119.3	113.7	106.6	97.7	86.7	79.9
25°	144.2	144.2	143.1	141.7	138.5	135.3	128.6	120.8	110.5	97.3	89.9
27.5°	162.3	161.3	160.9	159.1	156.3	152.4	145.3	136.0	124.0	108.7	100.5
30°	180.4	180.1	179.7	177.6	174.4	170.1	162.0	152.4	137.8	120.1	110.5
32.5°	200.0	200.3	198.9	196.4	192.9	188.3	179.4	168.0	152.4	131.4	120.4
35°	220.9	220.6	218.4	216.7	212.1	206.4	196.4	183.6	165.9	142.4	130.0
37.5°	241.2	241.5	239.4	236.6	231.2	224.8	213.8	199.3	178.7	153.1	139.2
40°	262.1	262.5	260.0	255.7	250.1	242.6	230.5	214.5	191.8	163.4	147.4
42.5°	282.7	282.7	280.2	276.0	268.2	259.6	246.5	229.1	203.9	172.6	155.6
45°	302.3	302.3	299.1	293.7	285.2	275.6	261.4	242.2	214.9	181.1	162.7
47.5°	321.4	321.1	317.5	310.4	302.3	291.3	276.3	254.3	225.5	189.3	169.1
50°	339.2	339.2	334.2	326.4	316.1	305.1	289.1	266.0	235.5	196.8	175.1
52.5°	355.5	355.2	349.9	341.3	330.0	318.3	301.2	276.7	244.0	203.5	180.8
55°	370.5	370.1	364.1	354.5	342.8	330.0	312.2	286.6	252.5	209.9	185.8
57.5°	384.3	384.0	376.9	366.2	354.5	341.0	322.5	295.9	260.4	216.0	190.7
60°	396.8	396.0	388.9	377.2	364.8	350.9	332.5	304.8	267.5	221.3	195.4
62.5°	407.8	407.1	399.2	387.2	374.0	359.8	340.3	312.2	273.9	226.6	199.3
65°	417.7	417.0	409.2	396.0	382.5	368.0	348.1	319.3	279.9	231.2	203.5
67.5°	426.9	426.2	417.4	403.9	390.4	375.4	355.5	326.1	285.6	235.8	207.4
70°	435.5	434.0	424.8	411.3	396.8	381.5	361.9	332.1	290.9	240.1	211.0
72.5°	441.9	440.8	431.6	417.4	402.8	387.9	367.6	337.1	295.9	244.0	214.2
75°	447.5	446.8	437.2	422.7	407.8	392.5	372.6	341.3	299.8	247.9	217.4
77.5°	452.5	451.1	441.9	427.3	412.0	396.4	376.5	345.6	303.3	250.8	219.9
80°	456.1	455.0	445.4	430.5	415.2	399.6	379.7	348.8	306.2	253.3	222.0
82.5°	458.6	457.1	447.9	433.0	417.7	401.7	381.8	350.6	308.3	255.4	224.1
85°	460.0	458.9	449.3	434.8	419.1	403.1	383.3	352.4	310.1	257.2	225.5
87.5°	460.3	459.6	450.4	435.5	419.8	404.2	384.0	353.4	311.1	258.2	226.6
88°	460.7	459.3	450.4	435.5	420.2	404.2	384.0	353.8	311.1	258.6	227.0
90°	460.7	459.3	450.4	435.8	420.2	403.9	384.3	354.1	311.5	258.9	227.7
92.5°	459.6	458.6	449.7	435.5	419.8	403.5	384.0	353.8	311.9	259.6	228.4
95°	457.8	456.8	448.3	434.0	418.4	402.4	382.9	353.1	311.5	259.6	228.4
97.5°	455.0	453.9	445.8	431.6	416.3	400.3	380.8	351.6	310.4	259.3	228.4
