

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: P256839

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256839
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-A5-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: 3632.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type IV - 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

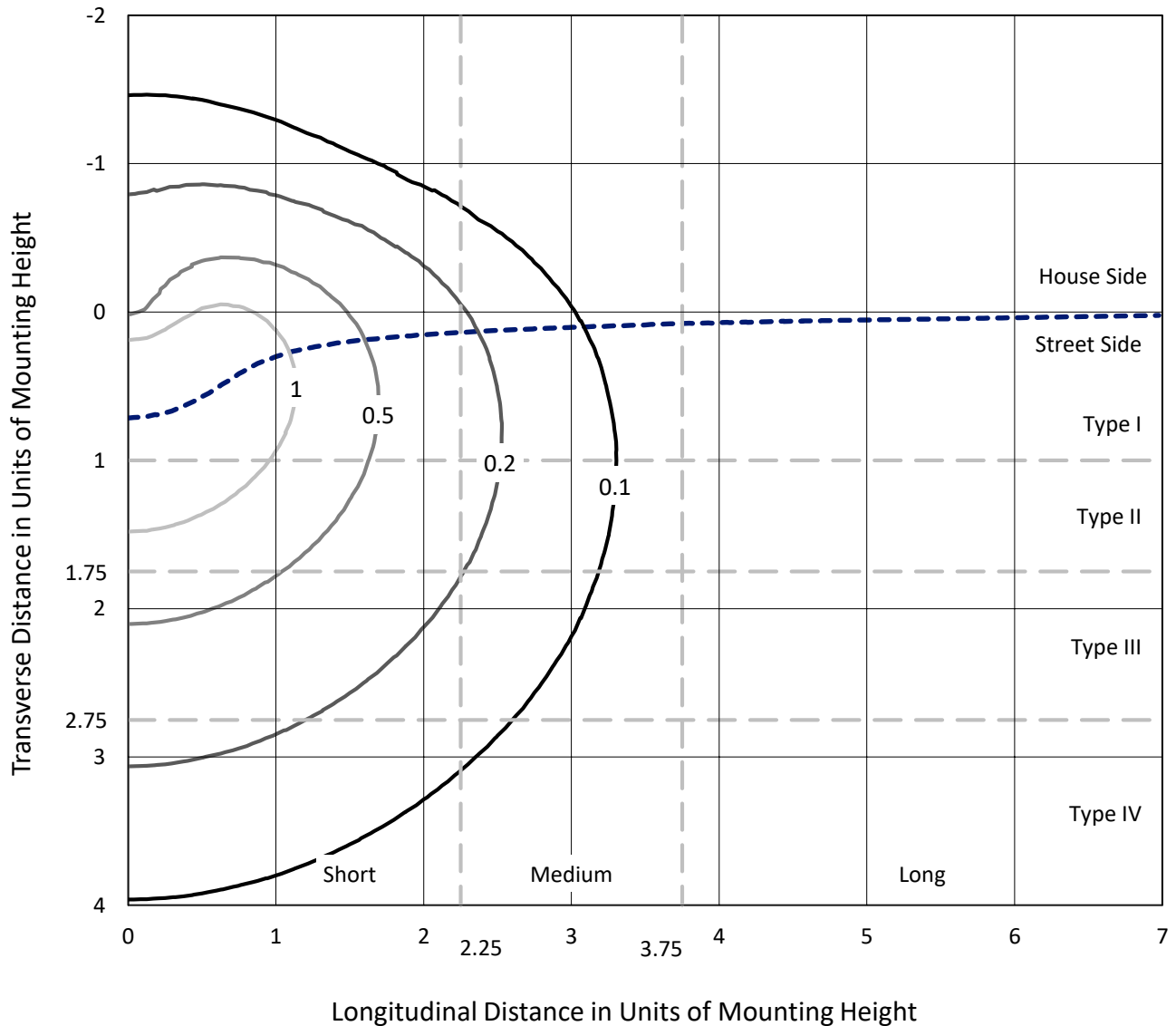


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

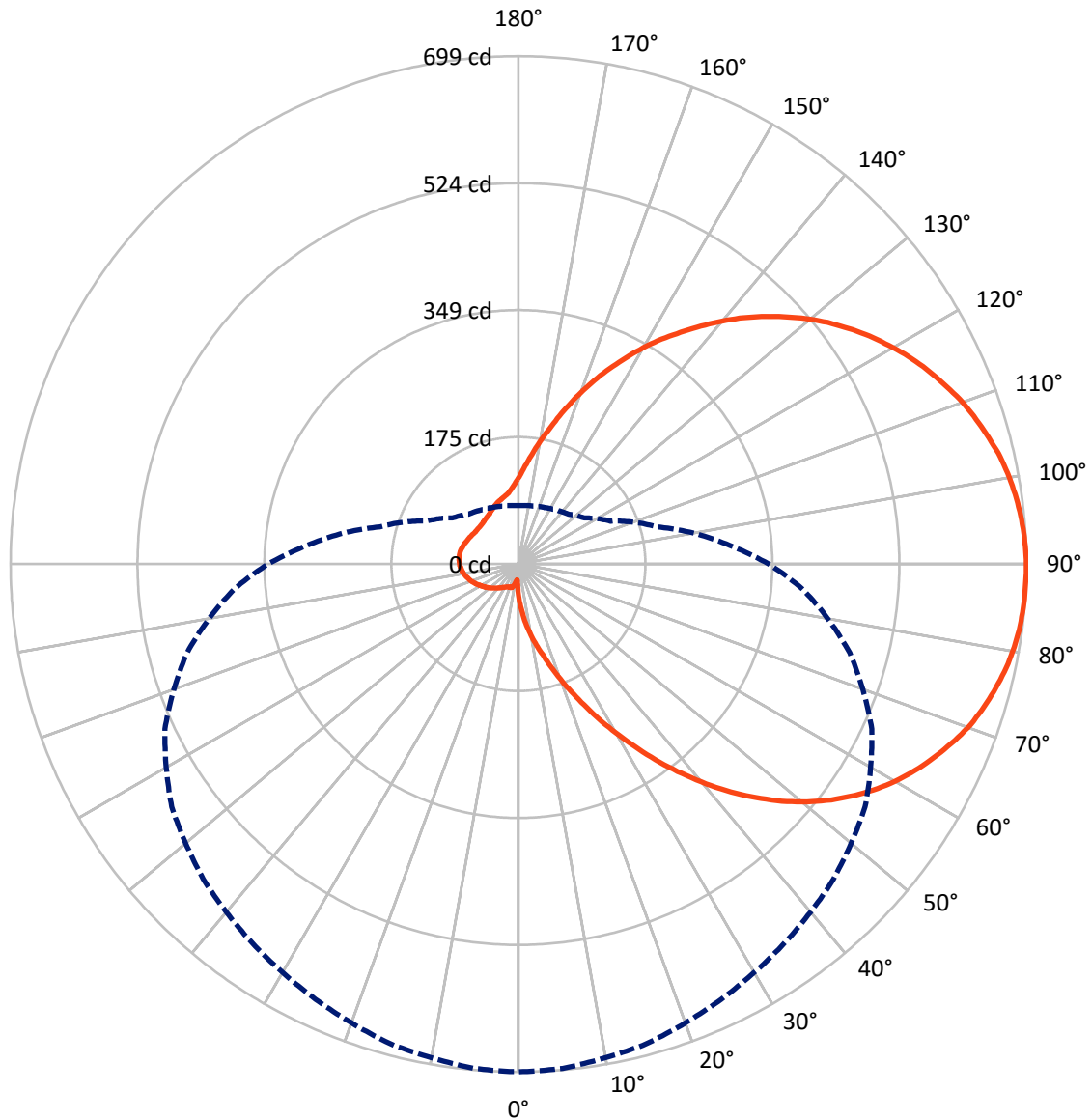


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 88-Deg Vertical



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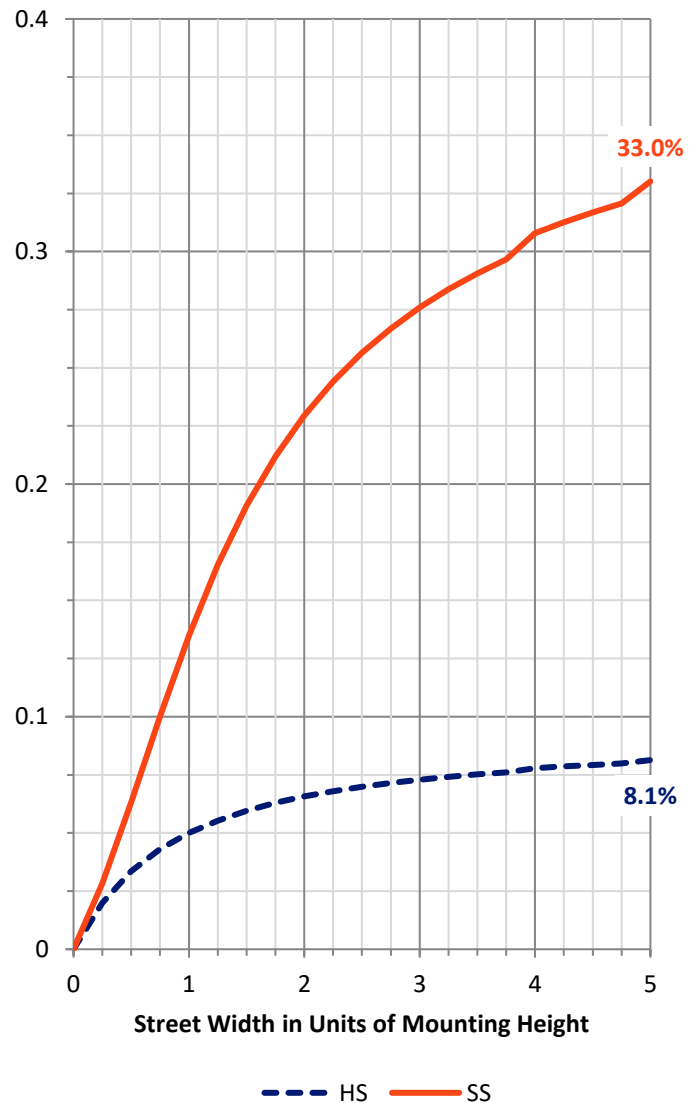
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.5	431.1	759.6
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1406.5	1466.4	2872.8
	% Fixture	38.7	40.4	79.1
Total	Lumens	1734.9	1897.5	3632.4
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	24.6	0.7
20°-30°	61.7	1.7
30°-40°	120.2	3.3
40°-50°	190.9	5.3
50°-60°	260.1	7.2
60°-70°	319.4	8.8
70°-80°	364.2	10.0
80°-90°	388.7	10.7
90°-100°	391.0	10.8
100°-110°	370.9	10.2
110°-120°	333.0	9.2
120°-130°	281.9	7.8
130°-140°	219.6	6.0
140°-150°	152.9	4.2
150°-160°	92.1	2.5
160°-170°	44.0	1.2
170°-180°	11.9	0.3
0°-90°	1734.9	47.8
0°-180°	3632.4	100.0

Coefficient of Utilization



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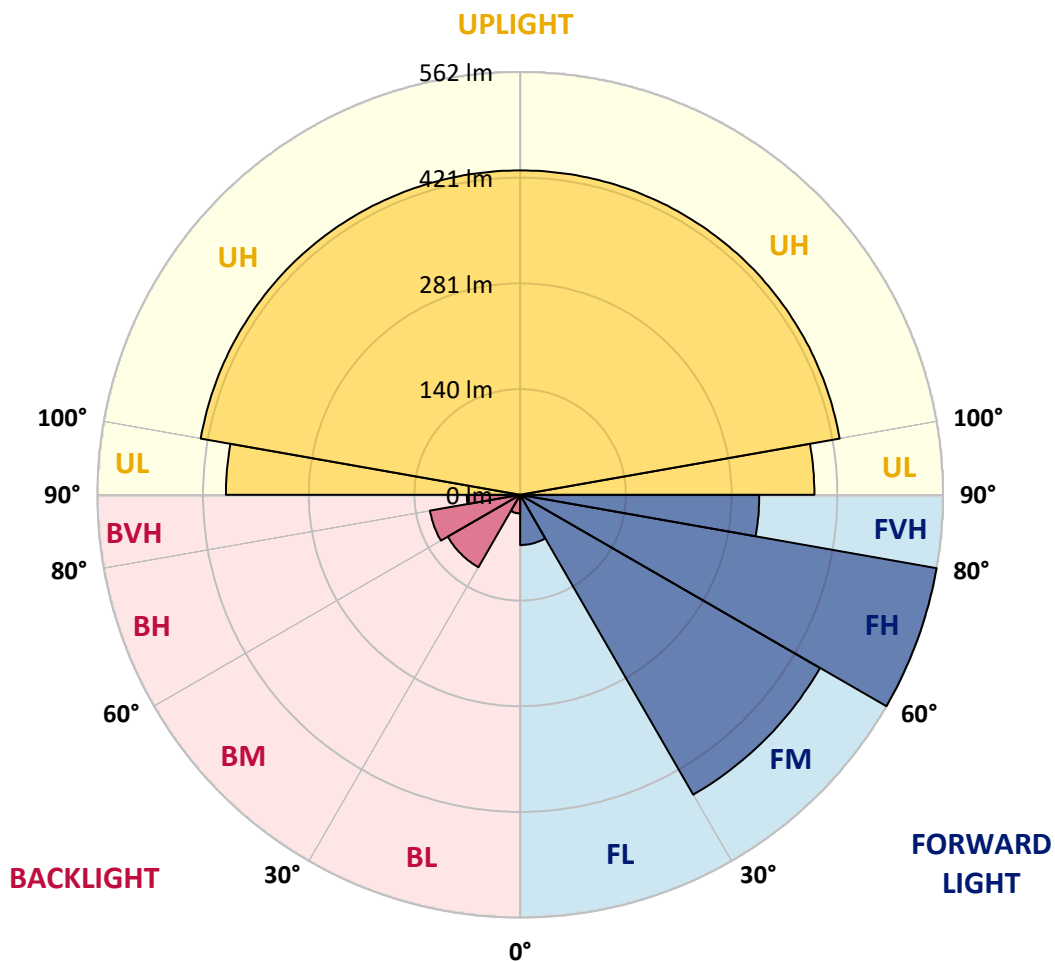
