

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: P274489

Luminaire Tested: **ULA-A8-D-U-SYM-VMx-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274489
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-A8-D-U-SYM-VMx-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (180) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8423 lumens
Efficiency: N/A
Efficacy: 149.9 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): 56.2
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



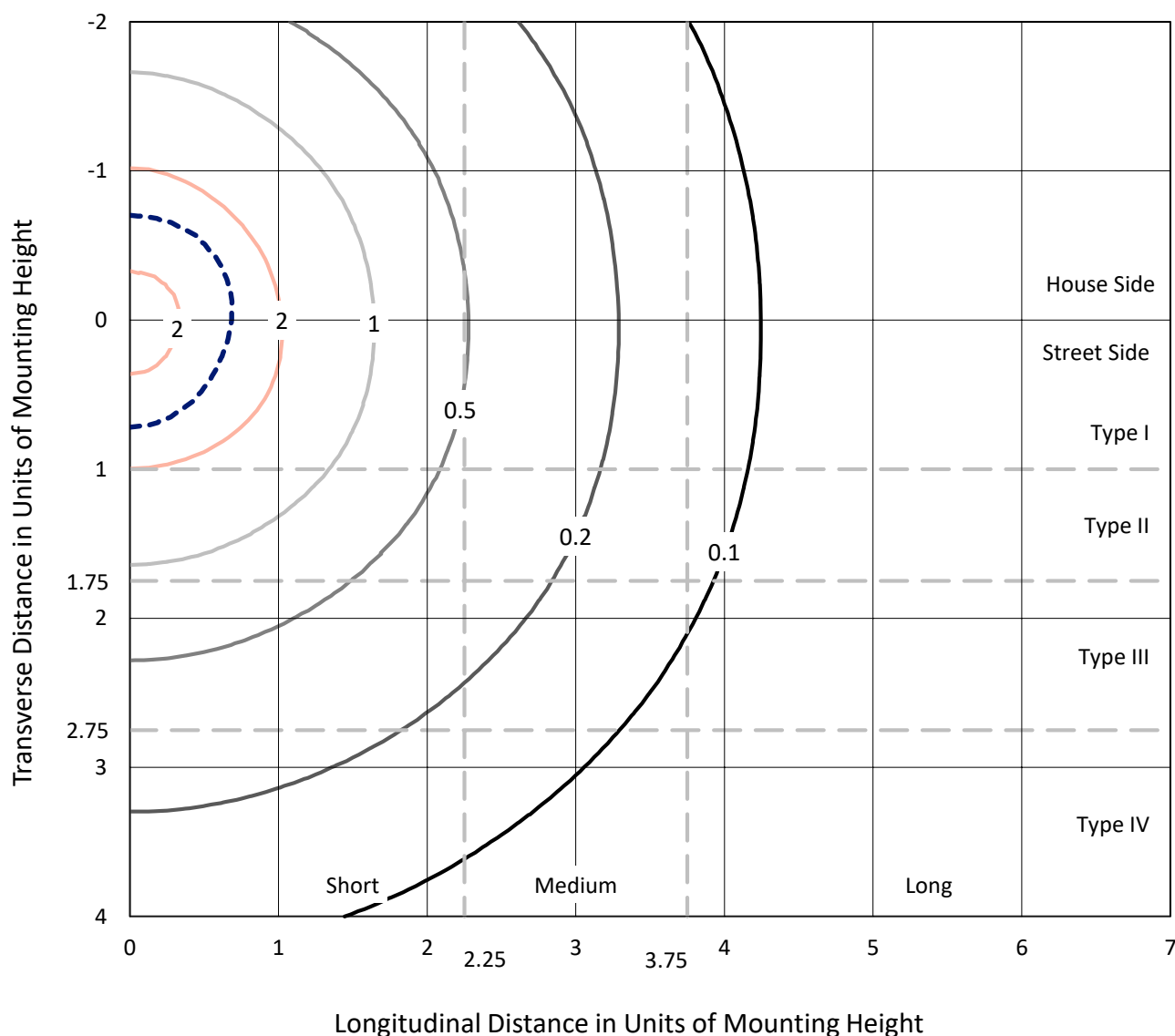
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

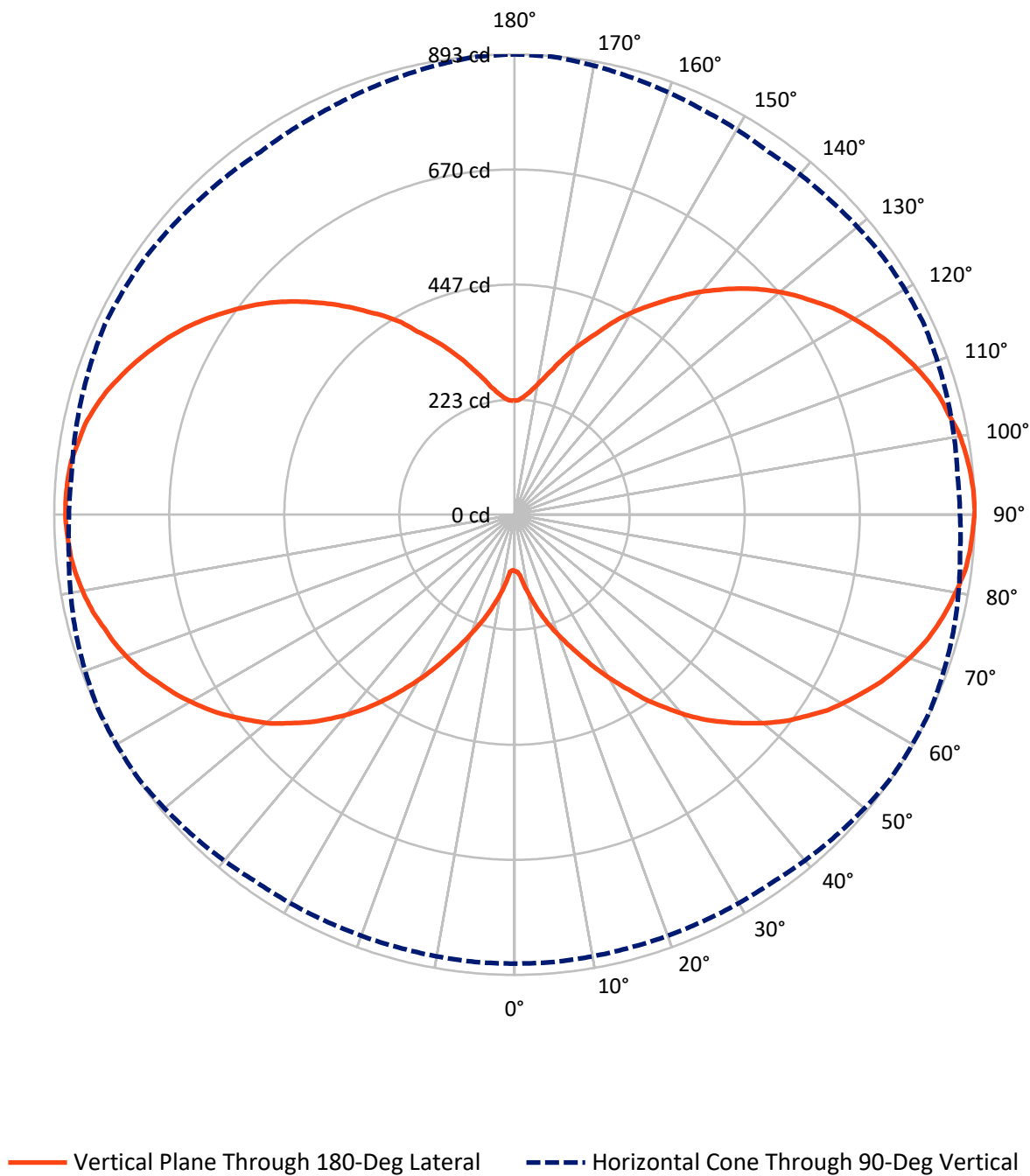


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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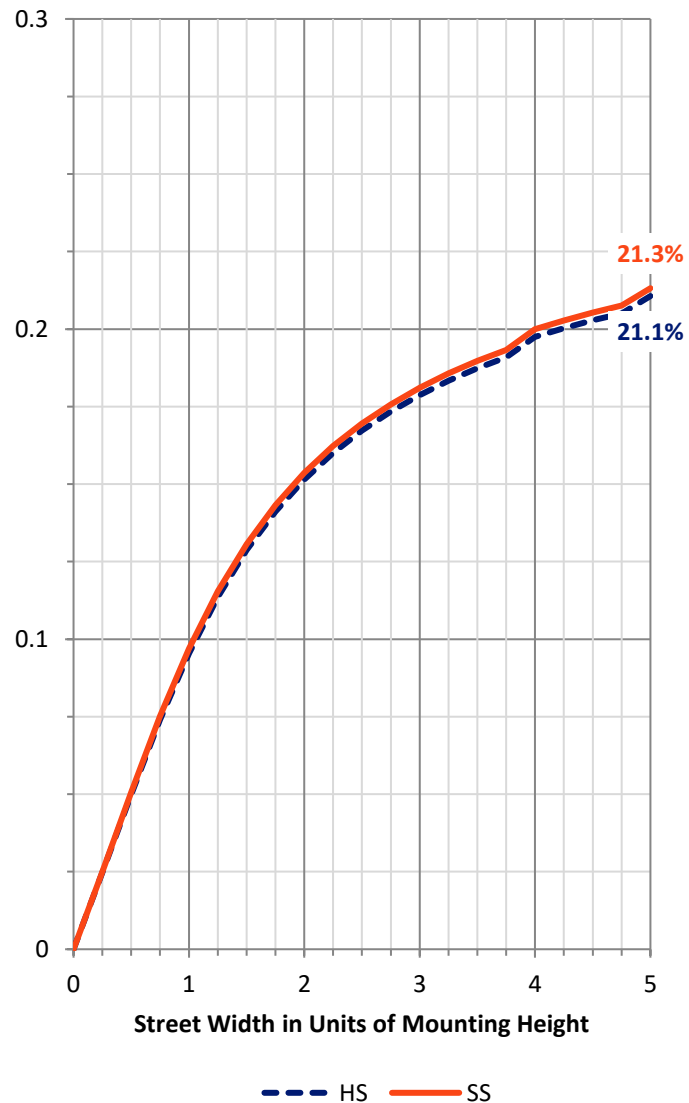
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.3	2135.5	4188.8
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	2081.1	2153.1	4234.2
	% Fixture	24.7	25.6	50.3
Total	Lumens	4134.4	4288.6	8423.0
	% Fixture	49.1	50.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	58.6	0.7
20°-30°	144.6	1.7
30°-40°	280.0	3.3
40°-50°	444.6	5.3
50°-60°	610.8	7.3
60°-70°	760.2	9.0
70°-80°	877.9	10.4
80°-90°	945.4	11.2
90°-100°	949.9	11.3
100°-110°	887.4	10.5
110°-120°	771.0	9.2
120°-130°	624.6	7.4
130°-140°	463.8	5.5
140°-150°	308.0	3.7
150°-160°	177.9	2.1
160°-170°	83.4	1.0
170°-180°	22.6	0.3
0°-90°	4134.4	49.1
0°-180°	8423.0	100.0



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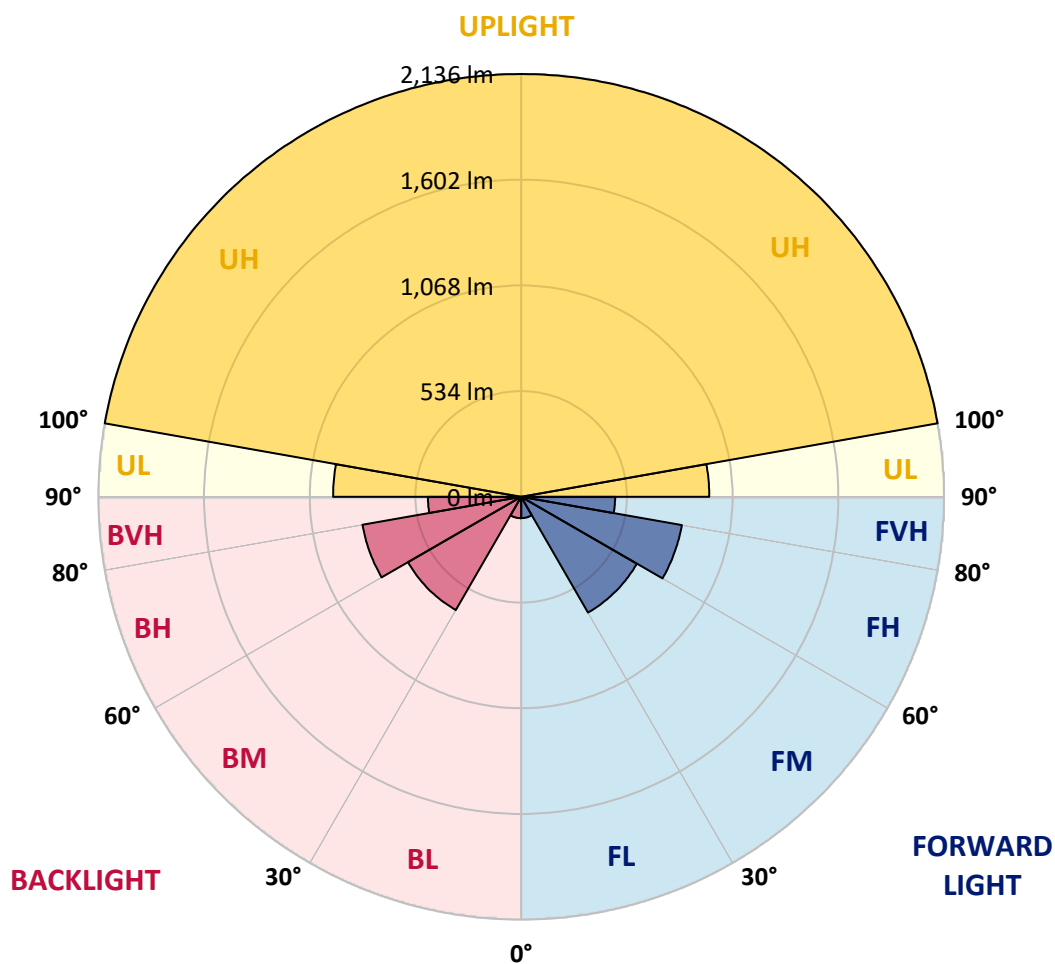
