

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: P256845

Luminaire Tested: **ULA-A7-D-U-SYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256845
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-A7-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: 5110.6 lumens
Efficiency: N/A
Efficacy: 93.3 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): 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



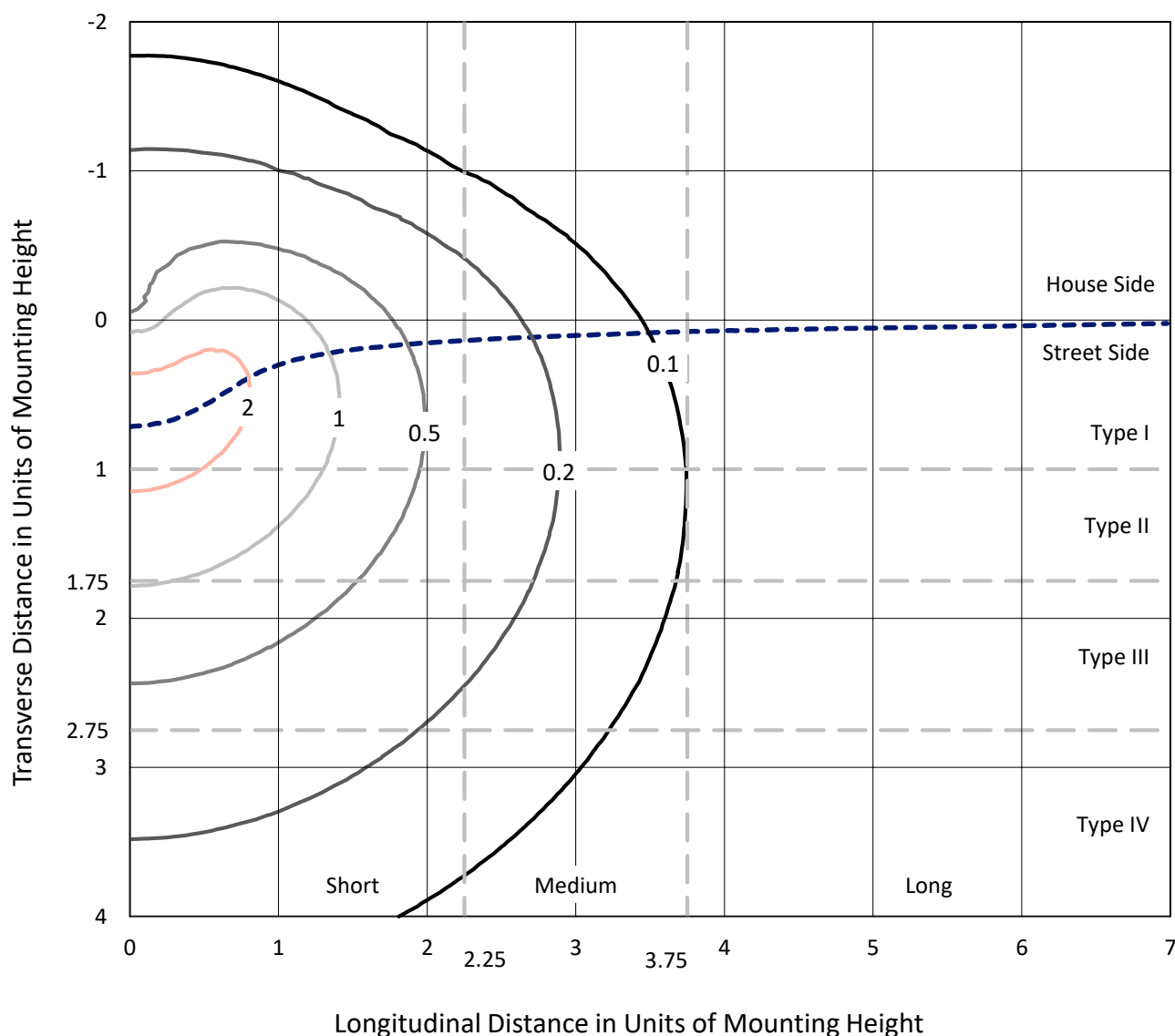
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

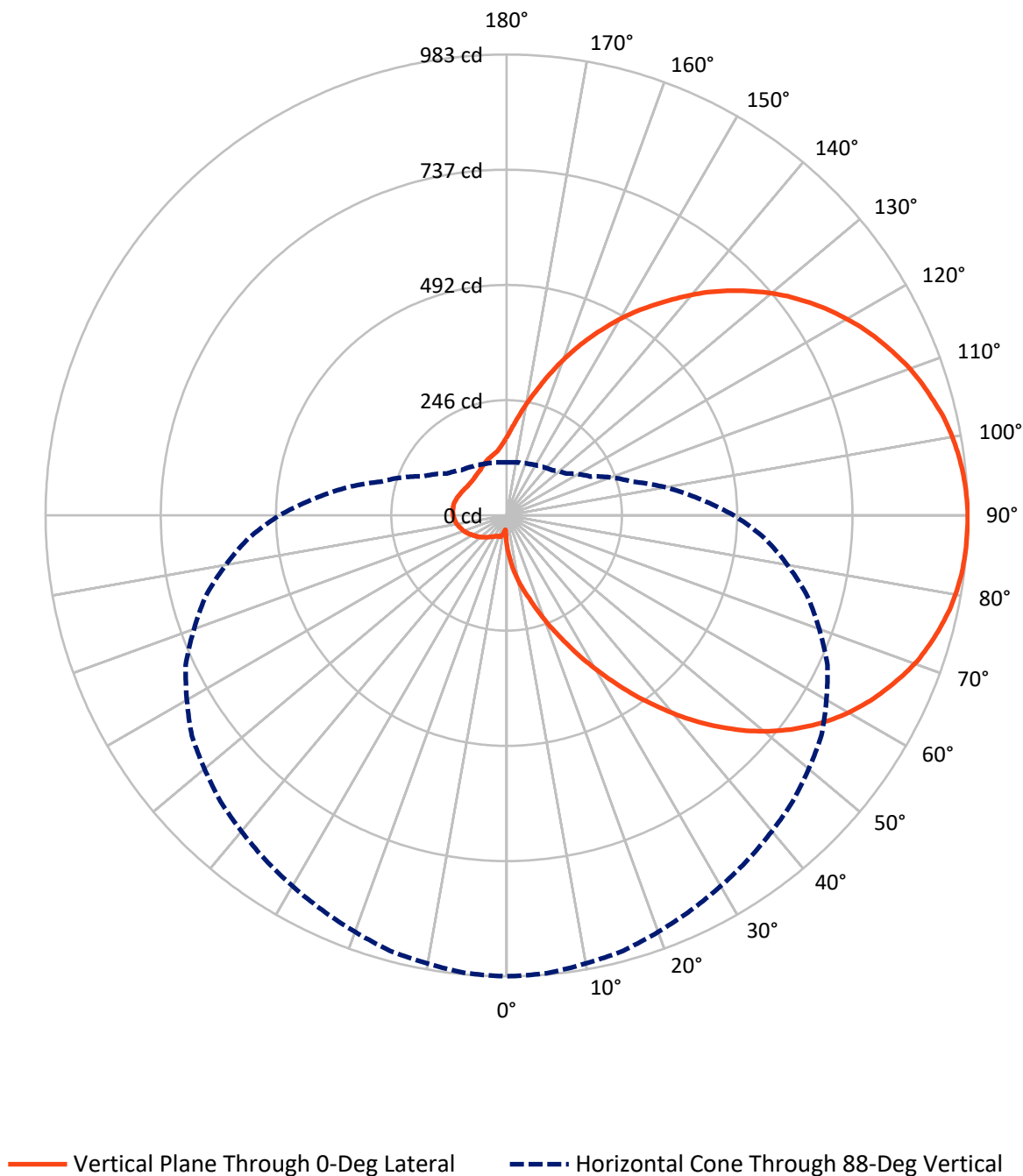


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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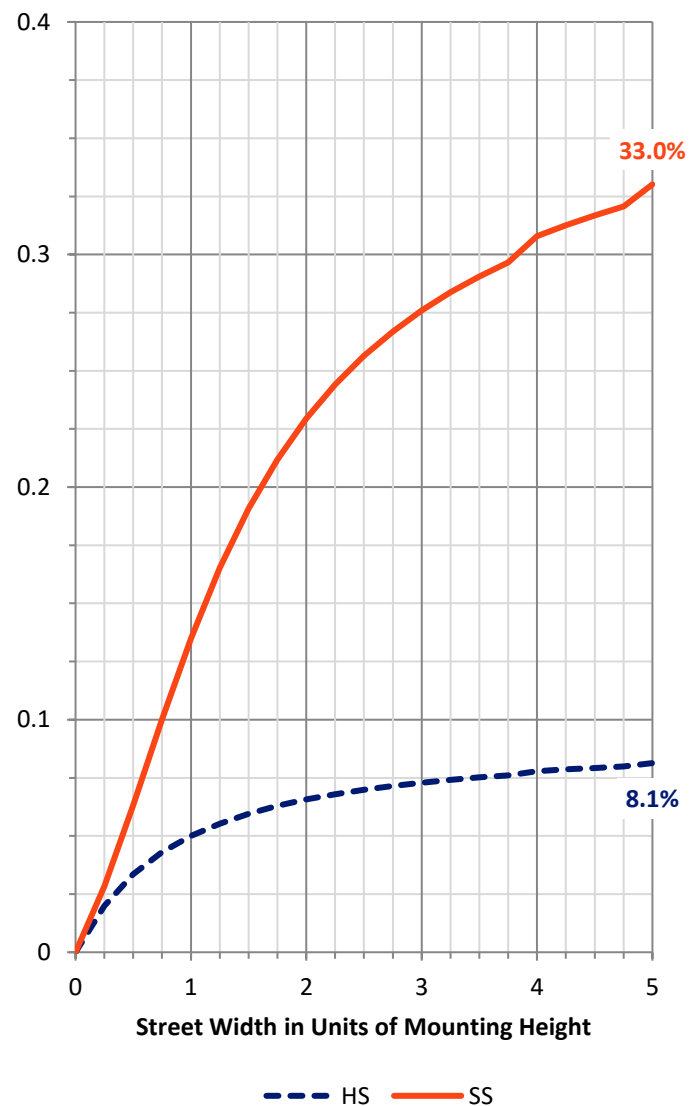
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.1	606.6	1068.7
	% Fixture	9.0	11.9	20.9
Street Side	Lumens	1978.8	2063.1	4041.9
	% Fixture	38.7	40.4	79.1
Total	Lumens	2441.0	2669.6	5110.6
	% Fixture	47.8	52.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	34.6	0.7
20°-30°	86.9	1.7
30°-40°	169.1	3.3
40°-50°	268.6	5.3
50°-60°	366.0	7.2
60°-70°	449.4	8.8
70°-80°	512.4	10.0
80°-90°	546.9	10.7
90°-100°	550.1	10.8
100°-110°	521.9	10.2
110°-120°	468.6	9.2
120°-130°	396.7	7.8
130°-140°	309.0	6.0
140°-150°	215.2	4.2
150°-160°	129.5	2.5
160°-170°	61.8	1.2
170°-180°	16.8	0.3
0°-90°	2441.0	47.8
0°-180°	5110.6	100.0

Coefficient of Utilization



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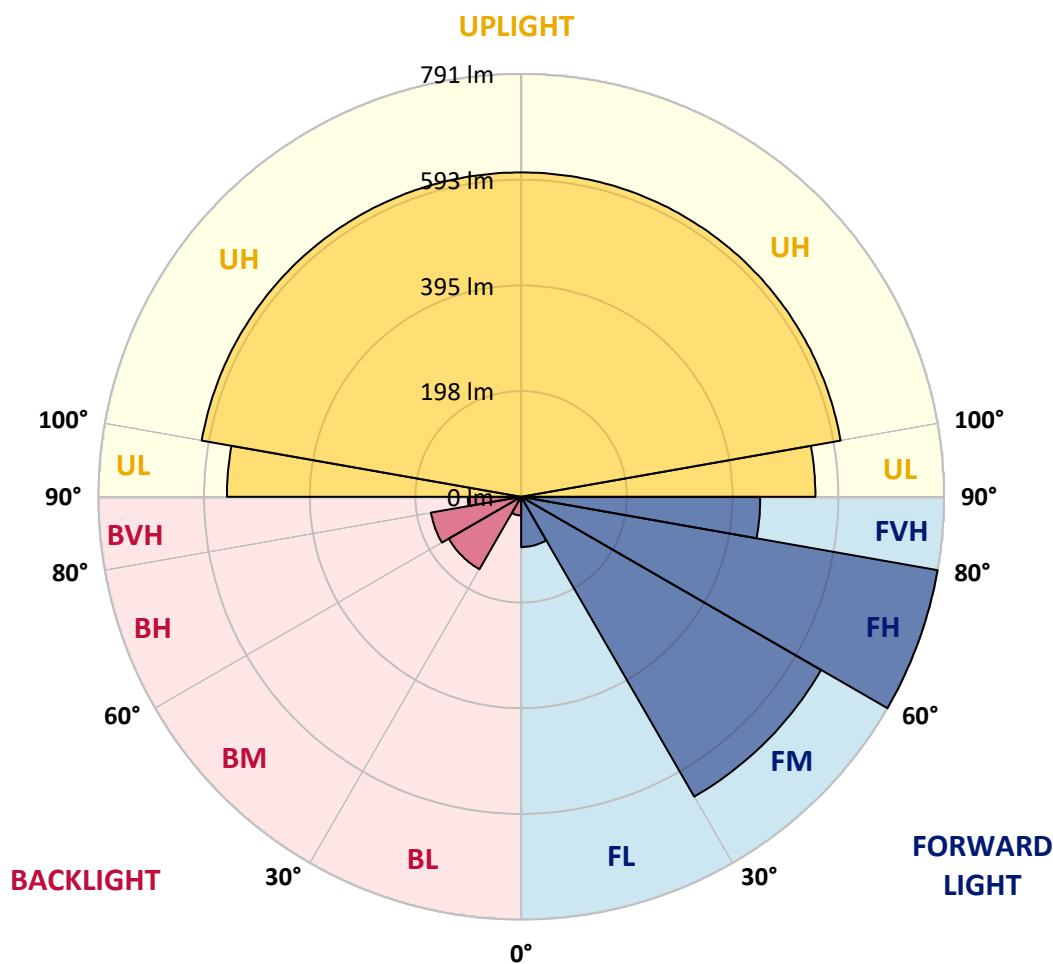
CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.9	1.8			
FM	(30°-60°)	647.3	12.7			
FH	(60°-80°)	790.6	15.5			G1/1800
FVH	(80°-90°)	447.0	8.7			G3/500
BL	(0°-30°)	34.8	0.7	B0/110		
BM	(30°-60°)	156.3	3.1	B0/220		
BH	(60°-80°)	171.2	3.3	B1/500		G1/500
BVH	(80°-90°)	99.9	2.0			G1/100
UL	(90°-100°)	550.1	10.8		U4/1000	
UH	(100°-180°)	606.6	11.9		U4/1000	

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°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	81.1	81.1	79.6	80.3	78.1	76.6	73.5	70.5	68.2	65.2	63.7
5°	103.1	101.6	100.0	98.5	94.7	91.0	87.2	81.9	76.6	71.2	68.2
7.5°	123.5	122.8	119.8	117.5	112.9	108.4	103.1	96.3	90.2	83.4	79.6
10°	144.0	143.2	140.2	137.9	132.6	128.1	121.3	113.7	106.1	97.0	92.5
12.5°	164.5	163.7	160.7	159.2	154.6	149.3	141.7	131.9	122.8	112.2	106.9
15°	185.7	185.7	184.9	181.9	176.6	171.3	163.7	152.3	141.0	128.1	122.0
17.5°	213.7	212.2	209.9	207.7	203.1	197.1	185.7	175.1	160.7	145.5	136.4
20°	242.5	241.0	239.5	236.5	230.4	224.3	213.0	200.1	181.9	163.7	152.3
22.5°	273.6	272.1	270.6	267.6	261.5	254.7	242.5	227.4	208.4	184.9	170.5
25°	307.7	307.7	305.4	302.4	295.6	288.8	274.4	257.7	235.7	207.7	191.8
27.5°	346.4	344.1	343.3	339.6	333.5	325.2	310.0	290.3	264.5	231.9	214.5
30°	385.0	384.3	383.5	379.0	372.1	363.0	345.6	325.2	294.1	256.2	235.7
32.5°	426.7	427.5	424.4	419.1	411.6	401.7	382.8	358.5	325.2	280.4	256.9
35°	471.4	470.7	466.1	462.3	452.5	440.4	419.1	391.9	354.0	303.9	277.4
37.5°	514.6	515.4	510.8	504.8	493.4	479.8	456.3	425.2	381.2	326.7	297.1
