

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: P256826

Luminaire Tested: **ULA-A7-D-U-SYM-VMx-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256826
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-A7-D-U-SYM-VMx-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (90) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7032 lumens
Efficiency: N/A
Efficacy: 128.3 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): 54.8
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



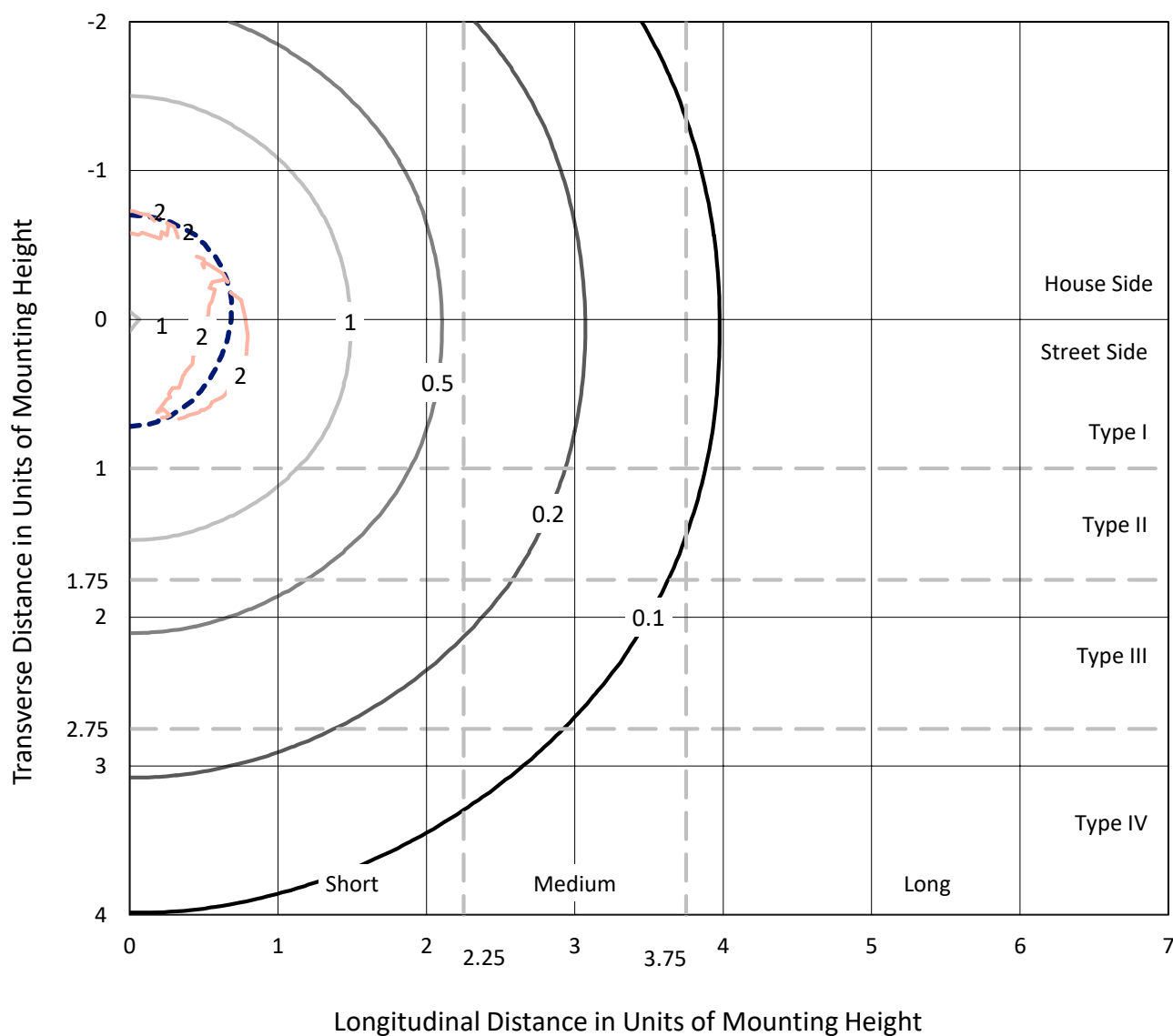
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

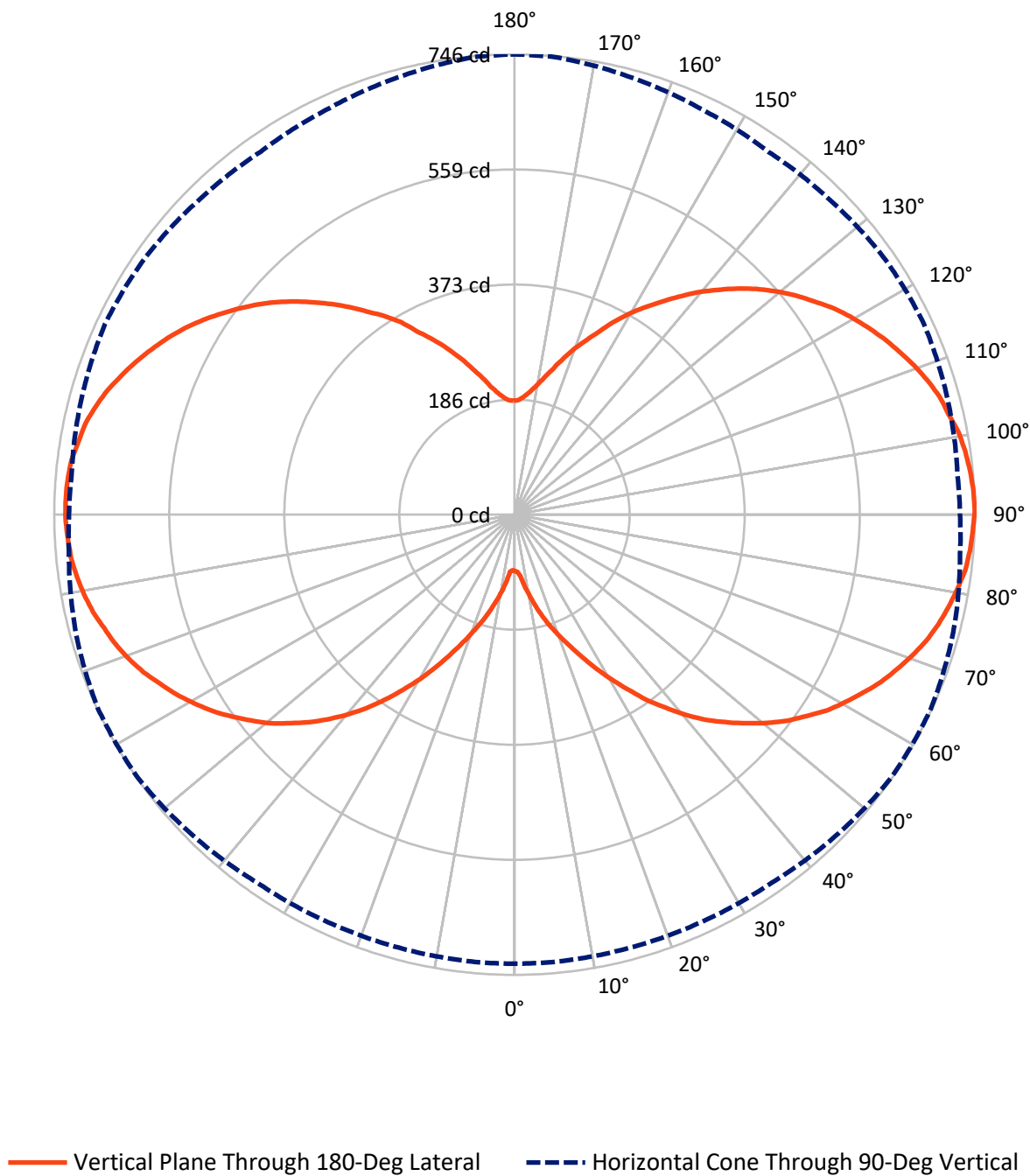


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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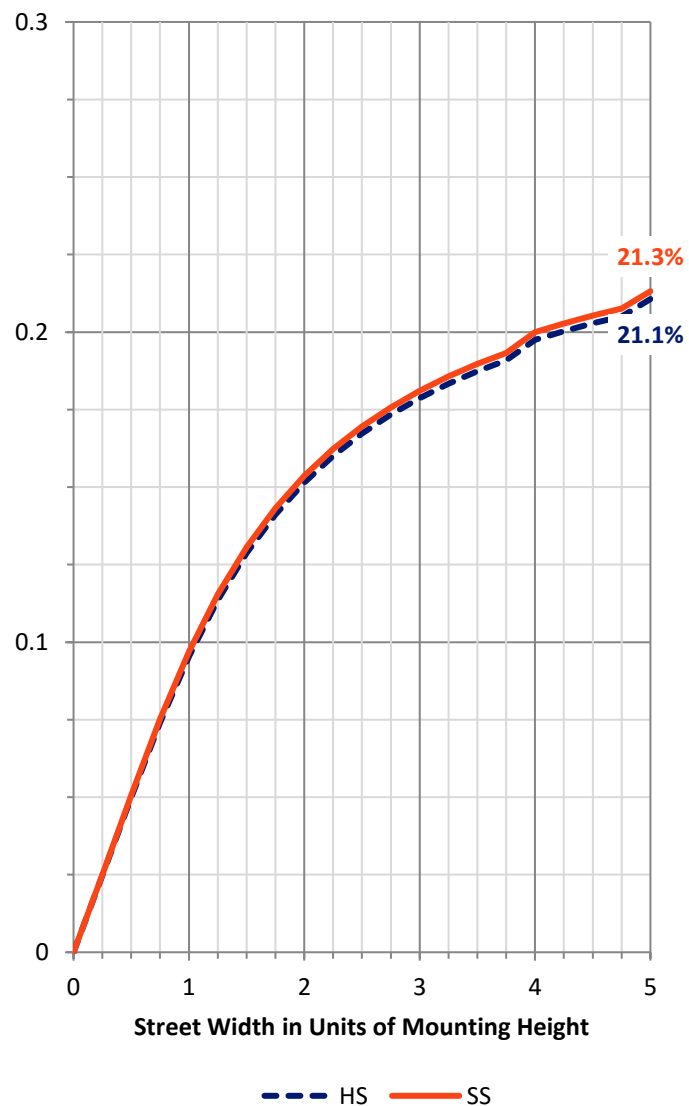
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1714.2	1782.9	3497.1
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	1737.4	1797.5	3534.9
	% Fixture	24.7	25.6	50.3
Total	Lumens	3451.6	3580.4	7032.0
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.1
10°-20°	48.9	0.7
20°-30°	120.7	1.7
30°-40°	233.8	3.3
40°-50°	371.2	5.3
50°-60°	509.9	7.3
60°-70°	634.6	9.0
70°-80°	732.9	10.4
80°-90°	789.3	11.2
90°-100°	793.0	11.3
100°-110°	740.9	10.5
110°-120°	643.7	9.2
120°-130°	521.5	7.4
130°-140°	387.2	5.5
140°-150°	257.1	3.7
150°-160°	148.5	2.1
160°-170°	69.6	1.0
170°-180°	18.8	0.3
0°-90°	3451.6	49.1
0°-180°	7032.0	100.0

Coefficient of Utilization



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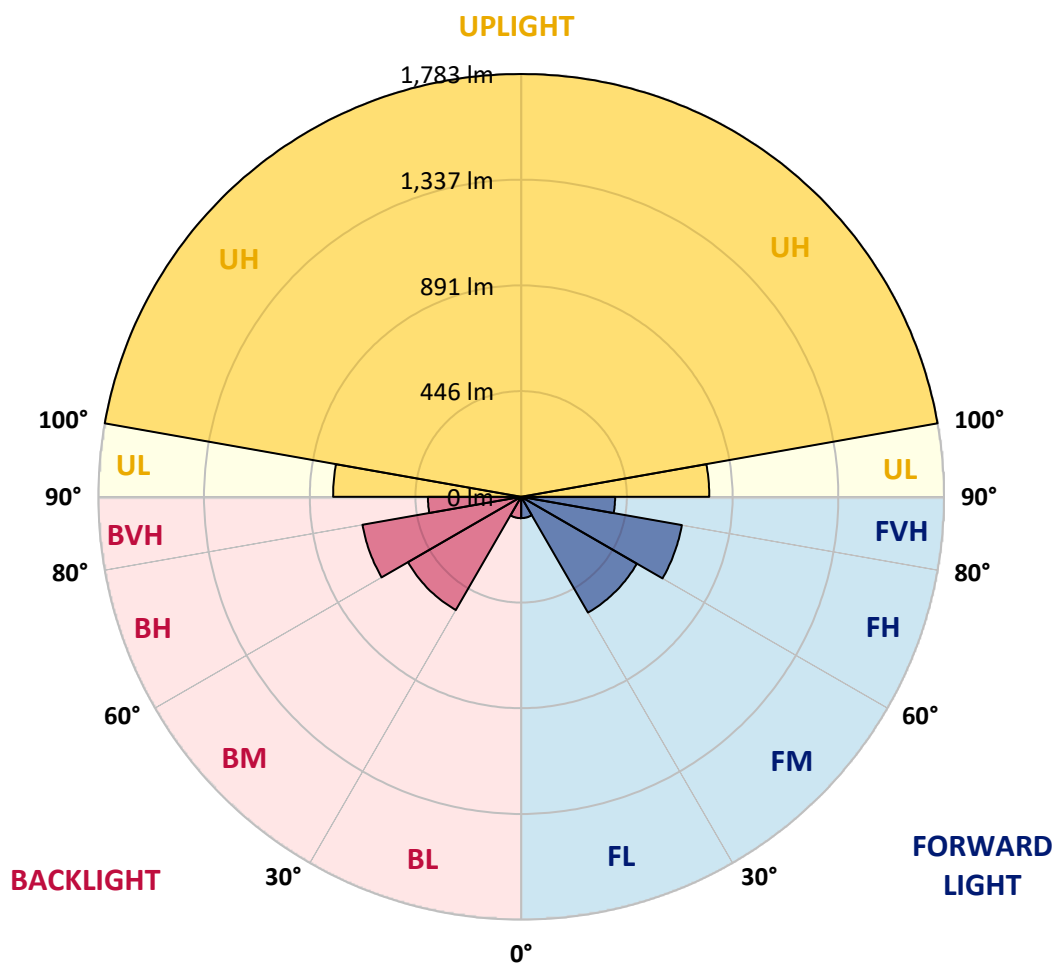
CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.8	1.3			
FM	(30°-60°)	563.5	8.0			
FH	(60°-80°)	688.0	9.8			G1/1800
FVH	(80°-90°)	396.1	5.6			G3/500
BL	(0°-30°)	90.2	1.3	B0/110		
BM	(30°-60°)	551.3	7.8	B1/1000		
BH	(60°-80°)	679.5	9.7	B2/1000		G1/1800
BVH	(80°-90°)	393.2	5.6			G3/500
UL	(90°-100°)	793.0	11.3		U4/1000	
UH	(100°-180°)	1782.9	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°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
2.5°	90.0	90.0	90.0	88.6	88.6	88.6	88.6	88.6	88.6	90.0	90.0
5°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	94.3	95.7	95.7	97.1
7.5°	109.7	108.3	108.3	108.3	108.3	108.3	108.3	109.7	111.1	112.6	112.6
10°	126.6	125.2	125.2	126.6	126.6	128.0	126.6	129.4	129.4	130.8	132.2
12.5°	143.5	142.1	143.5	144.9	146.3	146.3	147.7	149.1	149.1	150.5	150.5
15°	161.8	160.4	161.8	163.2	164.6	166.0	167.4	168.8	170.2	170.2	168.8
17.5°	181.5	180.1	181.5	182.9	184.3	185.7	188.5	189.9	189.9	189.9	189.9
20°	201.2	199.8	201.2	204.0	205.4	206.8	211.0	212.4	211.0	211.0	209.6
22.5°	223.7	222.3	223.7	226.5	230.7	232.1	235.0	236.4	235.0	235.0	233.5
25°	247.6	247.6	249.0	251.8	256.1	258.9	263.1	264.5	261.7	261.7	260.3
27.5°	274.3	274.3	275.7	280.0	282.8	287.0	292.6	292.6	291.2	289.8	288.4
30°	302.5	301.1	303.9	308.1	312.3	316.5	322.2	325.0	323.6	319.4	316.5
32.5°	330.6	329.2	332.0	337.7	343.3	347.5	353.1	354.5	353.1	348.9	346.1
35°	360.2	361.6	363.0	367.2	374.2	378.5	384.1	385.5	382.7	379.9	375.6
37.5°	389.7	389.7	392.5	396.7	403.8	408.0	413.6	415.0	413.6	408.0	405.2