CATALOG NUMBER: ULA-A8-D-U-SYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.5	1.3			
FM	(30°-60°)	675.0	8.0			
FH	(60°-80°)	824.1	9.8			G1/1800
FVH	(80°-90°)	474.4	5.6			G3/500
BL	(0°-30°)	108.0	1.3	B0/110		
BM	(30°-60°)	660.4	7.8	B1/1000		
BH	(60°-80°)	813.9	9.7	B2/1000		G1/1800
BVH	(80°-90°)	470.9	5.6			G3/500
UL	(90°-100°)	949.9	11.3		U4/1000	
UH	(100°-180°)	2135.5	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°	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5
2.5°	107.9	107.9	107.9	106.2	106.2	106.2	106.2	106.2	106.2	107.9	107.9
5°	111.2	111.2	111.2	111.2	111.2	111.2	111.2	112.9	114.6	114.6	116.3
7.5°	131.4	129.8	129.8	129.8	129.8	129.8	129.8	131.4	133.1	134.8	134.8
10°	151.7	150.0	150.0	151.7	151.7	153.4	151.7	155.0	155.0	156.7	158.4
12.5°	171.9	170.2	171.9	173.6	175.3	175.3	176.9	178.6	178.6	180.3	180.3
15°	193.8	192.1	193.8	195.5	197.2	198.9	200.5	202.2	203.9	203.9	202.2
17.5°	217.4	215.7	217.4	219.1	220.8	222.4	225.8	227.5	227.5	227.5	227.5
20°	241.0	239.3	241.0	244.4	246.0	247.7	252.8	254.5	252.8	252.8	251.1
22.5°	267.9	266.3	267.9	271.3	276.4	278.1	281.4	283.1	281.4	281.4	279.7
25°	296.6	296.6	298.3	301.6	306.7	310.1	315.1	316.8	313.4	313.4	311.8
27.5°	328.6	328.6	330.3	335.4	338.7	343.8	350.5	350.5	348.8	347.1	345.5
30°	362.3	360.6	364.0	369.1	374.1	379.2	385.9	389.3	387.6	382.5	379.2
32.5°	396.0	394.3	397.7	404.4	411.2	416.2	423.0	424.7	423.0	417.9	414.6
