

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: P256825

Luminaire Tested: **ULA-A7-D-U-SYM-VMx-7030-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256825  
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-7030-BK  
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC  
Light Source: (90) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6792.5 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

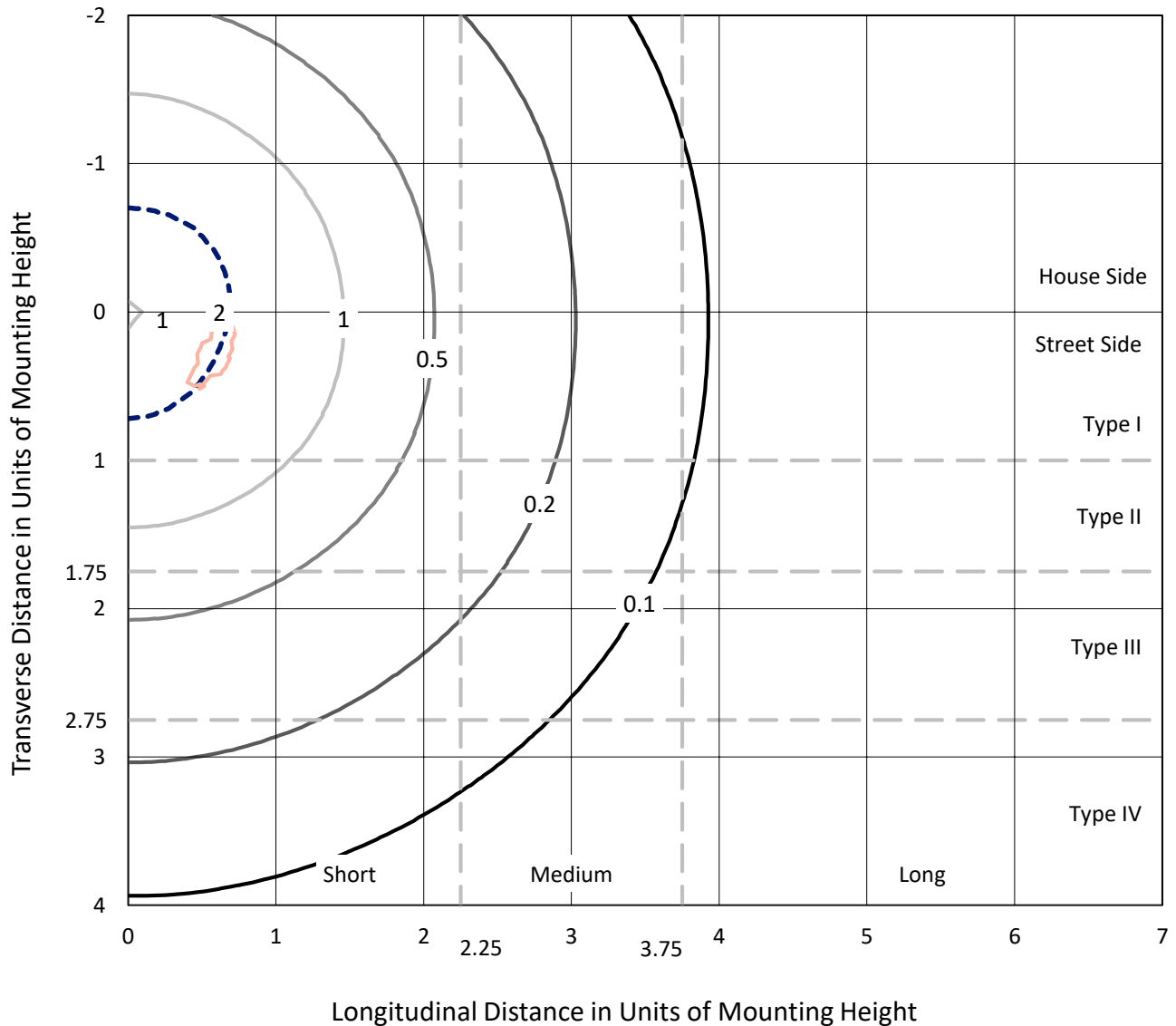
Input Watts (W): 54.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

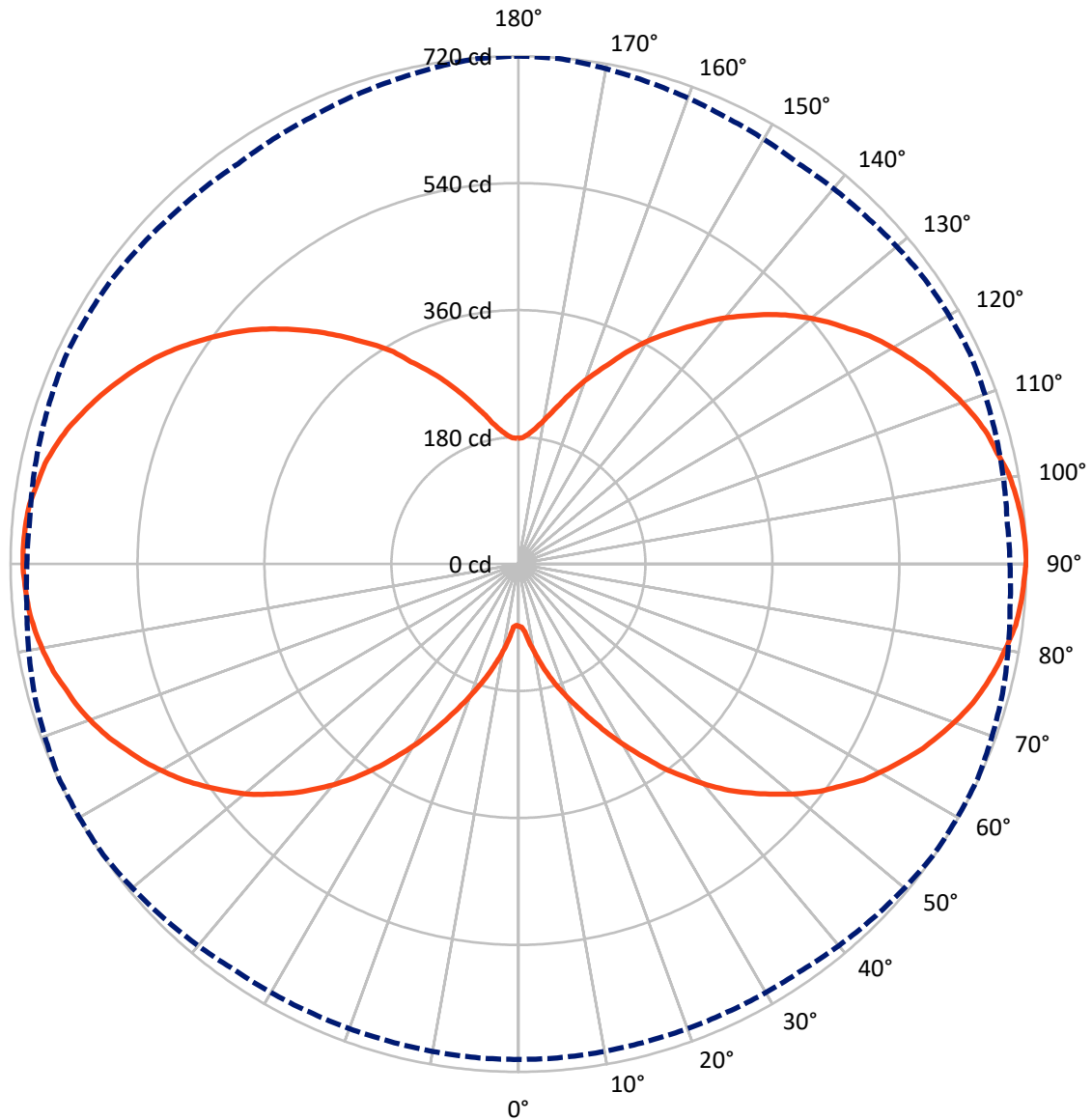
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral    - - - Horizontal Cone Through 90-Deg Vertical

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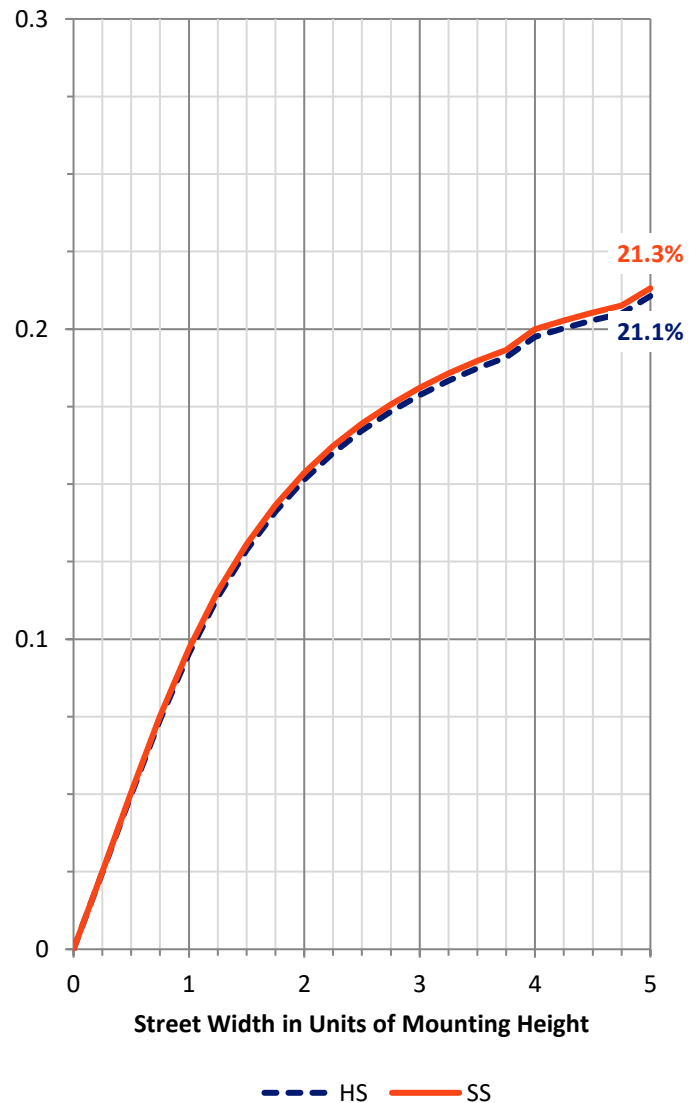
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1655.8	1722.1	3378.0
	% Fixture	24.4	25.4	49.7
<b>Street Side</b>	Lumens	1678.2	1736.3	3414.5
	% Fixture	24.7	25.6	50.3
<b>Total</b>	Lumens	3334.0	3458.5	6792.5
	% Fixture	49.1	50.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	47.2	0.7
20°-30°	116.6	1.7
30°-40°	225.8	3.3
40°-50°	358.5	5.3
50°-60°	492.5	7.3
60°-70°	613.0	9.0
70°-80°	708.0	10.4
80°-90°	762.4	11.2
90°-100°	766.0	11.3
100°-110°	715.6	10.5
110°-120°	621.8	9.2
120°-130°	503.7	7.4
130°-140°	374.1	5.5
140°-150°	248.4	3.7
150°-160°	143.5	2.1
160°-170°	67.2	1.0
170°-180°	18.2	0.3
0°-90°	3334.0	49.1