40°	559.4	560.1	554.8	545.7	533.6	517.7	491.9	457.8	409.3	348.6	314.5
42.5°	603.3	603.3	598.0	588.9	572.2	554.0	526.0	488.9	435.1	368.4	332.0
45°	645.0	645.0	638.2	626.8	608.6	588.2	557.8	516.9	458.5	386.5	347.1
47.5°	685.9	685.2	677.6	662.4	645.0	621.5	589.7	542.7	481.3	404.0	360.8
50°	723.8	723.8	713.2	696.5	674.6	651.1	617.0	567.7	502.5	419.9	373.7
52.5°	758.7	757.9	746.6	728.4	704.1	679.1	642.7	590.4	520.7	434.3	385.8
55°	790.5	789.8	776.9	756.4	731.4	704.1	666.2	611.7	538.9	447.9	396.4
57.5°	820.1	819.3	804.2	781.4	756.4	727.6	688.2	631.4	555.6	460.8	407.0
60°	846.6	845.1	829.9	804.9	778.4	748.8	709.4	650.3	570.7	472.2	416.9
62.5°	870.1	868.6	851.9	826.1	798.1	767.8	726.1	666.2	584.4	483.6	425.2
65°	891.3	889.8	873.1	845.1	816.3	785.2	742.8	681.4	597.3	493.4	434.3
67.5°	911.0	909.5	890.6	861.8	833.0	801.1	758.7	695.8	609.4	503.3	442.6
70°	929.2	926.2	906.5	877.7	846.6	814.0	772.3	708.7	620.7	512.4	450.2
72.5°	942.9	940.6	920.9	890.6	859.5	827.7	784.5	719.3	631.4	520.7	457.0
75°	955.0	953.5	933.0	901.9	870.1	837.5	795.1	728.4	639.7	529.0	463.9
77.5°	965.6	962.6	942.9	911.8	879.2	845.9	803.4	737.5	647.3	535.1	469.2
80°	973.2	970.9	950.4	918.6	886.0	852.7	810.2	744.3	653.3	540.4	473.7
82.5°	978.5	975.5	955.8	923.9	891.3	857.2	814.8	748.1	657.9	545.0	478.3
85°	981.5	979.2	958.8	927.7	894.4	860.3	817.8	751.9	661.7	548.7	481.3
87.5°	982.3	980.8	961.1	929.2	895.9	862.5	819.3	754.1	663.9	551.0	483.6
88°	983.0	980.0	961.1	929.2	896.6	862.5	819.3	754.9	663.9	551.8	484.3