35°	431.4	433.1	434.8	439.8	448.3	453.3	460.1	461.7	458.4	455.0	449.9
37.5°	466.8	466.8	470.2	475.2	483.6	488.7	495.4	497.1	495.4	488.7	485.3
40°	500.5	500.5	503.9	508.9	515.7	522.4	529.1	532.5	527.5	522.4	517.4
42.5°	532.5	532.5	535.9	539.3	546.0	554.4	561.2	564.5	561.2	552.7	547.7
45°	564.5	564.5	567.9	571.3	578.0	584.8	593.2	594.9	589.8	581.4	578.0
47.5°	593.2	593.2	596.6	599.9	606.7	615.1	621.8	623.5	618.5	610.0	605.0
50°	623.5	621.8	625.2	628.6	635.3	643.7	650.5	650.5	645.4	635.3	630.3
52.5°	648.8	650.5	650.5	653.9	660.6	667.3	675.8	677.4	670.7	658.9	655.5
55°	674.1	675.8	675.8	677.4	684.2	692.6	702.7	701.0	694.3	684.2	677.4
57.5°	699.4	699.4	701.0	701.0	706.1	716.2	726.3	724.6	717.9	706.1	701.0
60°	721.3	721.3	721.3	724.6	728.0	736.4	746.5	748.2	738.1	726.3	721.3
62.5°	743.2	743.2	743.2	744.9	748.2	756.6	768.4	768.4	756.6	744.9	739.8
65°	761.7	763.4	763.4	763.4	768.4	778.6	787.0	787.0	778.6	763.4	760.0
67.5°	781.9	781.9	780.2	780.2	785.3	793.7	805.5	805.5	795.4	780.2	776.9
70°	798.8	798.8	797.1	797.1	802.1	812.3	824.1	822.4	810.6	798.8	793.7
72.5°	813.9	815.6	812.3	812.3	817.3	827.4	839.2	837.5	825.7	812.3	808.9
75°	825.7	829.1	825.7	824.1	829.1	839.2	851.0	851.0	839.2	824.1	820.7
77.5°	839.2	840.9	837.5	837.5	840.9	852.7	862.8	862.8	852.7	837.5	832.5
80°	849.3	851.0	849.3	847.6	851.0	861.1	872.9	872.9	862.8	847.6	842.6
82.5°	857.8	857.8	856.1	856.1	859.4	869.6	879.7	879.7	869.6	856.1	852.7
85°	864.5	866.2	864.5	862.8	866.2	876.3	886.4	886.4	876.3	861.1	857.8
