

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: P253719

Luminaire Tested: **ULA-A9-D-U-SYM-VMx-7027-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253719
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-A9-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: 7812.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U5 - G3

Input Watts (W): 73.4
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



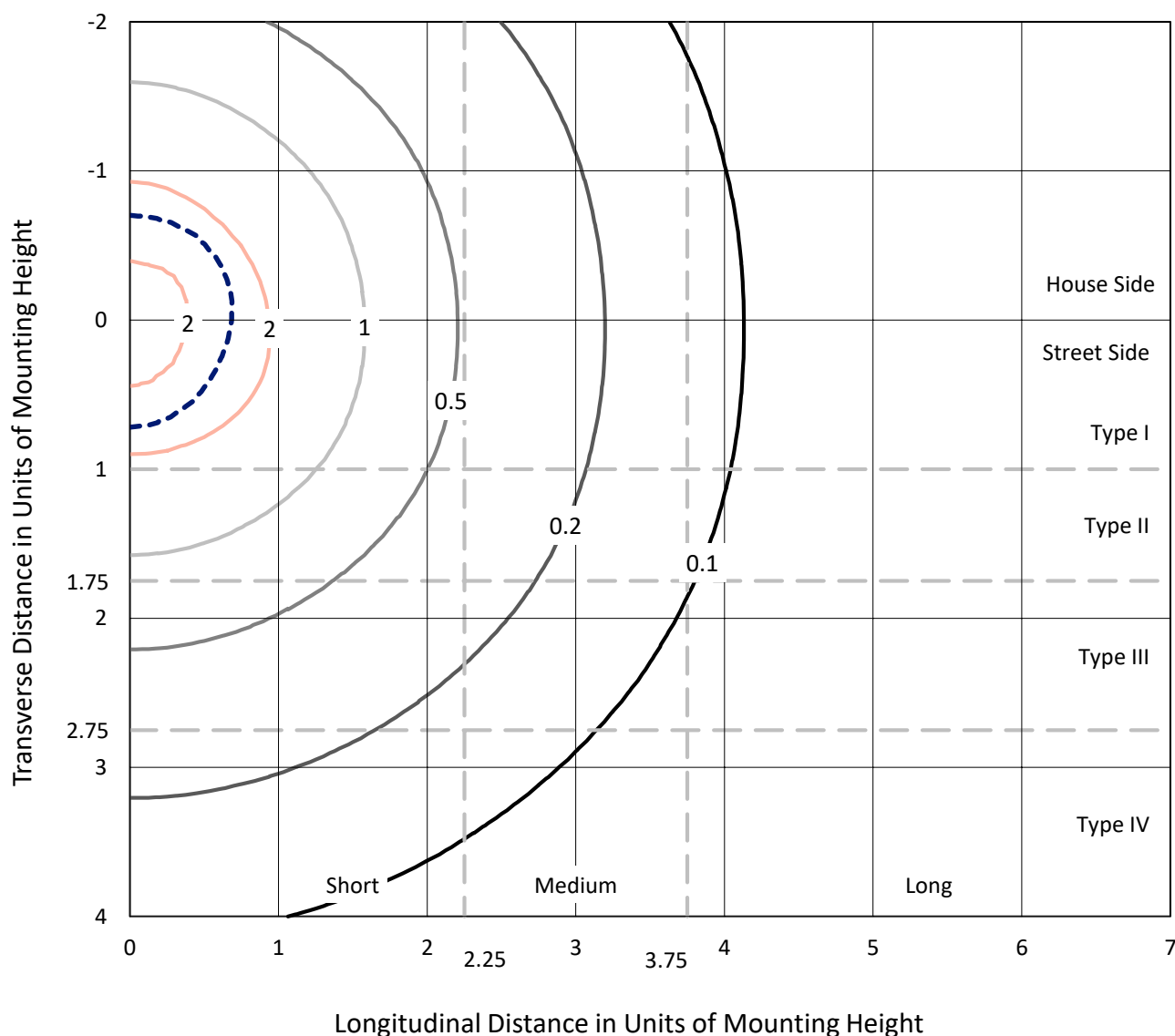
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

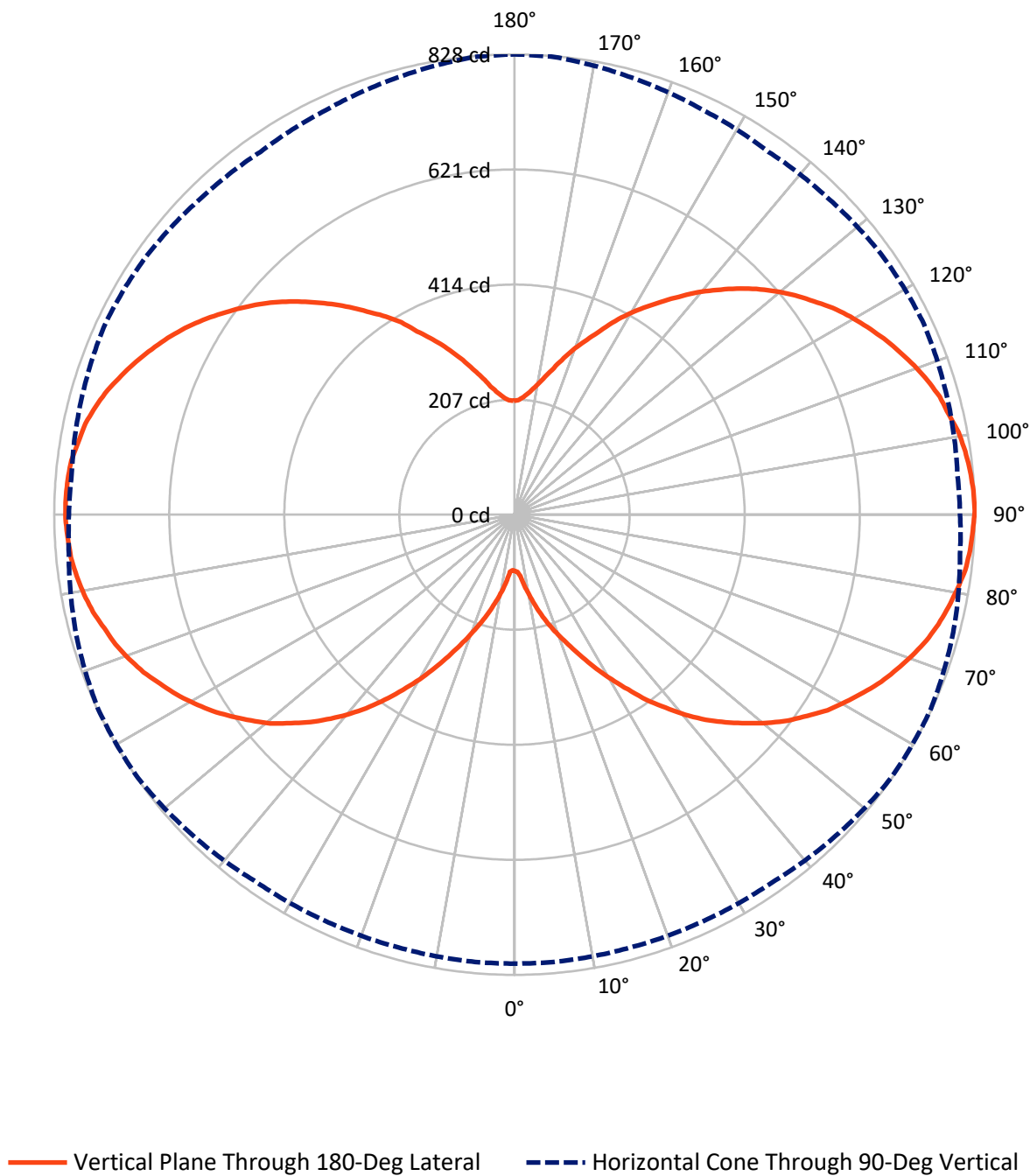


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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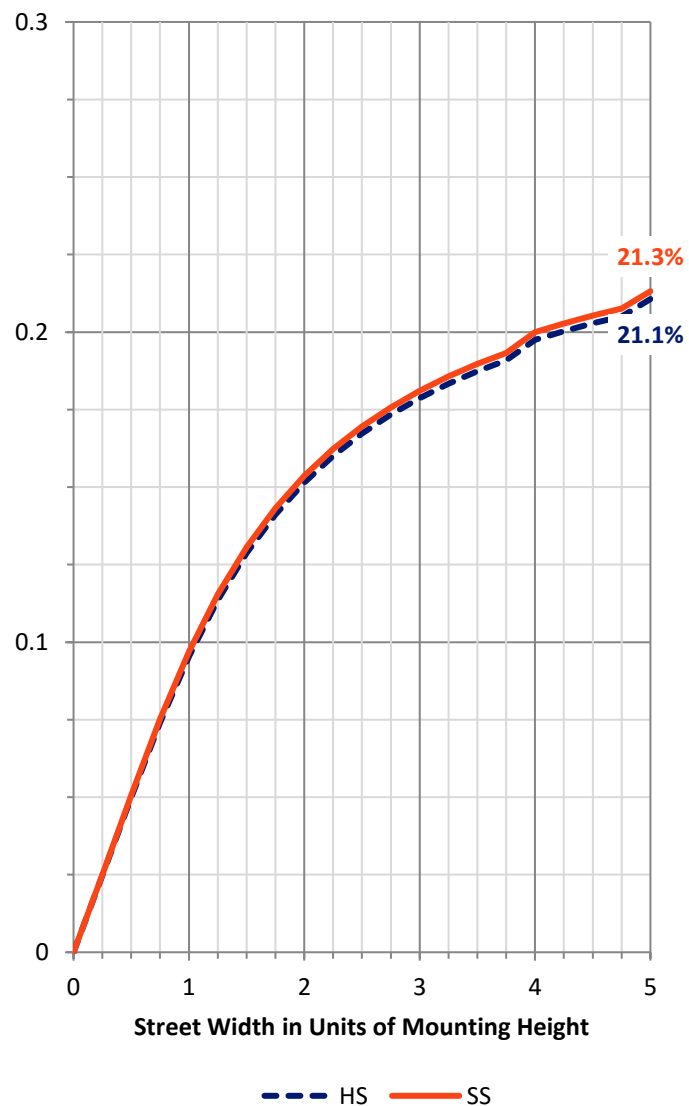
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.6	1980.8	3885.4
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	1930.3	1997.1	3927.5
	% Fixture	24.7	25.6	50.3
Total	Lumens	3834.9	3978.0	7812.8
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.1
10°-20°	54.3	0.7
20°-30°	134.1	1.7
30°-40°	259.7	3.3
40°-50°	412.4	5.3
50°-60°	566.5	7.3
60°-70°	705.1	9.0
70°-80°	814.3	10.4
80°-90°	876.9	11.2
90°-100°	881.1	11.3
100°-110°	823.1	10.5
110°-120°	715.2	9.2
120°-130°	579.4	7.4
130°-140°	430.2	5.5
140°-150°	285.7	3.7
150°-160°	165.0	2.1
160°-170°	77.3	1.0
170°-180°	20.9	0.3
0°-90°	3834.9	49.1
0°-180°	7812.8	100.0

Coefficient of Utilization



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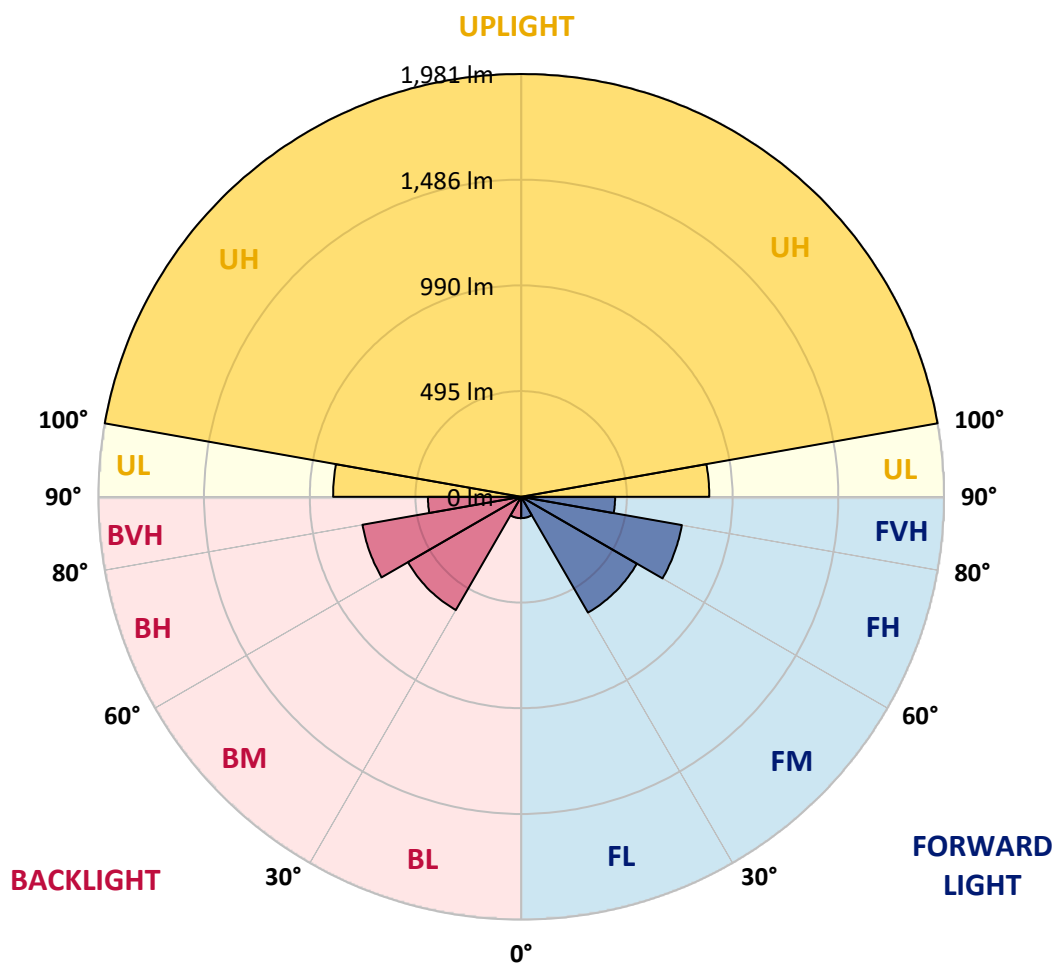