0°-180°	6792.5	100.0



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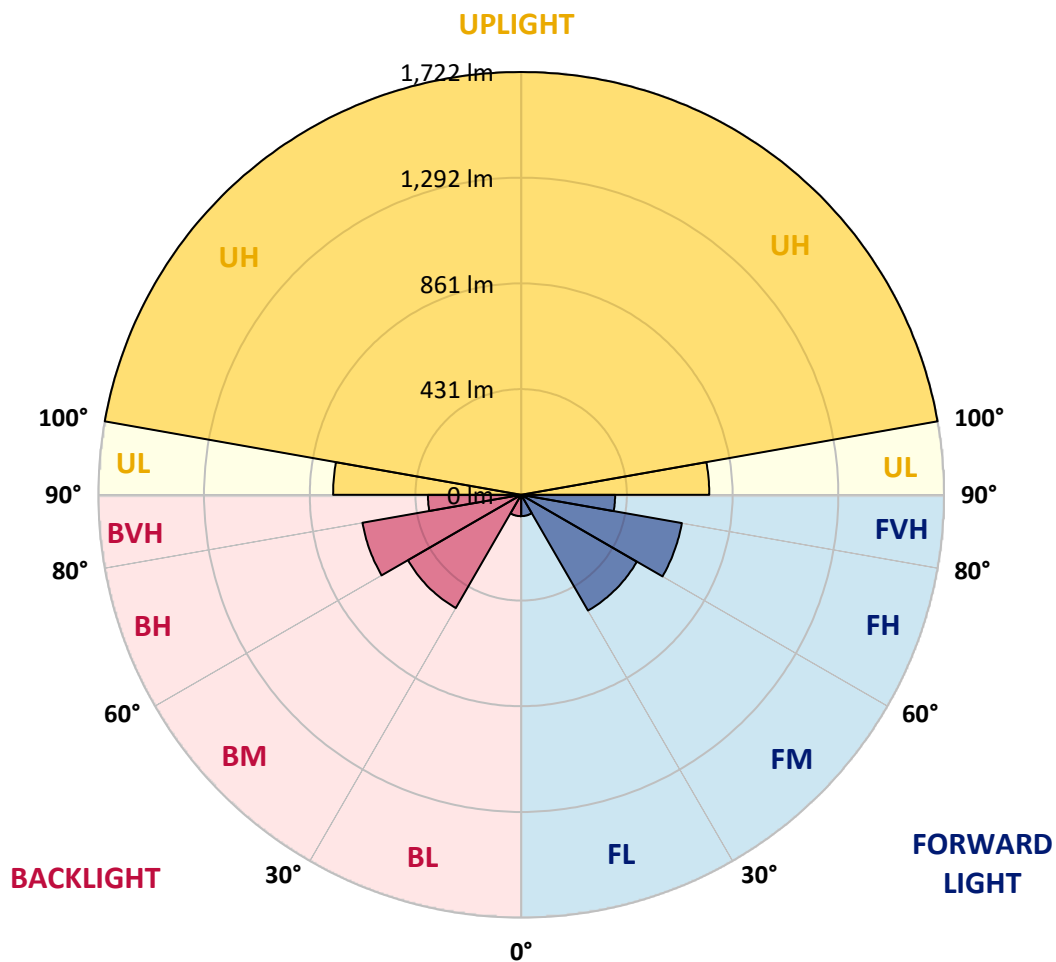
CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-7030-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.7	1.3			
FM (30°-60°)	544.3	8.0			
FH (60°-80°)	664.6	9.8			G1/1800
FVH (80°-90°)	382.6	5.6			G3/500
BL (0°-30°)	87.1	1.3	B0/110		
BM (30°-60°)	532.6	7.8	B1/1000		
BH (60°-80°)	656.4	9.7	B2/1000		G0/660
BVH (80°-90°)	379.8	5.6			G3/500
UL (90°-100°)	766.0	11.3		U4/1000	
UH (100°-180°)	1722.1	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°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	87.0	87.0	87.0	85.6	85.6	85.6	85.6	85.6	85.6	87.0	87.0
5°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	91.1	92.4	92.4	93.8
7.5°	106.0	104.6	104.6	104.6	104.6	104.6	104.6	106.0	107.4	108.7	108.7
10°	122.3	120.9	120.9	122.3	122.3	123.7	122.3	125.0	125.0	126.4	127.7
12.5°	138.6	137.3	138.6	140.0	141.3	141.3	142.7	144.1	144.1	145.4	145.4
15°	156.3	154.9	156.3	157.6	159.0	160.4	161.7	163.1	164.4	164.4	163.1
17.5°	175.3	173.9	175.3	176.7	178.0	179.4	182.1	183.5	183.5	183.5	183.5
20°	194.3	193.0	194.3	197.1	198.4	199.8	203.8	205.2	203.8	203.8	202.5
22.5°	216.1	214.7	216.1	218.8	222.9	224.2	226.9	228.3	226.9	226.9	225.6
25°	239.2	239.2	240.5	243.3	247.3	250.1	254.1	255.5	252.8	252.8	251.4
27.5°	265.0	265.0	266.4	270.4	273.2	277.2	282.7	282.7	281.3	279.9	278.6