40°	417.8	417.8	420.7	424.9	430.5	436.1	441.8	444.6	440.4	436.1	431.9
42.5°	444.6	444.6	447.4	450.2	455.8	462.9	468.5	471.3	468.5	461.5	457.2
45°	471.3	471.3	474.1	476.9	482.6	488.2	495.2	496.6	492.4	485.4	482.6
47.5°	495.2	495.2	498.0	500.9	506.5	513.5	519.1	520.5	516.3	509.3	505.1
50°	520.5	519.1	522.0	524.8	530.4	537.4	543.1	543.1	538.8	530.4	526.2
52.5°	541.7	543.1	543.1	545.9	551.5	557.1	564.2	565.6	559.9	550.1	547.3
55°	562.8	564.2	564.2	565.6	571.2	578.2	586.7	585.3	579.6	571.2	565.6
57.5°	583.9	583.9	585.3	585.3	589.5	597.9	606.4	605.0	599.3	589.5	585.3
60°	602.1	602.1	602.1	605.0	607.8	614.8	623.3	624.7	616.2	606.4	602.1
62.5°	620.4	620.4	620.4	621.8	624.7	631.7	641.5	641.5	631.7	621.8	617.6
65°	635.9	637.3	637.3	637.3	641.5	650.0	657.0	657.0	650.0	637.3	634.5
67.5°	652.8	652.8	651.4	651.4	655.6	662.6	672.5	672.5	664.1	651.4	648.6
70°	666.9	666.9	665.5	665.5	669.7	678.1	688.0	686.6	676.7	666.9	662.6
72.5°	679.5	680.9	678.1	678.1	682.3	690.8	700.6	699.2	689.4	678.1	675.3
75°	689.4	692.2	689.4	688.0	692.2	700.6	710.5	710.5	700.6	688.0	685.2
77.5°	700.6	702.0	699.2	699.2	702.0	711.9	720.3	720.3	711.9	699.2	695.0
80°	709.1	710.5	709.1	707.7	710.5	718.9	728.8	728.8	720.3	707.7	703.4
82.5°	716.1	716.1	714.7	714.7	717.5	726.0	734.4	734.4	726.0	714.7	711.9
85°	721.7	723.1	721.7	720.3	723.1	731.6	740.0	740.0	731.6	718.9	716.1
87.5°	724.5	726.0	724.5	724.5	726.0	734.4	742.8	741.4	734.4	721.7	718.9
90°	727.4	727.4	726.0	726.0	727.4	735.8	744.2	744.2	735.8	724.5	721.7