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.7	1.3			
FM	(30°-60°)	626.1	8.0			
FH	(60°-80°)	764.4	9.8			G1/1800
FVH	(80°-90°)	440.1	5.6			G3/500
BL	(0°-30°)	100.2	1.3	B0/110		
BM	(30°-60°)	612.5	7.8	B1/1000		
BH	(60°-80°)	755.0	9.7	B2/1000		G1/1800
BVH	(80°-90°)	436.8	5.6			G3/500
UL	(90°-100°)	881.1	11.3		U4/1000	
UH	(100°-180°)	1980.8	25.4		U5	

BUG Rating: B2-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
2.5°	100.0	100.0	100.0	98.5	98.5	98.5	98.5	98.5	98.5	100.0	100.0
5°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	104.7	106.3	106.3	107.9
7.5°	121.9	120.4	120.4	120.4	120.4	120.4	120.4	121.9	123.5	125.0	125.0
10°	140.7	139.1	139.1	140.7	140.7	142.2	140.7	143.8	143.8	145.4	146.9
12.5°	159.4	157.9	159.4	161.0	162.6	162.6	164.1	165.7	165.7	167.3	167.3
15°	179.8	178.2	179.8	181.3	182.9	184.4	186.0	187.6	189.1	189.1	187.6
17.5°	201.6	200.1	201.6	203.2	204.8	206.3	209.5	211.0	211.0	211.0	211.0
20°	223.5	222.0	223.5	226.7	228.2	229.8	234.5	236.0	234.5	234.5	232.9
22.5°	248.5	247.0	248.5	251.7	256.4	257.9	261.0	262.6	261.0	261.0	259.5
25°	275.1	275.1	276.7	279.8	284.5	287.6	292.3	293.9	290.7	290.7	289.2
27.5°	304.8	304.8	306.4	311.1	314.2	318.9	325.1	325.1	323.6	322.0	320.4
30°	336.1	334.5	337.6	342.3	347.0	351.7	358.0	361.1	359.5	354.8	351.7
32.5°	367.3	365.8	368.9	375.1	381.4	386.1	392.3	393.9	392.3	387.7	384.5
35°	400.2	401.7	403.3	408.0	415.8	420.5	426.7	428.3	425.2	422.0	417.4
37.5°	433.0	433.0	436.1	440.8	448.6	453.3	459.6	461.1	459.6	453.3	450.2