30°	292.2	290.8	293.5	297.6	301.7	305.8	311.2	313.9	312.6	308.5	305.8
32.5°	319.4	318.0	320.7	326.2	331.6	335.7	341.1	342.5	341.1	337.0	334.3
35°	347.9	349.3	350.6	354.7	361.5	365.6	371.0	372.4	369.6	366.9	362.8
37.5°	376.4	376.4	379.2	383.2	390.0	394.1	399.5	400.9	399.5	394.1	391.4
40°	403.6	403.6	406.3	410.4	415.8	421.3	426.7	429.4	425.4	421.3	417.2
42.5°	429.4	429.4	432.2	434.9	440.3	447.1	452.5	455.3	452.5	445.7	441.7
45°	455.3	455.3	458.0	460.7	466.1	471.6	478.4	479.7	475.6	468.8	466.1
47.5°	478.4	478.4	481.1	483.8	489.2	496.0	501.5	502.8	498.7	491.9	487.9
50°	502.8	501.5	504.2	506.9	512.3	519.1	524.6	524.6	520.5	512.3	508.3
52.5°	523.2	524.6	524.6	527.3	532.7	538.2	544.9	546.3	540.9	531.4	528.6
55°	543.6	544.9	544.9	546.3	551.7	558.5	566.7	565.3	559.9	551.7	546.3
57.5°	564.0	564.0	565.3	565.3	569.4	577.6	585.7	584.4	578.9	569.4	565.3
60°	581.6	581.6	581.6	584.4	587.1	593.9	602.0	603.4	595.2	585.7	581.6
62.5°	599.3	599.3	599.3	600.7	603.4	610.2	619.7	619.7	610.2	600.7	596.6
65°	614.3	615.6	615.6	615.6	619.7	627.8	634.6	634.6	627.8	615.6	612.9
67.5°	630.6	630.6	629.2	629.2	633.3	640.1	649.6	649.6	641.4	629.2	626.5
70°	644.2	644.2	642.8	642.8	646.9	655.0	664.5	663.2	653.7	644.2	640.1
72.5°	656.4	657.7	655.0	655.0	659.1	667.3	676.8	675.4	665.9	655.0	652.3
75°	665.9	668.6	665.9	664.5	668.6	676.8	686.3	686.3	676.8	664.5	661.8
77.5°	676.8	678.1	675.4	675.4	678.1	687.6	695.8	695.8	687.6	675.4	671.3