92.5°	727.4	728.8	727.4	727.4	728.8	734.4	742.8	744.2	735.8	724.5	721.7
95°	726.0	726.0	726.0	724.5	726.0	733.0	741.4	741.4	734.4	721.7	718.9
97.5°	723.1	723.1	721.7	721.7	723.1	730.2	737.2	737.2	730.2	718.9	716.1
100°	716.1	717.5	717.5	716.1	717.5	723.1	731.6	731.6	723.1	713.3	710.5
102.5°	710.5	709.1	709.1	709.1	709.1	714.7	723.1	721.7	714.7	704.9	702.0
105°	700.6	700.6	699.2	699.2	700.6	706.3	714.7	713.3	704.9	695.0	692.2
107.5°	689.4	689.4	688.0	688.0	689.4	695.0	703.4	702.0	693.6	683.7	680.9
110°	675.3	675.3	673.9	672.5	676.7	682.3	690.8	689.4	680.9	671.1	668.3



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CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	661.2	661.2	661.2	659.8	664.1	669.7	676.7	675.3	666.9	657.0	655.6
115°	645.8	645.8	644.4	644.4	650.0	655.6	662.6	659.8	651.4	642.9	640.1
117.5°	630.3	630.3	627.5	627.5	633.1	640.1	647.2	644.4	635.9	627.5	624.7
120°	613.4	613.4	610.6	610.6	617.6	624.7	631.7	628.9	620.4	610.6	609.2
122.5°	595.1	595.1	592.3	593.7	600.7	607.8	614.8	612.0	603.6	595.1	592.3
125°	575.4	575.4	574.0	575.4	582.5	589.5	596.5	593.7	585.3	578.2	574.0
127.5°	555.7	555.7	555.7	557.1	564.2	571.2	578.2	574.0	567.0	558.5	557.1
130°	536.0	536.0	534.6	537.4	544.5	551.5	557.1	555.7	547.3	540.2	537.4
132.5°	514.9	514.9	514.9	516.3	523.4	530.4	537.4	534.6	527.6	519.1	516.3
135°	492.4	492.4	493.8	495.2	502.3	509.3	514.9	512.1	506.5	498.0	493.8
137.5°	469.9	471.3	471.3	474.1	479.7	486.8	491.0	489.6	482.6	475.5	472.7
140°	447.4	447.4	448.8	451.6	457.2	462.9	465.7	464.3	460.1	453.0	448.8