40°	464.2	464.2	467.4	472.1	478.3	484.6	490.8	493.9	489.3	484.6	479.9
42.5°	493.9	493.9	497.1	500.2	506.4	514.3	520.5	523.6	520.5	512.7	508.0
45°	523.6	523.6	526.8	529.9	536.1	542.4	550.2	551.8	547.1	539.3	536.1
47.5°	550.2	550.2	553.3	556.5	562.7	570.5	576.8	578.4	573.7	565.8	561.2
50°	578.4	576.8	579.9	583.0	589.3	597.1	603.4	603.4	598.7	589.3	584.6
52.5°	601.8	603.4	603.4	606.5	612.7	619.0	626.8	628.4	622.1	611.2	608.0
55°	625.2	626.8	626.8	628.4	634.6	642.4	651.8	650.3	644.0	634.6	628.4
57.5°	648.7	648.7	650.3	650.3	654.9	664.3	673.7	672.1	665.9	654.9	650.3
60°	669.0	669.0	669.0	672.1	675.3	683.1	692.5	694.0	684.6	673.7	669.0
62.5°	689.3	689.3	689.3	690.9	694.0	701.8	712.8	712.8	701.8	690.9	686.2
65°	706.5	708.1	708.1	708.1	712.8	722.2	730.0	730.0	722.2	708.1	705.0
67.5°	725.3	725.3	723.7	723.7	728.4	736.2	747.2	747.2	737.8	723.7	720.6
70°	740.9	740.9	739.4	739.4	744.0	753.4	764.4	762.8	751.9	740.9	736.2
72.5°	755.0	756.5	753.4	753.4	758.1	767.5	778.4	776.9	765.9	753.4	750.3
75°	765.9	769.1	765.9	764.4	769.1	778.4	789.4	789.4	778.4	764.4	761.2
77.5°	778.4	780.0	776.9	776.9	780.0	790.9	800.3	800.3	790.9	776.9	772.2
80°	787.8	789.4	787.8	786.2	789.4	798.7	809.7	809.7	800.3	786.2	781.6
82.5°	795.6	795.6	794.1	794.1	797.2	806.6	815.9	815.9	806.6	794.1	790.9
85°	801.9	803.4	801.9	800.3	803.4	812.8	822.2	822.2	812.8	798.7	795.6
87.5°	805.0	806.6	805.0	805.0	806.6	815.9	825.3	823.8	815.9	801.9	798.7
90°	808.1	808.1	806.6	806.6	808.1	817.5	826.9	826.9	817.5	805.0	801.9