CATALOG NUMBER: ULA-A5-D-U-SYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	66.7	1.8			
FM (30°-60°)	460.1	12.7			
FH (60°-80°)	561.9	15.5			G0/660
FVH (80°-90°)	317.7	8.7			G3/500
BL (0°-30°)	24.7	0.7	B0/110		
BM (30°-60°)	111.1	3.1	B0/220		
BH (60°-80°)	121.7	3.3	B1/500		G1/500
BVH (80°-90°)	71.0	2.0			G1/100
UL (90°-100°)	391.0	10.8		U3/500	
UH (100°-180°)	431.1	11.9		U3/500	

BUG Rating: B1-U5-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
2.5°	57.6	57.6	56.6	57.1	55.5	54.4	52.3	50.1	48.5	46.3	45.3
5°	73.3	72.2	71.1	70.0	67.3	64.6	62.0	58.2	54.4	50.6	48.5
7.5°	87.8	87.3	85.1	83.5	80.3	77.0	73.3	68.4	64.1	59.3	56.6
10°	102.4	101.8	99.7	98.0	94.3	91.0	86.2	80.8	75.4	69.0	65.7
12.5°	116.9	116.4	114.2	113.1	109.9	106.1	100.7	93.7	87.3	79.7	76.0
15°	132.0	132.0	131.4	129.3	125.5	121.7	116.4	108.3	100.2	91.0	86.7
17.5°	151.9	150.8	149.2	147.6	144.4	140.1	132.0	124.4	114.2	103.4	97.0
20°	172.4	171.3	170.2	168.1	163.8	159.5	151.4	142.2	129.3	116.4	108.3
22.5°	194.5	193.4	192.3	190.2	185.9	181.0	172.4	161.6	148.1	131.4	121.2
25°	218.7	218.7	217.1	214.9	210.1	205.2	195.0	183.2	167.5	147.6	136.3
27.5°	246.2	244.6	244.0	241.3	237.0	231.1	220.3	206.3	188.0	164.8	152.5
30°	273.7	273.1	272.6	269.4	264.5	258.0	245.7	231.1	209.0	182.1	167.5
32.5°	303.3	303.8	301.7	297.9	292.5	285.5	272.0	254.8	231.1	199.3	182.6
35°	335.1	334.5	331.3	328.6	321.6	313.0	297.9	278.5	251.6	216.0	197.2
37.5°	365.8	366.3	363.1	358.8	350.7	341.0	324.3	302.2	271.0	232.2	211.2