90°	983.0	980.0	961.1	930.0	896.6	861.8	820.1	755.7	664.7	552.5	485.8
92.5°	980.8	978.5	959.5	929.2	895.9	861.0	819.3	754.9	665.5	554.0	487.4
95°	977.0	974.7	956.5	926.2	892.8	858.7	817.1	753.4	664.7	554.0	487.4
97.5°	970.9	968.6	951.2	920.9	888.3	854.2	812.5	750.4	662.4	553.3	487.4
100°	963.3	961.1	943.6	914.1	881.5	848.1	807.2	746.6	659.4	551.8	486.6
102.5°	953.5	950.4	933.8	905.0	873.9	840.5	800.4	739.7	654.9	548.7	485.1
105°	939.8	938.3	922.4	894.4	862.5	830.7	791.3	732.9	649.5	545.0	482.0
107.5°	927.0	924.7	908.8	881.5	851.9	820.8	782.2	724.6	643.5	541.2	479.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	911.8	909.5	893.6	867.8	838.3	808.7	770.8	715.5	636.7	536.6	477.5
112.5°	893.6	892.1	876.2	851.9	823.9	795.8	759.4	705.6	629.1	532.1	474.5
115°	875.4	873.1	858.0	835.2	808.0	781.4	746.6	694.3	620.0	526.8	471.4
117.5°	855.7	853.4	838.3	816.3	791.3	765.5	732.2	682.1	610.9	520.7	467.6
120°	833.0	831.5	817.1	796.6	773.8	748.8	716.2	669.3	601.0	514.6	463.9
122.5°	810.2	808.0	795.1	776.1	754.9	731.4	700.3	655.6	589.7	507.1	459.3
125°	785.2	783.7	771.6	754.1	734.4	712.5	682.9	638.9	577.5	499.5	454.0
127.5°	759.4	757.2	745.8	729.9	712.5	691.2	663.9	623.0	564.7	489.6	447.9
130°	731.4	729.9	719.3	704.9	687.4	668.5	642.7	604.1	549.5	479.0	439.6
132.5°	701.8	700.3	691.2	679.1	661.7	644.2	620.0	582.9	532.1	466.9	430.5
135°	671.5	670.8	662.4	651.1	635.1	619.2	595.7	561.6	514.6	454.0	419.9
137.5°	640.5	639.7	632.1	620.7	608.6	591.9	570.0	538.1	494.9	438.8	407.0