87.5°	867.9	869.6	867.9	867.9	869.6	879.7	889.8	888.1	879.7	864.5	861.1
90°	871.2	871.2	869.6	869.6	871.2	881.4	891.5	891.5	881.4	867.9	864.5
92.5°	871.2	872.9	871.2	871.2	872.9	879.7	889.8	891.5	881.4	867.9	864.5
95°	869.6	869.6	869.6	867.9	869.6	878.0	888.1	888.1	879.7	864.5	861.1
97.5°	866.2	866.2	864.5	864.5	866.2	874.6	883.0	883.0	874.6	861.1	857.8
100°	857.8	859.4	859.4	857.8	859.4	866.2	876.3	876.3	866.2	854.4	851.0
102.5°	851.0	849.3	849.3	849.3	849.3	856.1	866.2	864.5	856.1	844.3	840.9
105°	839.2	839.2	837.5	837.5	839.2	846.0	856.1	854.4	844.3	832.5	829.1
107.5°	825.7	825.7	824.1	824.1	825.7	832.5	842.6	840.9	830.8	819.0	815.6
110°	808.9	808.9	807.2	805.5	810.6	817.3	827.4	825.7	815.6	803.8	800.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	792.0	792.0	792.0	790.4	795.4	802.1	810.6	808.9	798.8	787.0	785.3
115°	773.5	773.5	771.8	771.8	778.6	785.3	793.7	790.4	780.2	770.1	766.8
117.5°	755.0	755.0	751.6	751.6	758.3	766.8	775.2	771.8	761.7	751.6	748.2
120°	734.7	734.7	731.4	731.4	739.8	748.2	756.6	753.3	743.2	731.4	729.7
122.5°	712.8	712.8	709.5	711.1	719.6	728.0	736.4	733.1	722.9	712.8	709.5
125°	689.2	689.2	687.6	689.2	697.7	706.1	714.5	711.1	701.0	692.6	687.6
127.5°	665.6	665.6	665.6	667.3	675.8	684.2	692.6	687.6	679.1	669.0	667.3
130°	642.1	642.1	640.4	643.7	652.2	660.6	667.3	665.6	655.5	647.1	643.7
132.5°	616.8	616.8	616.8	618.5	626.9	635.3	643.7	640.4	631.9	621.8	618.5
135°	589.8	589.8	591.5	593.2	601.6	610.0	616.8	613.4	606.7	596.6	591.5