40°	397.6	398.1	394.3	387.9	379.2	367.9	349.6	325.4	290.9	247.8	223.6
42.5°	428.8	428.8	425.0	418.6	406.7	393.8	373.9	347.5	309.2	261.8	236.0
45°	458.4	458.4	453.6	445.5	432.6	418.0	396.5	367.4	325.9	274.7	246.7
47.5°	487.5	487.0	481.6	470.8	458.4	441.7	419.1	385.7	342.1	287.1	256.4
50°	514.5	514.5	506.9	495.1	479.4	462.7	438.5	403.5	357.2	298.4	265.6
52.5°	539.2	538.7	530.6	517.7	500.5	482.7	456.8	419.7	370.1	308.7	274.2
55°	561.9	561.3	552.2	537.6	519.9	500.5	473.5	434.7	383.0	318.4	281.7
57.5°	582.9	582.3	571.6	555.4	537.6	517.2	489.1	448.7	394.9	327.5	289.3
60°	601.7	600.7	589.9	572.1	553.3	532.2	504.2	462.2	405.6	335.6	296.3
62.5°	618.4	617.4	605.5	587.2	567.3	545.7	516.1	473.5	415.3	343.7	302.2
65°	633.5	632.4	620.6	600.7	580.2	558.1	527.9	484.3	424.5	350.7	308.7
67.5°	647.5	646.4	633.0	612.5	592.0	569.4	539.2	494.5	433.1	357.7	314.6
70°	660.5	658.3	644.3	623.8	601.7	578.6	548.9	503.7	441.2	364.2	320.0
72.5°	670.2	668.5	654.5	633.0	610.9	588.3	557.6	511.2	448.7	370.1	324.8
75°	678.8	677.7	663.1	641.1	618.4	595.3	565.1	517.7	454.7	376.0	329.7
77.5°	686.3	684.2	670.2	648.1	624.9	601.2	571.0	524.2	460.1	380.3	333.5
80°	691.7	690.1	675.5	652.9	629.7	606.0	575.9	529.0	464.4	384.1	336.7
82.5°	695.5	693.3	679.3	656.7	633.5	609.3	579.1	531.7	467.6	387.3	339.9
85°	697.6	696.0	681.5	659.4	635.7	611.4	581.3	534.4	470.3	390.0	342.1
87.5°	698.2	697.1	683.1	660.5	636.8	613.0	582.3	536.0	471.9	391.6	343.7