140°	607.1	606.3	600.3	589.7	576.8	563.1	541.9	513.1	472.9	421.4	393.4
142.5°	573.8	573.0	567.7	560.1	548.0	533.6	513.9	486.6	451.0	404.0	378.2
145°	541.2	540.4	535.9	528.3	516.9	504.0	485.1	461.6	428.2	385.8	363.0
147.5°	510.1	508.6	504.8	498.7	488.1	475.2	457.8	435.8	405.5	367.6	347.1
150°	476.7	476.0	471.4	466.9	456.3	445.7	429.0	410.0	382.0	347.9	329.7
152.5°	443.4	442.6	439.6	434.3	425.2	415.3	400.2	382.8	358.5	328.2	312.3
155°	410.8	410.0	407.0	403.2	394.1	385.0	371.4	355.5	333.5	307.7	293.3
157.5°	378.2	378.2	376.7	372.1	363.8	355.5	341.8	329.7	310.0	287.3	275.9
160°	346.4	346.4	345.6	341.1	334.2	326.7	314.5	302.4	287.3	267.6	257.7
162.5°	315.3	313.8	314.5	311.5	304.7	298.6	288.0	278.2	263.8	247.1	238.7
165°	285.7	285.0	285.7	282.7	276.6	271.3	261.5	253.9	241.8	227.4	221.3
167.5°	259.2	259.2	258.5	256.2	250.9	246.3	238.7	231.9	222.1	210.7	205.4
170°	235.7	234.2	235.0	232.7	228.9	225.1	218.3	212.2	204.6	195.5	191.8
172.5°	213.7	212.2	213.0	210.7	208.4	205.4	200.9	195.5	189.5	181.1	178.9
175°	194.0	193.3	193.3	191.8	190.2	188.0	183.4	180.4	176.6	172.1	170.5
177.5°	176.6	175.1	175.8	175.1	174.3	173.6	172.1	170.5	168.3	166.0	165.2
180°	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	62.2	59.1	55.3	51.5	47.7	44.7	43.2	40.9	40.9	39.4
5°	65.2	59.1	53.1	47.7	42.4	37.9	34.1	31.8	31.1	31.1
7.5°	75.8	69.0	61.4	54.6	48.5	43.2	38.7	34.9	33.3	32.6
10°	87.9	79.6	69.7	62.2	55.3	48.5	43.2	39.4	37.9	37.9
12.5°	100.8	90.2	78.8	69.0	59.9	53.1	47.7	44.7	43.2	42.4