100°	451.5	450.4	442.2	428.4	413.1	397.5	378.3	349.9	309.0	258.6	228.0
102.5°	446.8	445.4	437.6	424.1	409.5	393.9	375.1	346.7	306.9	257.2	227.3
105°	440.4	439.7	432.3	419.1	404.2	389.3	370.8	343.5	304.4	255.4	225.9
107.5°	434.4	433.3	425.9	413.1	399.2	384.7	366.6	339.6	301.6	253.6	224.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	427.3	426.2	418.8	406.7	392.8	379.0	361.2	335.3	298.4	251.5	223.8
112.5°	418.8	418.1	410.6	399.2	386.1	373.0	355.9	330.7	294.8	249.3	222.4
115°	410.2	409.2	402.1	391.4	378.6	366.2	349.9	325.4	290.5	246.9	220.9
117.5°	401.0	399.9	392.8	382.5	370.8	358.7	343.1	319.7	286.3	244.0	219.2
120°	390.4	389.6	382.9	373.3	362.7	350.9	335.7	313.6	281.7	241.2	217.4
122.5°	379.7	378.6	372.6	363.7	353.8	342.8	328.2	307.2	276.3	237.6	215.2
125°	368.0	367.3	361.6	353.4	344.2	333.9	320.0	299.4	270.7	234.1	212.8
127.5°	355.9	354.8	349.5	342.1	333.9	323.9	311.1	292.0	264.6	229.5	209.9
130°	342.8	342.1	337.1	330.3	322.2	313.3	301.2	283.1	257.5	224.5	206.0
132.5°	328.9	328.2	323.9	318.3	310.1	301.9	290.5	273.1	249.3	218.8	201.7
135°	314.7	314.3	310.4	305.1	297.7	290.2	279.2	263.2	241.2	212.8	196.8
137.5°	300.1	299.8	296.2	290.9	285.2	277.4	267.1	252.2	231.9	205.7	190.7
140°	284.5	284.2	281.3	276.3	270.3	263.9	254.0	240.5	221.6	197.5	184.3
142.5°	268.9	268.5	266.0	262.5	256.8	250.1	240.8	228.0	211.3	189.3	177.2
145°	253.6	253.3	251.1	247.6	242.2	236.2	227.3	216.3	200.7	180.8	170.1
147.5°	239.0	238.3	236.6	233.7	228.7	222.7	214.5	204.2	190.0	172.3	162.7
150°	223.4	223.1	220.9	218.8	213.8	208.9	201.0	192.2	179.0	163.0	154.5
152.5°	207.8	207.4	206.0	203.5	199.3	194.6	187.5	179.4	168.0	153.8	146.3
155°	192.5	192.2	190.7	189.0	184.7	180.4	174.0	166.6	156.3	144.2	137.5
157.5°	177.2	177.2	176.5	174.4	170.5	166.6	160.2	154.5	145.3	134.6	129.3
160°	162.3	162.3	162.0	159.8	156.6	153.1	147.4	141.7	134.6	125.4	120.8
162.5°	147.8	147.0	147.4	146.0	142.8	139.9	135.0	130.4	123.6	115.8	111.9
165°	133.9	133.6	133.9	132.5	129.6	127.2	122.5	119.0	113.3	106.6	103.7
167.5°	121.5	121.5	121.1	120.1	117.6	115.4	111.9	108.7	104.1	98.7	96.3
170°	110.5	109.8	110.1	109.0	107.3	105.5	102.3	99.5	95.9	91.6	89.9
172.5°	100.2	99.5	99.8	98.7	97.7	96.3	94.1	91.6	88.8	84.9	83.8
175°	90.9	90.6	90.6	89.9	89.2	88.1	86.0	84.5	82.8	80.6	79.9