92.5°	808.1	809.7	808.1	808.1	809.7	815.9	825.3	826.9	817.5	805.0	801.9
95°	806.6	806.6	806.6	805.0	806.6	814.4	823.8	823.8	815.9	801.9	798.7
97.5°	803.4	803.4	801.9	801.9	803.4	811.3	819.1	819.1	811.3	798.7	795.6
100°	795.6	797.2	797.2	795.6	797.2	803.4	812.8	812.8	803.4	792.5	789.4
102.5°	789.4	787.8	787.8	787.8	787.8	794.1	803.4	801.9	794.1	783.1	780.0
105°	778.4	778.4	776.9	776.9	778.4	784.7	794.1	792.5	783.1	772.2	769.1
107.5°	765.9	765.9	764.4	764.4	765.9	772.2	781.6	780.0	770.6	759.7	756.5
110°	750.3	750.3	748.7	747.2	751.9	758.1	767.5	765.9	756.5	745.6	742.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	734.7	734.7	734.7	733.1	737.8	744.0	751.9	750.3	740.9	730.0	728.4
115°	717.5	717.5	715.9	715.9	722.2	728.4	736.2	733.1	723.7	714.3	711.2
117.5°	700.3	700.3	697.1	697.1	703.4	711.2	719.0	715.9	706.5	697.1	694.0
120°	681.5	681.5	678.4	678.4	686.2	694.0	701.8	698.7	689.3	678.4	676.8
122.5°	661.2	661.2	658.1	659.6	667.4	675.3	683.1	680.0	670.6	661.2	658.1
125°	639.3	639.3	637.7	639.3	647.1	654.9	662.8	659.6	650.3	642.4	637.7
127.5°	617.4	617.4	617.4	619.0	626.8	634.6	642.4	637.7	629.9	620.6	619.0
130°	595.5	595.5	594.0	597.1	604.9	612.7	619.0	617.4	608.0	600.2	597.1
132.5°	572.1	572.1	572.1	573.7	581.5	589.3	597.1	594.0	586.2	576.8	573.7
135°	547.1	547.1	548.7	550.2	558.0	565.8	572.1	569.0	562.7	553.3	548.7
137.5°	522.1	523.6	523.6	526.8	533.0	540.8	545.5	544.0	536.1	528.3	525.2
140°	497.1	497.1	498.6	501.8	508.0	514.3	517.4	515.8	511.1	503.3	498.6
142.5°	472.1	472.1	473.6	476.7	481.4	486.1	490.8	489.3	484.6	478.3	473.6