80°	684.9	686.3	684.9	683.6	686.3	694.4	703.9	703.9	695.8	683.6	679.5
82.5°	691.7	691.7	690.4	690.4	693.1	701.2	709.4	709.4	701.2	690.4	687.6
85°	697.2	698.5	697.2	695.8	698.5	706.7	714.8	714.8	706.7	694.4	691.7
87.5°	699.9	701.2	699.9	699.9	701.2	709.4	717.5	716.2	709.4	697.2	694.4
90°	702.6	702.6	701.2	701.2	702.6	710.7	718.9	718.9	710.7	699.9	697.2
92.5°	702.6	703.9	702.6	702.6	703.9	709.4	717.5	718.9	710.7	699.9	697.2
95°	701.2	701.2	701.2	699.9	701.2	708.0	716.2	716.2	709.4	697.2	694.4
97.5°	698.5	698.5	697.2	697.2	698.5	705.3	712.1	712.1	705.3	694.4	691.7
100°	691.7	693.1	693.1	691.7	693.1	698.5	706.7	706.7	698.5	689.0	686.3
102.5°	686.3	684.9	684.9	684.9	684.9	690.4	698.5	697.2	690.4	680.8	678.1
105°	676.8	676.8	675.4	675.4	676.8	682.2	690.4	689.0	680.8	671.3	668.6
107.5°	665.9	665.9	664.5	664.5	665.9	671.3	679.5	678.1	670.0	660.5	657.7
110°	652.3	652.3	650.9	649.6	653.7	659.1	667.3	665.9	657.7	648.2	645.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	638.7	638.7	638.7	637.4	641.4	646.9	653.7	652.3	644.2	634.6	633.3
115°	623.8	623.8	622.4	622.4	627.8	633.3	640.1	637.4	629.2	621.0	618.3
117.5°	608.8	608.8	606.1	606.1	611.5	618.3	625.1	622.4	614.3	606.1	603.4
120°	592.5	592.5	589.8	589.8	596.6	603.4	610.2	607.5	599.3	589.8	588.4
122.5°	574.8	574.8	572.1	573.5	580.3	587.1	593.9	591.2	583.0	574.8	572.1
125°	555.8	555.8	554.5	555.8	562.6	569.4	576.2	573.5	565.3	558.5	554.5