88°	698.7	696.5	683.1	660.5	637.3	613.0	582.3	536.6	471.9	392.2	344.2
90°	698.7	696.5	683.1	661.0	637.3	612.5	582.9	537.1	472.4	392.7	345.3
92.5°	697.1	695.5	682.0	660.5	636.8	612.0	582.3	536.6	473.0	393.8	346.4
95°	694.4	692.8	679.8	658.3	634.6	610.4	580.7	535.5	472.4	393.8	346.4
97.5°	690.1	688.5	676.1	654.5	631.4	607.1	577.5	533.3	470.8	393.3	346.4
100°	684.7	683.1	670.7	649.7	626.5	602.8	573.7	530.6	468.7	392.2	345.8
102.5°	677.7	675.5	663.7	643.2	621.1	597.4	568.9	525.8	465.4	390.0	344.8
105°	668.0	666.9	655.6	635.7	613.0	590.4	562.4	520.9	461.7	387.3	342.6
107.5°	658.8	657.2	645.9	626.5	605.5	583.4	555.9	515.0	457.4	384.6	341.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	648.1	646.4	635.1	616.8	595.8	574.8	547.9	508.5	452.5	381.4	339.4
112.5°	635.1	634.1	622.7	605.5	585.6	565.6	539.8	501.5	447.1	378.2	337.2
115°	622.2	620.6	609.8	593.7	574.3	555.4	530.6	493.5	440.7	374.4	335.1
117.5°	608.2	606.6	595.8	580.2	562.4	544.1	520.4	484.8	434.2	370.1	332.4
120°	592.0	591.0	580.7	566.2	550.0	532.2	509.1	475.7	427.2	365.8	329.7
122.5°	575.9	574.3	565.1	551.6	536.6	519.9	497.8	466.0	419.1	360.4	326.5
125°	558.1	557.0	548.4	536.0	522.0	506.4	485.4	454.1	410.5	355.0	322.7
127.5°	539.8	538.2	530.1	518.8	506.4	491.3	471.9	442.8	401.3	348.0	318.4
130°	519.9	518.8	511.2	501.0	488.6	475.1	456.8	429.3	390.6	340.5	312.4
132.5°	498.8	497.8	491.3	482.7	470.3	457.9	440.7	414.3	378.2	331.8	306.0
135°	477.3	476.8	470.8	462.7	451.4	440.1	423.4	399.2	365.8	322.7	298.4