142.5°	424.9	424.9	426.3	429.1	433.3	437.5	441.8	440.4	436.1	430.5	426.3
145°	402.4	402.4	403.8	406.6	410.8	413.6	417.8	416.4	412.2	406.6	402.4
147.5°	382.7	381.3	382.7	385.5	389.7	391.1	393.9	393.9	389.7	384.1	381.3
150°	361.6	361.6	363.0	364.4	367.2	370.0	371.4	371.4	367.2	361.6	358.8
152.5°	336.2	336.2	337.7	341.9	343.3	347.5	348.9	346.1	343.3	336.2	334.8
155°	316.5	316.5	316.5	319.4	320.8	322.2	323.6	322.2	319.4	315.1	313.7
157.5°	298.3	296.9	296.9	299.7	301.1	301.1	302.5	301.1	299.7	295.4	294.0
160°	278.6	278.6	278.6	280.0	280.0	282.8	282.8	281.4	278.6	277.2	274.3
162.5°	260.3	260.3	260.3	260.3	261.7	261.7	261.7	260.3	258.9	257.5	256.1
165°	242.0	242.0	242.0	242.0	242.0	243.4	243.4	242.0	240.6	239.2	239.2
167.5°	226.5	226.5	225.1	225.1	226.5	226.5	226.5	225.1	225.1	223.7	223.7
170°	211.0	212.4	212.4	211.0	211.0	211.0	211.0	211.0	211.0	209.6	209.6
172.5°	199.8	199.8	199.8	199.8	199.8	199.8	199.8	199.8	199.8	198.4	198.4
175°	191.3	191.3	191.3	189.9	191.3	191.3	191.3	189.9	189.9	189.9	189.9
177.5°	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7
180°	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3



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CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
2.5°	90.0	90.0	91.4	91.4	92.9	92.9	92.9	92.9	92.9	92.9
5°	97.1	97.1	98.5	98.5	98.5	99.9	99.9	99.9	99.9	99.9
7.5°	114.0	115.4	116.8	115.4	115.4	116.8	115.4	115.4	116.8	116.8
10°	130.8	132.2	133.7	133.7	133.7	133.7	133.7	133.7	133.7	132.2