145°	447.0	447.0	448.6	451.7	456.4	459.6	464.2	462.7	458.0	451.7	447.0
147.5°	425.2	423.6	425.2	428.3	433.0	434.5	437.7	437.7	433.0	426.7	423.6
150°	401.7	401.7	403.3	404.8	408.0	411.1	412.7	412.7	408.0	401.7	398.6
152.5°	373.6	373.6	375.1	379.8	381.4	386.1	387.7	384.5	381.4	373.6	372.0
155°	351.7	351.7	351.7	354.8	356.4	358.0	359.5	358.0	354.8	350.1	348.6
157.5°	331.4	329.8	329.8	332.9	334.5	334.5	336.1	334.5	332.9	328.3	326.7
160°	309.5	309.5	309.5	311.1	311.1	314.2	314.2	312.6	309.5	307.9	304.8
162.5°	289.2	289.2	289.2	289.2	290.7	290.7	290.7	289.2	287.6	286.0	284.5
165°	268.9	268.9	268.9	268.9	268.9	270.4	270.4	268.9	267.3	265.7	265.7
167.5°	251.7	251.7	250.1	250.1	251.7	251.7	251.7	250.1	250.1	248.5	248.5
170°	234.5	236.0	236.0	234.5	234.5	234.5	234.5	234.5	234.5	232.9	232.9
172.5°	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	220.4	220.4
175°	212.6	212.6	212.6	211.0	212.6	212.6	212.6	211.0	211.0	211.0	211.0
177.5°	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3
180°	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
2.5°	100.0	100.0	101.6	101.6	103.2	103.2	103.2	103.2	103.2	103.2
5°	107.9	107.9	109.4	109.4	109.4	111.0	111.0	111.0	111.0	111.0
7.5°	126.6	128.2	129.7	128.2	128.2	129.7	128.2	128.2	129.7	129.7
10°	145.4	146.9	148.5	148.5	148.5	148.5	148.5	148.5	148.5	146.9
12.5°	167.3	167.3	167.3	168.8	168.8	168.8	168.8	168.8	170.4	168.8
15°	187.6	187.6	187.6	189.1	189.1	189.1	189.1	190.7	192.3	190.7