137.5°	455.2	454.7	449.3	441.2	432.6	420.7	405.1	382.5	351.8	311.9	289.3
140°	431.5	431.0	426.7	419.1	410.0	400.3	385.2	364.7	336.2	299.5	279.6
142.5°	407.8	407.3	403.5	398.1	389.5	379.2	365.2	345.8	320.5	287.1	268.8
145°	384.6	384.1	380.9	375.5	367.4	358.2	344.8	328.1	304.4	274.2	258.0
147.5°	362.5	361.5	358.8	354.5	346.9	337.8	325.4	309.8	288.2	261.3	246.7
150°	338.8	338.3	335.1	331.8	324.3	316.8	304.9	291.4	271.5	247.3	234.3
152.5°	315.1	314.6	312.4	308.7	302.2	295.2	284.4	272.0	254.8	233.3	221.9
155°	292.0	291.4	289.3	286.6	280.1	273.7	264.0	252.7	237.0	218.7	208.5
157.5°	268.8	268.8	267.7	264.5	258.6	252.7	243.0	234.3	220.3	204.2	196.1
160°	246.2	246.2	245.7	242.4	237.6	232.2	223.6	214.9	204.2	190.2	183.2
162.5°	224.1	223.0	223.6	221.4	216.6	212.3	204.7	197.7	187.5	175.6	169.7
165°	203.1	202.6	203.1	200.9	196.6	192.9	185.9	180.5	171.8	161.6	157.3
167.5°	184.2	184.2	183.7	182.1	178.3	175.1	169.7	164.8	157.8	149.8	146.0
170°	167.5	166.5	167.0	165.4	162.7	160.0	155.1	150.8	145.5	139.0	136.3
172.5°	151.9	150.8	151.4	149.8	148.1	146.0	142.8	139.0	134.7	128.8	127.1
175°	137.9	137.4	137.4	136.3	135.2	133.6	130.4	128.2	125.5	122.3	121.2
177.5°	125.5	124.4	125.0	124.4	123.9	123.4	122.3	121.2	119.6	118.0	117.4
180°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
2.5°	44.2	42.0	39.3	36.6	33.9	31.8	30.7	29.1	29.1	28.0
5°	46.3	42.0	37.7	33.9	30.2	26.9	24.2	22.6	22.1	22.1