12.5°	150.5	150.5	150.5	151.9	151.9	151.9	151.9	151.9	153.4	151.9
15°	168.8	168.8	168.8	170.2	170.2	170.2	170.2	171.6	173.0	171.6
17.5°	188.5	188.5	188.5	188.5	188.5	188.5	189.9	191.3	192.7	191.3
20°	209.6	209.6	208.2	208.2	208.2	208.2	209.6	211.0	211.0	211.0
22.5°	233.5	230.7	230.7	229.3	229.3	230.7	232.1	233.5	233.5	232.1
25°	258.9	256.1	253.2	254.6	253.2	254.6	256.1	257.5	257.5	256.1
27.5°	285.6	282.8	280.0	280.0	278.6	280.0	280.0	282.8	284.2	282.8
30°	313.7	310.9	306.7	306.7	305.3	305.3	308.1	309.5	310.9	309.5
32.5°	343.3	337.7	336.2	334.8	332.0	332.0	334.8	336.2	339.1	337.7
35°	374.2	370.0	364.4	361.6	361.6	363.0	364.4	365.8	370.0	368.6
37.5°	402.4	396.7	392.5	389.7	389.7	389.7	393.9	395.3	398.1	396.7
40°	429.1	423.5	419.3	416.4	416.4	416.4	420.7	422.1	426.3	426.3
42.5°	454.4	448.8	447.4	443.2	441.8	443.2	446.0	450.2	454.4	454.4
45°	478.3	474.1	471.3	468.5	467.1	468.5	471.3	476.9	481.2	479.7
47.5°	502.3	498.0	495.2	492.4	491.0	491.0	495.2	500.9	506.5	505.1
50°	524.8	520.5	517.7	516.3	514.9	514.9	519.1	524.8	531.8	530.4
52.5°	544.5	541.7	540.2	538.8	536.0	536.0	540.2	547.3	552.9	554.3
55°	564.2	561.3	561.3	558.5	557.1	557.1	561.3	568.4	574.0	575.4
57.5°	583.9	581.0	582.5	579.6	576.8	575.4	581.0	589.5	595.1	597.9
60°	600.7	599.3	599.3	597.9	595.1	593.7	599.3	607.8	614.8	616.2
62.5°	617.6	616.2	617.6	616.2	612.0	610.6	616.2	624.7	633.1	634.5
65°	633.1	631.7	635.9	633.1	628.9	627.5	633.1	642.9	651.4	652.8
67.5°	647.2	647.2	650.0	648.6	642.9	641.5	647.2	657.0	666.9	668.3
70°	661.2	662.6	666.9	664.1	658.4	657.0	661.2	672.5	682.3	683.7