17.5°	209.5	209.5	209.5	209.5	209.5	209.5	211.0	212.6	214.1	212.6
20°	232.9	232.9	231.3	231.3	231.3	231.3	232.9	234.5	234.5	234.5
22.5°	259.5	256.4	256.4	254.8	254.8	256.4	257.9	259.5	259.5	257.9
25°	287.6	284.5	281.4	282.9	281.4	282.9	284.5	286.0	286.0	284.5
27.5°	317.3	314.2	311.1	311.1	309.5	311.1	311.1	314.2	315.7	314.2
30°	348.6	345.4	340.8	340.8	339.2	339.2	342.3	343.9	345.4	343.9
32.5°	381.4	375.1	373.6	372.0	368.9	368.9	372.0	373.6	376.7	375.1
35°	415.8	411.1	404.8	401.7	401.7	403.3	404.8	406.4	411.1	409.5
37.5°	447.0	440.8	436.1	433.0	433.0	433.0	437.7	439.2	442.4	440.8
40°	476.7	470.5	465.8	462.7	462.7	462.7	467.4	468.9	473.6	473.6
42.5°	504.9	498.6	497.1	492.4	490.8	492.4	495.5	500.2	504.9	504.9
45°	531.5	526.8	523.6	520.5	519.0	520.5	523.6	529.9	534.6	533.0
47.5°	558.0	553.3	550.2	547.1	545.5	545.5	550.2	556.5	562.7	561.2
50°	583.0	578.4	575.2	573.7	572.1	572.1	576.8	583.0	590.9	589.3
52.5°	604.9	601.8	600.2	598.7	595.5	595.5	600.2	608.0	614.3	615.9
55°	626.8	623.7	623.7	620.6	619.0	619.0	623.7	631.5	637.7	639.3
57.5°	648.7	645.6	647.1	644.0	640.9	639.3	645.6	654.9	661.2	664.3
60°	667.4	665.9	665.9	664.3	661.2	659.6	665.9	675.3	683.1	684.6
62.5°	686.2	684.6	686.2	684.6	680.0	678.4	684.6	694.0	703.4	705.0
65°	703.4	701.8	706.5	703.4	698.7	697.1	703.4	714.3	723.7	725.3
67.5°	719.0	719.0	722.2	720.6	714.3	712.8	719.0	730.0	740.9	742.5
70°	734.7	736.2	740.9	737.8	731.5	730.0	734.7	747.2	758.1	759.7
72.5°	747.2	750.3	756.5	753.4	745.6	742.5	750.3	762.8	773.7	775.3