15°	114.4	100.8	87.2	75.0	65.2	56.8	51.5	48.5	47.0	46.2
17.5°	128.1	111.4	95.5	81.1	69.0	60.6	53.8	49.3	47.7	47.7
20°	142.5	122.0	103.1	86.4	72.8	62.2	54.6	50.0	47.7	47.7
22.5°	159.2	134.2	110.7	91.7	75.8	64.4	56.1	50.8	47.7	47.7
25°	176.6	147.0	119.8	97.0	79.6	66.7	57.6	51.5	49.3	48.5
27.5°	196.3	159.9	128.8	102.3	83.4	69.0	59.1	53.1	50.0	50.0
30°	215.3	172.1	136.4	107.6	86.4	71.2	60.6	54.6	51.5	51.5
32.5°	233.4	184.2	143.2	112.2	89.4	73.5	62.9	56.1	53.8	53.1
35°	250.1	195.5	149.3	115.2	91.7	75.8	65.2	58.4	55.3	55.3
37.5°	266.0	205.4	154.6	118.2	94.0	77.3	67.5	60.6	57.6	57.6
40°	280.4	213.7	158.4	120.5	95.5	79.6	69.7	62.9	60.6	59.9
42.5°	294.1	220.6	161.4	122.0	97.0	81.9	72.0	65.9	62.9	62.9
45°	305.4	226.6	164.5	123.5	98.5	83.4	74.3	68.2	65.9	65.2
47.5°	316.1	231.9	166.0	125.1	100.0	85.6	76.6	71.2	69.0	68.2
50°	325.9	235.7	167.5	125.8	101.6	87.9	78.8	74.3	72.0	71.2
52.5°	335.0	239.5	168.3	126.6	103.1	89.4	81.9	76.6	74.3	74.3
55°	342.6	243.3	169.8	128.1	104.6	92.5	84.1	80.3	78.1	77.3
57.5°	350.9	246.3	171.3	128.8	106.9	94.7	87.2	83.4	81.1	80.3
60°	357.7	249.4	172.8	130.4	108.4	97.0	90.2	86.4	84.1	83.4
62.5°	364.6	251.6	173.6	131.9	110.7	100.0	93.2	89.4	87.2	86.4
65°	370.6	254.7	175.8	134.2	112.9	102.3	96.3	92.5	90.2	90.2
67.5°	376.7	257.7	177.4	135.7	116.0	105.4	99.3	95.5	93.2	93.2
70°	382.8	260.0	178.9	137.9	118.2	108.4	102.3	98.5	96.3	96.3
72.5°	388.1	263.0	181.1	141.0	121.3	111.4	105.4	101.6	99.3	99.3