127.5°	536.8	536.8	536.8	538.2	544.9	551.7	558.5	554.5	547.7	539.5	538.2
130°	517.8	517.8	516.4	519.1	525.9	532.7	538.2	536.8	528.6	521.8	519.1
132.5°	497.4	497.4	497.4	498.7	505.5	512.3	519.1	516.4	509.6	501.5	498.7
135°	475.6	475.6	477.0	478.4	485.2	491.9	497.4	494.7	489.2	481.1	477.0
137.5°	453.9	455.3	455.3	458.0	463.4	470.2	474.3	472.9	466.1	459.3	456.6
140°	432.2	432.2	433.5	436.2	441.7	447.1	449.8	448.5	444.4	437.6	433.5
142.5°	410.4	410.4	411.8	414.5	418.6	422.6	426.7	425.4	421.3	415.8	411.8
145°	388.7	388.7	390.0	392.7	396.8	399.5	403.6	402.3	398.2	392.7	388.7
147.5°	369.6	368.3	369.6	372.4	376.4	377.8	380.5	380.5	376.4	371.0	368.3
150°	349.3	349.3	350.6	352.0	354.7	357.4	358.8	358.8	354.7	349.3	346.5
152.5°	324.8	324.8	326.2	330.2	331.6	335.7	337.0	334.3	331.6	324.8	323.4
155°	305.8	305.8	305.8	308.5	309.8	311.2	312.6	311.2	308.5	304.4	303.1
157.5°	288.1	286.7	286.7	289.5	290.8	290.8	292.2	290.8	289.5	285.4	284.0
160°	269.1	269.1	269.1	270.4	270.4	273.2	273.2	271.8	269.1	267.7	265.0
162.5°	251.4	251.4	251.4	251.4	252.8	252.8	252.8	251.4	250.1	248.7	247.3
165°	233.7	233.7	233.7	233.7	233.7	235.1	235.1	233.7	232.4	231.0	231.0
167.5°	218.8	218.8	217.4	217.4	218.8	218.8	218.8	217.4	217.4	216.1	216.1
170°	203.8	205.2	205.2	203.8	203.8	203.8	203.8	203.8	203.8	202.5	202.5
172.5°	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	191.6	191.6