75°	761.2	762.8	767.5	765.9	759.7	755.0	762.8	775.3	786.2	787.8
77.5°	772.2	775.3	781.6	778.4	770.6	767.5	775.3	787.8	798.7	798.7
80°	781.6	786.2	790.9	789.4	781.6	776.9	784.7	797.2	808.1	808.1
82.5°	789.4	794.1	798.7	797.2	789.4	784.7	790.9	803.4	815.9	817.5
85°	795.6	800.3	806.6	805.0	795.6	790.9	797.2	811.3	820.6	822.2
87.5°	797.2	803.4	811.3	806.6	800.3	794.1	801.9	812.8	823.8	825.3
90°	800.3	806.6	812.8	809.7	801.9	797.2	803.4	814.4	826.9	828.4
92.5°	800.3	806.6	812.8	811.3	803.4	797.2	803.4	815.9	825.3	826.9
95°	798.7	805.0	811.3	809.7	800.3	795.6	801.9	812.8	823.8	823.8
97.5°	794.1	800.3	806.6	805.0	797.2	790.9	797.2	808.1	819.1	819.1
100°	787.8	794.1	801.9	800.3	790.9	786.2	790.9	803.4	812.8	812.8
102.5°	778.4	784.7	792.5	790.9	783.1	776.9	781.6	794.1	801.9	801.9
105°	769.1	773.7	781.6	780.0	772.2	765.9	772.2	783.1	792.5	794.1
107.5°	756.5	761.2	769.1	769.1	761.2	755.0	759.7	772.2	780.0	781.6
110°	742.5	747.2	753.4	753.4	747.2	740.9	745.6	756.5	767.5	767.5



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CATALOG NUMBER: ULA-A9-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	726.8	731.5	737.8	737.8	730.0	725.3	730.0	742.5	751.9	751.9
115°	711.2	714.3	720.6	720.6	714.3	709.7	715.9	726.8	736.2	736.2
117.5°	694.0	697.1	701.8	703.4	697.1	692.5	698.7	708.1	719.0	719.0
120°	675.3	678.4	683.1	683.1	678.4	675.3	680.0	690.9	700.3	701.8
122.5°	658.1	659.6	662.8	662.8	658.1	656.5	661.2	673.7	681.5	683.1
125°	637.7	637.7	642.4	640.9	637.7	636.2	642.4	651.8	661.2	661.2