137.5°	562.9	564.5	564.5	567.9	574.6	583.1	588.1	586.4	578.0	569.6	566.2
140°	535.9	535.9	537.6	540.9	547.7	554.4	557.8	556.1	551.1	542.6	537.6
142.5°	508.9	508.9	510.6	514.0	519.0	524.1	529.1	527.5	522.4	515.7	510.6
145°	482.0	482.0	483.6	487.0	492.1	495.4	500.5	498.8	493.8	487.0	482.0
147.5°	458.4	456.7	458.4	461.7	466.8	468.5	471.9	471.9	466.8	460.1	456.7
150°	433.1	433.1	434.8	436.5	439.8	443.2	444.9	444.9	439.8	433.1	429.7
152.5°	402.8	402.8	404.4	409.5	411.2	416.2	417.9	414.6	411.2	402.8	401.1
155°	379.2	379.2	379.2	382.5	384.2	385.9	387.6	385.9	382.5	377.5	375.8
157.5°	357.3	355.6	355.6	358.9	360.6	360.6	362.3	360.6	358.9	353.9	352.2
160°	333.7	333.7	333.7	335.4	335.4	338.7	338.7	337.0	333.7	332.0	328.6
162.5°	311.8	311.8	311.8	311.8	313.4	313.4	313.4	311.8	310.1	308.4	306.7
165°	289.9	289.9	289.9	289.9	289.9	291.5	291.5	289.9	288.2	286.5	286.5
167.5°	271.3	271.3	269.6	269.6	271.3	271.3	271.3	269.6	269.6	267.9	267.9
170°	252.8	254.5	254.5	252.8	252.8	252.8	252.8	252.8	252.8	251.1	251.1
172.5°	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3	237.6	237.6
175°	229.2	229.2	229.2	227.5	229.2	229.2	229.2	227.5	227.5	227.5	227.5
177.5°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5
2.5°	107.9	107.9	109.5	109.5	111.2	111.2	111.2	111.2	111.2	111.2
5°	116.3	116.3	118.0	118.0	118.0	119.6	119.6	119.6	119.6	119.6
7.5°	136.5	138.2	139.9	138.2	138.2	139.9	138.2	138.2	139.9	139.9
10°	156.7	158.4	160.1	160.1	160.1	160.1	160.1	160.1	160.1	158.4
12.5°	180.3	180.3	180.3	182.0	182.0	182.0	182.0	182.0	183.7	182.0