7.5°	53.9	49.0	43.6	38.8	34.5	30.7	27.5	24.8	23.7	23.2
10°	62.5	56.6	49.6	44.2	39.3	34.5	30.7	28.0	26.9	26.9
12.5°	71.6	64.1	56.0	49.0	42.6	37.7	33.9	31.8	30.7	30.2
15°	81.3	71.6	62.0	53.3	46.3	40.4	36.6	34.5	33.4	32.9
17.5°	91.0	79.2	67.9	57.6	49.0	43.1	38.2	35.0	33.9	33.9
20°	101.3	86.7	73.3	61.4	51.7	44.2	38.8	35.6	33.9	33.9
22.5°	113.1	95.4	78.7	65.2	53.9	45.8	39.9	36.1	33.9	33.9
25°	125.5	104.5	85.1	69.0	56.6	47.4	40.9	36.6	35.0	34.5
27.5°	139.5	113.7	91.6	72.7	59.3	49.0	42.0	37.7	35.6	35.6
30°	153.0	122.3	97.0	76.5	61.4	50.6	43.1	38.8	36.6	36.6
32.5°	165.9	130.9	101.8	79.7	63.6	52.3	44.7	39.9	38.2	37.7
35°	177.8	139.0	106.1	81.9	65.2	53.9	46.3	41.5	39.3	39.3
37.5°	189.1	146.0	109.9	84.0	66.8	54.9	47.9	43.1	40.9	40.9
40°	199.3	151.9	112.6	85.7	67.9	56.6	49.6	44.7	43.1	42.6
42.5°	209.0	156.8	114.7	86.7	69.0	58.2	51.2	46.9	44.7	44.7
45°	217.1	161.1	116.9	87.8	70.0	59.3	52.8	48.5	46.9	46.3
47.5°	224.6	164.8	118.0	88.9	71.1	60.9	54.4	50.6	49.0	48.5
50°	231.6	167.5	119.1	89.4	72.2	62.5	56.0	52.8	51.2	50.6
52.5°	238.1	170.2	119.6	90.0	73.3	63.6	58.2	54.4	52.8	52.8
55°	243.5	172.9	120.7	91.0	74.3	65.7	59.8	57.1	55.5	54.9
57.5°	249.4	175.1	121.7	91.6	76.0	67.3	62.0	59.3	57.6	57.1
60°	254.3	177.2	122.8	92.7	77.0	69.0	64.1	61.4	59.8	59.3
62.5°	259.1	178.9	123.4	93.7	78.7	71.1	66.3	63.6	62.0	61.4
65°	263.4	181.0	125.0	95.4	80.3	72.7	68.4	65.7	64.1	64.1
67.5°	267.7	183.2	126.1	96.4	82.4	74.9	70.6	67.9	66.3	66.3
70°	272.0	184.8	127.1	98.0	84.0	77.0	72.7	70.0	68.4	68.4