72.5°	672.5	675.3	680.9	678.1	671.1	668.3	675.3	686.6	696.4	697.8
75°	685.2	686.6	690.8	689.4	683.7	679.5	686.6	697.8	707.7	709.1
77.5°	695.0	697.8	703.4	700.6	693.6	690.8	697.8	709.1	718.9	718.9
80°	703.4	707.7	711.9	710.5	703.4	699.2	706.3	717.5	727.4	727.4
82.5°	710.5	714.7	718.9	717.5	710.5	706.3	711.9	723.1	734.4	735.8
85°	716.1	720.3	726.0	724.5	716.1	711.9	717.5	730.2	738.6	740.0
87.5°	717.5	723.1	730.2	726.0	720.3	714.7	721.7	731.6	741.4	742.8
90°	720.3	726.0	731.6	728.8	721.7	717.5	723.1	733.0	744.2	745.6
92.5°	720.3	726.0	731.6	730.2	723.1	717.5	723.1	734.4	742.8	744.2
95°	718.9	724.5	730.2	728.8	720.3	716.1	721.7	731.6	741.4	741.4
97.5°	714.7	720.3	726.0	724.5	717.5	711.9	717.5	727.4	737.2	737.2
100°	709.1	714.7	721.7	720.3	711.9	707.7	711.9	723.1	731.6	731.6
102.5°	700.6	706.3	713.3	711.9	704.9	699.2	703.4	714.7	721.7	721.7
105°	692.2	696.4	703.4	702.0	695.0	689.4	695.0	704.9	713.3	714.7
107.5°	680.9	685.2	692.2	692.2	685.2	679.5	683.7	695.0	702.0	703.4
110°	668.3	672.5	678.1	678.1	672.5	666.9	671.1	680.9	690.8	690.8



REPORT NUMBER: P256826

CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	654.2	658.4	664.1	664.1	657.0	652.8	657.0	668.3	676.7	676.7
115°	640.1	642.9	648.6	648.6	642.9	638.7	644.4	654.2	662.6	662.6
117.5°	624.7	627.5	631.7	633.1	627.5	623.3	628.9	637.3	647.2	647.2
120°	607.8	610.6	614.8	614.8	610.6	607.8	612.0	621.8	630.3	631.7
122.5°	592.3	593.7	596.5	596.5	592.3	590.9	595.1	606.4	613.4	614.8
125°	574.0	574.0	578.2	576.8	574.0	572.6	578.2	586.7	595.1	595.1