177.5°	82.8	82.0	82.4	82.0	81.7	81.3	80.6	79.9	78.9	77.8	77.4
180°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7



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CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
2.5°	29.1	27.7	25.9	24.2	22.4	21.0	20.2	19.2	19.2	18.5
5°	30.5	27.7	24.9	22.4	19.9	17.8	16.0	14.9	14.6	14.6
7.5°	35.5	32.3	28.8	25.6	22.7	20.2	18.1	16.3	15.6	15.3
10°	41.2	37.3	32.7	29.1	25.9	22.7	20.2	18.5	17.8	17.8
12.5°	47.2	42.3	36.9	32.3	28.1	24.9	22.4	21.0	20.2	19.9
15°	53.6	47.2	40.8	35.2	30.5	26.6	24.2	22.7	22.0	21.7
17.5°	60.0	52.2	44.8	38.0	32.3	28.4	25.2	23.1	22.4	22.4
20°	66.8	57.2	48.3	40.5	34.1	29.1	25.6	23.4	22.4	22.4
22.5°	74.6	62.9	51.9	43.0	35.5	30.2	26.3	23.8	22.4	22.4
25°	82.8	68.9	56.1	45.5	37.3	31.3	27.0	24.2	23.1	22.7
27.5°	92.0	74.9	60.4	48.0	39.1	32.3	27.7	24.9	23.4	23.4
30°	100.9	80.6	63.9	50.4	40.5	33.4	28.4	25.6	24.2	24.2
32.5°	109.4	86.3	67.1	52.6	41.9	34.5	29.5	26.3	25.2	24.9
35°	117.2	91.6	70.0	54.0	43.0	35.5	30.5	27.3	25.9	25.9
37.5°	124.7	96.3	72.5	55.4	44.0	36.2	31.6	28.4	27.0	27.0
40°	131.4	100.2	74.2	56.5	44.8	37.3	32.7	29.5	28.4	28.1
42.5°	137.8	103.4	75.7	57.2	45.5	38.4	33.7	30.9	29.5	29.5
45°	143.1	106.2	77.1	57.9	46.2	39.1	34.8	32.0	30.9	30.5
47.5°	148.1	108.7	77.8	58.6	46.9	40.1	35.9	33.4	32.3	32.0
50°	152.7	110.5	78.5	59.0	47.6	41.2	36.9	34.8	33.7	33.4
52.5°	157.0	112.2	78.9	59.3	48.3	41.9	38.4	35.9	34.8	34.8
55°	160.5	114.0	79.6	60.0	49.0	43.3	39.4	37.7	36.6	36.2
57.5°	164.5	115.4	80.3	60.4	50.1	44.4	40.8	39.1	38.0	37.7
60°	167.7	116.9	81.0	61.1	50.8	45.5	42.3	40.5	39.4	39.1
62.5°	170.8	117.9	81.3	61.8	51.9	46.9	43.7	41.9	40.8	40.5
65°	173.7	119.3	82.4	62.9	52.9	48.0	45.1	43.3	42.3	42.3
67.5°	176.5	120.8	83.1	63.6	54.3	49.4	46.5	44.8	43.7	43.7
70°	179.4	121.8	83.8	64.6	55.4	50.8	48.0	46.2	45.1	45.1
72.5°	181.9	123.3	84.9	66.1	56.8	52.2	49.4	47.6	46.5	46.5
75°	184.0	124.3	86.0	67.1	57.9	53.6	50.8	49.0	48.0	47.6
77.5°	186.5	125.7	87.4	68.2	59.3	55.1	52.2	50.4	49.0	49.0
80°	188.3	126.4	88.4	69.3	60.7	56.1	53.3	51.5	50.4	50.1
82.5°	190.0	127.9	89.5	70.3	61.8	57.2	54.3	52.6	51.5	51.1
85°	191.1	128.6	90.2	71.4	62.9	58.3	55.4	53.3	52.2	51.9
87.5°	192.2	129.6	91.3	72.5	63.9	59.3	56.5	54.3	52.9	52.6
88°	192.5	130.0	92.0	72.8	63.9	59.7	56.5	54.3	53.3	52.9