72.5°	275.8	186.9	128.8	100.2	86.2	79.2	74.9	72.2	70.6	70.6
75°	279.1	188.5	130.4	101.8	87.8	81.3	77.0	74.3	72.7	72.2
77.5°	282.8	190.7	132.5	103.4	90.0	83.5	79.2	76.5	74.3	74.3
80°	285.5	191.8	134.1	105.0	92.1	85.1	80.8	78.1	76.5	76.0
82.5°	288.2	193.9	135.8	106.7	93.7	86.7	82.4	79.7	78.1	77.6
85°	289.8	195.0	136.8	108.3	95.4	88.3	84.0	80.8	79.2	78.7
87.5°	291.4	196.6	138.4	109.9	97.0	90.0	85.7	82.4	80.3	79.7
88°	292.0	197.2	139.5	110.4	97.0	90.5	85.7	82.4	80.8	80.3
90°	293.1	198.2	140.6	111.5	98.0	91.0	86.7	83.0	81.3	80.8
92.5°	293.6	199.3	141.7	112.6	99.7	92.1	87.3	84.0	81.9	81.3
95°	294.7	200.4	143.3	114.2	100.7	93.2	87.8	84.6	82.4	81.9
97.5°	294.7	201.5	144.9	115.3	101.3	93.7	88.3	84.6	82.4	81.9
100°	294.7	202.6	146.5	116.4	102.4	93.7	88.3	84.6	82.4	81.9
102.5°	294.1	204.2	148.1	118.0	102.9	94.3	88.3	84.0	81.9	81.9
105°	293.6	205.2	149.8	119.6	104.0	94.3	87.8	83.5	81.3	81.3
107.5°	293.6	207.4	152.5	121.2	104.5	94.3	87.3	83.0	80.8	80.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	293.1	209.6	155.7	123.9	106.1	94.8	87.3	82.4	79.7	79.7
112.5°	292.5	212.3	158.4	126.1	107.2	94.8	86.7	81.3	79.2	78.7
115°	293.1	214.9	162.2	128.8	108.8	95.4	86.2	80.8	78.1	77.6
117.5°	292.0	217.6	165.9	132.0	110.4	95.9	86.2	80.3	77.0	77.0
120°	291.4	220.3	169.7	136.3	112.6	96.4	85.7	79.2	76.5	76.0
122.5°	290.4	223.0	173.5	139.5	114.7	97.5	85.7	78.7	75.4	75.4
125°	288.7	224.6	176.2	142.2	116.4	98.0	85.7	78.7	74.9	74.3