15°	202.2	202.2	202.2	203.9	203.9	203.9	203.9	205.6	207.3	205.6
17.5°	225.8	225.8	225.8	225.8	225.8	225.8	227.5	229.2	230.9	229.2
20°	251.1	251.1	249.4	249.4	249.4	249.4	251.1	252.8	252.8	252.8
22.5°	279.7	276.4	276.4	274.7	274.7	276.4	278.1	279.7	279.7	278.1
25°	310.1	306.7	303.3	305.0	303.3	305.0	306.7	308.4	308.4	306.7
27.5°	342.1	338.7	335.4	335.4	333.7	335.4	335.4	338.7	340.4	338.7
30°	375.8	372.4	367.4	367.4	365.7	365.7	369.1	370.7	372.4	370.7
32.5°	411.2	404.4	402.8	401.1	397.7	397.7	401.1	402.8	406.1	404.4
35°	448.3	443.2	436.5	433.1	433.1	434.8	436.5	438.1	443.2	441.5
37.5°	482.0	475.2	470.2	466.8	466.8	466.8	471.9	473.5	476.9	475.2
40°	514.0	507.2	502.2	498.8	498.8	498.8	503.9	505.6	510.6	510.6
42.5°	544.3	537.6	535.9	530.8	529.1	530.8	534.2	539.3	544.3	544.3
45°	573.0	567.9	564.5	561.2	559.5	561.2	564.5	571.3	576.3	574.6
47.5°	601.6	596.6	593.2	589.8	588.1	588.1	593.2	599.9	606.7	605.0
50°	628.6	623.5	620.1	618.5	616.8	616.8	621.8	628.6	637.0	635.3
52.5°	652.2	648.8	647.1	645.4	642.1	642.1	647.1	655.5	662.3	664.0
55°	675.8	672.4	672.4	669.0	667.3	667.3	672.4	680.8	687.6	689.2
57.5°	699.4	696.0	697.7	694.3	690.9	689.2	696.0	706.1	712.8	716.2
60°	719.6	717.9	717.9	716.2	712.8	711.1	717.9	728.0	736.4	738.1
62.5°	739.8	738.1	739.8	738.1	733.1	731.4	738.1	748.2	758.3	760.0
65°	758.3	756.6	761.7	758.3	753.3	751.6	758.3	770.1	780.2	781.9
67.5°	775.2	775.2	778.6	776.9	770.1	768.4	775.2	787.0	798.8	800.5