127.5°	555.7	555.7	557.1	557.1	554.3	552.9	559.9	568.4	575.4	576.8
130°	536.0	534.6	536.0	536.0	534.6	534.6	540.2	548.7	555.7	557.1
132.5°	514.9	513.5	513.5	513.5	513.5	513.5	519.1	527.6	534.6	536.0
135°	492.4	491.0	491.0	491.0	489.6	492.4	498.0	505.1	512.1	513.5
137.5°	471.3	468.5	468.5	467.1	468.5	471.3	475.5	482.6	489.6	489.6
140°	447.4	443.2	443.2	443.2	446.0	448.8	453.0	460.1	465.7	467.1
142.5°	424.9	420.7	419.3	420.7	422.1	424.9	430.5	437.5	441.8	441.8
145°	401.0	396.7	395.3	396.7	399.6	403.8	408.0	413.6	417.8	417.8
147.5°	379.9	375.6	374.2	374.2	378.5	382.7	386.9	392.5	395.3	395.3
150°	357.3	353.1	351.7	353.1	357.3	360.2	365.8	370.0	372.8	372.8
152.5°	333.4	329.2	327.8	329.2	332.0	336.2	341.9	346.1	350.3	348.9
155°	312.3	308.1	306.7	308.1	310.9	315.1	318.0	322.2	325.0	323.6
157.5°	292.6	289.8	288.4	289.8	292.6	295.4	298.3	301.1	303.9	302.5
160°	274.3	271.5	271.5	271.5	272.9	277.2	278.6	281.4	282.8	282.8
162.5°	256.1	253.2	253.2	254.6	256.1	258.9	260.3	261.7	261.7	261.7
165°	239.2	236.4	236.4	237.8	237.8	240.6	240.6	242.0	243.4	242.0
167.5°	223.7	222.3	220.9	222.3	223.7	225.1	225.1	225.1	226.5	225.1
170°	209.6	209.6	208.2	208.2	209.6	211.0	211.0	211.0	211.0	211.0
172.5°	198.4	198.4	198.4	198.4	199.8	199.8	199.8	199.8	199.8	199.8
175°	189.9	189.9	189.9	189.9	191.3	191.3	191.3	191.3	191.3	191.3
177.5°	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7	185.7
180°	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3

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