75°	392.6	265.3	183.4	143.2	123.5	114.4	108.4	104.6	102.3	101.6
77.5°	397.9	268.3	186.5	145.5	126.6	117.5	111.4	107.6	104.6	104.6
80°	401.7	269.8	188.7	147.8	129.6	119.8	113.7	109.9	107.6	106.9
82.5°	405.5	272.9	191.0	150.1	131.9	122.0	116.0	112.2	109.9	109.1
85°	407.8	274.4	192.5	152.3	134.2	124.3	118.2	113.7	111.4	110.7
87.5°	410.0	276.6	194.8	154.6	136.4	126.6	120.5	116.0	112.9	112.2
88°	410.8	277.4	196.3	155.4	136.4	127.3	120.5	116.0	113.7	112.9
90°	412.3	278.9	197.8	156.9	137.9	128.1	122.0	116.7	114.4	113.7
92.5°	413.1	280.4	199.3	158.4	140.2	129.6	122.8	118.2	115.2	114.4
95°	414.6	282.0	201.6	160.7	141.7	131.1	123.5	119.0	116.0	115.2
97.5°	414.6	283.5	203.9	162.2	142.5	131.9	124.3	119.0	116.0	115.2
100°	414.6	285.0	206.2	163.7	144.0	131.9	124.3	119.0	116.0	115.2
102.5°	413.8	287.3	208.4	166.0	144.8	132.6	124.3	118.2	115.2	115.2
105°	413.1	288.8	210.7	168.3	146.3	132.6	123.5	117.5	114.4	114.4
107.5°	413.1	291.8	214.5	170.5	147.0	132.6	122.8	116.7	113.7	112.9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	412.3	294.8	219.0	174.3	149.3	133.4	122.8	116.0	112.2	112.2
112.5°	411.6	298.6	222.8	177.4	150.8	133.4	122.0	114.4	111.4	110.7
115°	412.3	302.4	228.1	181.1	153.1	134.2	121.3	113.7	109.9	109.1
117.5°	410.8	306.2	233.4	185.7	155.4	134.9	121.3	112.9	108.4	108.4
120°	410.0	310.0	238.7	191.8	158.4	135.7	120.5	111.4	107.6	106.9
122.5°	408.5	313.8	244.1	196.3	161.4	137.2	120.5	110.7	106.1	106.1
125°	406.3	316.1	247.8	200.1	163.7	137.9	120.5	110.7	105.4	104.6