90°	193.2	130.7	92.7	73.5	64.6	60.0	57.2	54.7	53.6	53.3
92.5°	193.6	131.4	93.4	74.2	65.7	60.7	57.5	55.4	54.0	53.6
95°	194.3	132.1	94.5	75.3	66.4	61.4	57.9	55.8	54.3	54.0
97.5°	194.3	132.8	95.5	76.0	66.8	61.8	58.3	55.8	54.3	54.0
100°	194.3	133.6	96.6	76.7	67.5	61.8	58.3	55.8	54.3	54.0
102.5°	193.9	134.6	97.7	77.8	67.8	62.2	58.3	55.4	54.0	54.0
105°	193.6	135.3	98.7	78.9	68.6	62.2	57.9	55.1	53.6	53.6
107.5°	193.6	136.7	100.5	79.9	68.9	62.2	57.5	54.7	53.3	52.9



REPORT NUMBER: P256833

CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	193.2	138.2	102.7	81.7	70.0	62.5	57.5	54.3	52.6	52.6
112.5°	192.9	139.9	104.4	83.1	70.7	62.5	57.2	53.6	52.2	51.9
115°	193.2	141.7	106.9	84.9	71.7	62.9	56.8	53.3	51.5	51.1
117.5°	192.5	143.5	109.4	87.0	72.8	63.2	56.8	52.9	50.8	50.8
120°	192.2	145.3	111.9	89.9	74.2	63.6	56.5	52.2	50.4	50.1
122.5°	191.4	147.0	114.4	92.0	75.7	64.3	56.5	51.9	49.7	49.7
125°	190.4	148.1	116.1	93.8	76.7	64.6	56.5	51.9	49.4	49.0
127.5°	188.6	148.8	118.3	95.5	77.8	65.4	56.5	51.5	49.0	48.7
130°	186.5	149.2	119.3	97.0	78.9	65.7	56.8	51.5	49.0	48.7
132.5°	183.3	148.8	120.1	98.0	79.9	66.4	57.2	51.5	49.0	48.7
135°	180.1	147.8	120.4	98.7	80.6	67.1	57.5	51.5	49.0	48.7
137.5°	175.5	146.0	120.4	99.1	81.0	67.5	57.9	51.9	49.4	49.0
140°	170.5	143.1	119.0	99.1	81.3	68.2	58.6	52.6	49.7	49.4
142.5°	164.8	140.3	117.9	98.4	81.3	68.6	59.0	52.9	50.1	50.1
145°	158.8	136.7	115.8	98.0	81.3	68.9	59.7	53.6	50.8	50.8
147.5°	152.7	132.8	113.7	97.0	81.3	69.3	60.4	54.7	51.9	51.5
150°	146.0	127.9	110.5	94.8	80.6	69.3	60.7	55.4	52.6	52.2
152.5°	138.5	122.5	107.3	93.1	79.6	69.3	61.4	56.1	53.6	53.6
155°	131.1	116.9	103.4	90.6	78.9	69.6	62.5	57.5	55.1	55.1
157.5°	123.3	111.5	99.5	88.1	77.8	69.6	63.2	59.0	56.8	56.5
160°	115.8	105.8	95.5	85.2	76.7	69.6	63.9	60.0	58.3	57.9
162.5°	108.0	99.5	90.9	82.4	74.9	68.9	64.3	61.1	59.3	59.3
165°	100.2	93.4	85.6	79.2	73.2	68.6	64.6	61.8	60.4	60.4
167.5°	93.8	87.7	81.7	76.4	72.1	68.2	65.0	62.9	61.8	61.8
170°	87.4	82.8	78.5	74.6	71.0	67.8	65.7	64.3	63.2	63.2
172.5°	82.4	79.2	76.0	73.2	70.7	68.6	66.8	65.7	65.0	65.0
175°	78.9	76.7	74.9	72.8	71.4	70.0	68.9	68.2	67.8	68.2
177.5°	77.1	76.0	74.9	73.9	73.5	72.8	72.1	71.7	71.7	72.1
180°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7

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