70°	792.0	793.7	798.8	795.4	788.7	787.0	792.0	805.5	817.3	819.0
72.5°	805.5	808.9	815.6	812.3	803.8	800.5	808.9	822.4	834.2	835.9
75°	820.7	822.4	827.4	825.7	819.0	813.9	822.4	835.9	847.6	849.3
77.5°	832.5	835.9	842.6	839.2	830.8	827.4	835.9	849.3	861.1	861.1
80°	842.6	847.6	852.7	851.0	842.6	837.5	846.0	859.4	871.2	871.2
82.5°	851.0	856.1	861.1	859.4	851.0	846.0	852.7	866.2	879.7	881.4
85°	857.8	862.8	869.6	867.9	857.8	852.7	859.4	874.6	884.7	886.4
87.5°	859.4	866.2	874.6	869.6	862.8	856.1	864.5	876.3	888.1	889.8
90°	862.8	869.6	876.3	872.9	864.5	859.4	866.2	878.0	891.5	893.1
92.5°	862.8	869.6	876.3	874.6	866.2	859.4	866.2	879.7	889.8	891.5
95°	861.1	867.9	874.6	872.9	862.8	857.8	864.5	876.3	888.1	888.1
97.5°	856.1	862.8	869.6	867.9	859.4	852.7	859.4	871.2	883.0	883.0
100°	849.3	856.1	864.5	862.8	852.7	847.6	852.7	866.2	876.3	876.3
102.5°	839.2	846.0	854.4	852.7	844.3	837.5	842.6	856.1	864.5	864.5
105°	829.1	834.2	842.6	840.9	832.5	825.7	832.5	844.3	854.4	856.1
107.5°	815.6	820.7	829.1	829.1	820.7	813.9	819.0	832.5	840.9	842.6
110°	800.5	805.5	812.3	812.3	805.5	798.8	803.8	815.6	827.4	827.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	783.6	788.7	795.4	795.4	787.0	781.9	787.0	800.5	810.6	810.6
115°	766.8	770.1	776.9	776.9	770.1	765.1	771.8	783.6	793.7	793.7
117.5°	748.2	751.6	756.6	758.3	751.6	746.5	753.3	763.4	775.2	775.2
120°	728.0	731.4	736.4	736.4	731.4	728.0	733.1	744.9	755.0	756.6
122.5°	709.5	711.1	714.5	714.5	709.5	707.8	712.8	726.3	734.7	736.4