127.5°	402.5	317.6	252.4	203.9	166.0	139.5	120.5	109.9	104.6	103.8
130°	397.9	318.3	254.7	206.9	168.3	140.2	121.3	109.9	104.6	103.8
132.5°	391.1	317.6	256.2	209.2	170.5	141.7	122.0	109.9	104.6	103.8
135°	384.3	315.3	256.9	210.7	172.1	143.2	122.8	109.9	104.6	103.8
137.5°	374.4	311.5	256.9	211.5	172.8	144.0	123.5	110.7	105.4	104.6
140°	363.8	305.4	253.9	211.5	173.6	145.5	125.1	112.2	106.1	105.4
142.5°	351.7	299.4	251.6	209.9	173.6	146.3	125.8	112.9	106.9	106.9
145°	338.8	291.8	247.1	209.2	173.6	147.0	127.3	114.4	108.4	108.4
147.5°	325.9	283.5	242.5	206.9	173.6	147.8	128.8	116.7	110.7	109.9
150°	311.5	272.9	235.7	202.4	172.1	147.8	129.6	118.2	112.2	111.4
152.5°	295.6	261.5	228.9	198.6	169.8	147.8	131.1	119.8	114.4	114.4
155°	279.7	249.4	220.6	193.3	168.3	148.6	133.4	122.8	117.5	117.5
157.5°	263.0	238.0	212.2	188.0	166.0	148.6	134.9	125.8	121.3	120.5
160°	247.1	225.9	203.9	181.9	163.7	148.6	136.4	128.1	124.3	123.5
162.5°	230.4	212.2	194.0	175.8	159.9	147.0	137.2	130.4	126.6	126.6
165°	213.7	199.3	182.7	169.0	156.1	146.3	137.9	131.9	128.8	128.8
167.5°	200.1	187.2	174.3	163.0	153.9	145.5	138.7	134.2	131.9	131.9
170°	186.5	176.6	167.5	159.2	151.6	144.8	140.2	137.2	134.9	134.9
172.5°	175.8	169.0	162.2	156.1	150.8	146.3	142.5	140.2	138.7	138.7
175°	168.3	163.7	159.9	155.4	152.3	149.3	147.0	145.5	144.8	145.5
177.5°	164.5	162.2	159.9	157.6	156.9	155.4	153.9	153.1	153.1	153.9
180°	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7

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