127.5°	617.4	617.4	619.0	619.0	615.9	614.3	622.1	631.5	639.3	640.9
130°	595.5	594.0	595.5	595.5	594.0	594.0	600.2	609.6	617.4	619.0
132.5°	572.1	570.5	570.5	570.5	570.5	570.5	576.8	586.2	594.0	595.5
135°	547.1	545.5	545.5	545.5	544.0	547.1	553.3	561.2	569.0	570.5
137.5°	523.6	520.5	520.5	519.0	520.5	523.6	528.3	536.1	544.0	544.0
140°	497.1	492.4	492.4	492.4	495.5	498.6	503.3	511.1	517.4	519.0
142.5°	472.1	467.4	465.8	467.4	468.9	472.1	478.3	486.1	490.8	490.8
145°	445.5	440.8	439.2	440.8	443.9	448.6	453.3	459.6	464.2	464.2
147.5°	422.0	417.4	415.8	415.8	420.5	425.2	429.9	436.1	439.2	439.2
150°	397.0	392.3	390.8	392.3	397.0	400.2	406.4	411.1	414.2	414.2
152.5°	370.5	365.8	364.2	365.8	368.9	373.6	379.8	384.5	389.2	387.7
155°	347.0	342.3	340.8	342.3	345.4	350.1	353.3	358.0	361.1	359.5
157.5°	325.1	322.0	320.4	322.0	325.1	328.3	331.4	334.5	337.6	336.1
160°	304.8	301.7	301.7	301.7	303.2	307.9	309.5	312.6	314.2	314.2
162.5°	284.5	281.4	281.4	282.9	284.5	287.6	289.2	290.7	290.7	290.7
165°	265.7	262.6	262.6	264.2	264.2	267.3	267.3	268.9	270.4	268.9
167.5°	248.5	247.0	245.4	247.0	248.5	250.1	250.1	250.1	251.7	250.1
170°	232.9	232.9	231.3	231.3	232.9	234.5	234.5	234.5	234.5	234.5
172.5°	220.4	220.4	220.4	220.4	222.0	222.0	222.0	222.0	222.0	222.0
175°	211.0	211.0	211.0	211.0	212.6	212.6	212.6	212.6	212.6	212.6
177.5°	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3
180°	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8

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