175°	184.8	184.8	184.8	183.5	184.8	184.8	184.8	183.5	183.5	183.5	183.5
177.5°	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4
180°	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	87.0	87.0	88.3	88.3	89.7	89.7	89.7	89.7	89.7	89.7
5°	93.8	93.8	95.1	95.1	95.1	96.5	96.5	96.5	96.5	96.5
7.5°	110.1	111.4	112.8	111.4	111.4	112.8	111.4	111.4	112.8	112.8
10°	126.4	127.7	129.1	129.1	129.1	129.1	129.1	129.1	129.1	127.7
12.5°	145.4	145.4	145.4	146.8	146.8	146.8	146.8	146.8	148.1	146.8
15°	163.1	163.1	163.1	164.4	164.4	164.4	164.4	165.8	167.2	165.8
17.5°	182.1	182.1	182.1	182.1	182.1	182.1	183.5	184.8	186.2	184.8
20°	202.5	202.5	201.1	201.1	201.1	201.1	202.5	203.8	203.8	203.8
22.5°	225.6	222.9	222.9	221.5	221.5	222.9	224.2	225.6	225.6	224.2
25°	250.1	247.3	244.6	246.0	244.6	246.0	247.3	248.7	248.7	247.3
27.5°	275.9	273.2	270.4	270.4	269.1	270.4	270.4	273.2	274.5	273.2
30°	303.1	300.3	296.3	296.3	294.9	294.9	297.6	299.0	300.3	299.0
32.5°	331.6	326.2	324.8	323.4	320.7	320.7	323.4	324.8	327.5	326.2
35°	361.5	357.4	352.0	349.3	349.3	350.6	352.0	353.3	357.4	356.1
37.5°	388.7	383.2	379.2	376.4	376.4	376.4	380.5	381.9	384.6	383.2
40°	414.5	409.0	405.0	402.3	402.3	402.3	406.3	407.7	411.8	411.8
42.5°	438.9	433.5	432.2	428.1	426.7	428.1	430.8	434.9	438.9	438.9
45°	462.0	458.0	455.3	452.5	451.2	452.5	455.3	460.7	464.8	463.4
47.5°	485.2	481.1	478.4	475.6	474.3	474.3	478.4	483.8	489.2	487.9