127.5°	286.1	225.7	179.4	144.9	118.0	99.1	85.7	78.1	74.3	73.8
130°	282.8	226.3	181.0	147.1	119.6	99.7	86.2	78.1	74.3	73.8
132.5°	278.0	225.7	182.1	148.7	121.2	100.7	86.7	78.1	74.3	73.8
135°	273.1	224.1	182.6	149.8	122.3	101.8	87.3	78.1	74.3	73.8
137.5°	266.1	221.4	182.6	150.3	122.8	102.4	87.8	78.7	74.9	74.3
140°	258.6	217.1	180.5	150.3	123.4	103.4	88.9	79.7	75.4	74.9
142.5°	250.0	212.8	178.9	149.2	123.4	104.0	89.4	80.3	76.0	76.0
145°	240.8	207.4	175.6	148.7	123.4	104.5	90.5	81.3	77.0	77.0
147.5°	231.6	201.5	172.4	147.1	123.4	105.0	91.6	83.0	78.7	78.1
150°	221.4	193.9	167.5	143.8	122.3	105.0	92.1	84.0	79.7	79.2
152.5°	210.1	185.9	162.7	141.1	120.7	105.0	93.2	85.1	81.3	81.3
155°	198.8	177.2	156.8	137.4	119.6	105.6	94.8	87.3	83.5	83.5
157.5°	186.9	169.2	150.8	133.6	118.0	105.6	95.9	89.4	86.2	85.7
160°	175.6	160.5	144.9	129.3	116.4	105.6	97.0	91.0	88.3	87.8
162.5°	163.8	150.8	137.9	125.0	113.7	104.5	97.5	92.7	90.0	90.0
165°	151.9	141.7	129.8	120.1	111.0	104.0	98.0	93.7	91.6	91.6
167.5°	142.2	133.1	123.9	115.8	109.4	103.4	98.6	95.4	93.7	93.7
170°	132.5	125.5	119.1	113.1	107.7	102.9	99.7	97.5	95.9	95.9
172.5°	125.0	120.1	115.3	111.0	107.2	104.0	101.3	99.7	98.6	98.6
175°	119.6	116.4	113.7	110.4	108.3	106.1	104.5	103.4	102.9	103.4
177.5°	116.9	115.3	113.7	112.1	111.5	110.4	109.4	108.8	108.8	109.4
180°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4

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