125°	687.6	687.6	692.6	690.9	687.6	685.9	692.6	702.7	712.8	712.8
127.5°	665.6	665.6	667.3	667.3	664.0	662.3	670.7	680.8	689.2	690.9
130°	642.1	640.4	642.1	642.1	640.4	640.4	647.1	657.2	665.6	667.3
132.5°	616.8	615.1	615.1	615.1	615.1	615.1	621.8	631.9	640.4	642.1
135°	589.8	588.1	588.1	588.1	586.4	589.8	596.6	605.0	613.4	615.1
137.5°	564.5	561.2	561.2	559.5	561.2	564.5	569.6	578.0	586.4	586.4
140°	535.9	530.8	530.8	530.8	534.2	537.6	542.6	551.1	557.8	559.5
142.5°	508.9	503.9	502.2	503.9	505.6	508.9	515.7	524.1	529.1	529.1
145°	480.3	475.2	473.5	475.2	478.6	483.6	488.7	495.4	500.5	500.5
147.5°	455.0	449.9	448.3	448.3	453.3	458.4	463.4	470.2	473.5	473.5
150°	428.0	423.0	421.3	423.0	428.0	431.4	438.1	443.2	446.6	446.6
152.5°	399.4	394.3	392.6	394.3	397.7	402.8	409.5	414.6	419.6	417.9
155°	374.1	369.1	367.4	369.1	372.4	377.5	380.9	385.9	389.3	387.6
157.5°	350.5	347.1	345.5	347.1	350.5	353.9	357.3	360.6	364.0	362.3
160°	328.6	325.2	325.2	325.2	326.9	332.0	333.7	337.0	338.7	338.7
162.5°	306.7	303.3	303.3	305.0	306.7	310.1	311.8	313.4	313.4	313.4
165°	286.5	283.1	283.1	284.8	284.8	288.2	288.2	289.9	291.5	289.9
167.5°	267.9	266.3	264.6	266.3	267.9	269.6	269.6	269.6	271.3	269.6
170°	251.1	251.1	249.4	249.4	251.1	252.8	252.8	252.8	252.8	252.8
172.5°	237.6	237.6	237.6	237.6	239.3	239.3	239.3	239.3	239.3	239.3
175°	227.5	227.5	227.5	227.5	229.2	229.2	229.2	229.2	229.2	229.2
177.5°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8

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