50°	506.9	502.8	500.1	498.7	497.4	497.4	501.5	506.9	513.7	512.3
52.5°	525.9	523.2	521.8	520.5	517.8	517.8	521.8	528.6	534.1	535.4
55°	544.9	542.2	542.2	539.5	538.2	538.2	542.2	549.0	554.5	555.8
57.5°	564.0	561.3	562.6	559.9	557.2	555.8	561.3	569.4	574.8	577.6
60°	580.3	578.9	578.9	577.6	574.8	573.5	578.9	587.1	593.9	595.2
62.5°	596.6	595.2	596.6	595.2	591.2	589.8	595.2	603.4	611.5	612.9
65°	611.5	610.2	614.3	611.5	607.5	606.1	611.5	621.0	629.2	630.6
67.5°	625.1	625.1	627.8	626.5	621.0	619.7	625.1	634.6	644.2	645.5
70°	638.7	640.1	644.2	641.4	636.0	634.6	638.7	649.6	659.1	660.5
72.5°	649.6	652.3	657.7	655.0	648.2	645.5	652.3	663.2	672.7	674.0
75°	661.8	663.2	667.3	665.9	660.5	656.4	663.2	674.0	683.6	684.9
77.5°	671.3	674.0	679.5	676.8	670.0	667.3	674.0	684.9	694.4	694.4
80°	679.5	683.6	687.6	686.3	679.5	675.4	682.2	693.1	702.6	702.6
82.5°	686.3	690.4	694.4	693.1	686.3	682.2	687.6	698.5	709.4	710.7
85°	691.7	695.8	701.2	699.9	691.7	687.6	693.1	705.3	713.5	714.8
87.5°	693.1	698.5	705.3	701.2	695.8	690.4	697.2	706.7	716.2	717.5
90°	695.8	701.2	706.7	703.9	697.2	693.1	698.5	708.0	718.9	720.3
92.5°	695.8	701.2	706.7	705.3	698.5	693.1	698.5	709.4	717.5	718.9
95°	694.4	699.9	705.3	703.9	695.8	691.7	697.2	706.7	716.2	716.2
97.5°	690.4	695.8	701.2	699.9	693.1	687.6	693.1	702.6	712.1	712.1
100°	684.9	690.4	697.2	695.8	687.6	683.6	687.6	698.5	706.7	706.7
102.5°	676.8	682.2	689.0	687.6	680.8	675.4	679.5	690.4	697.2	697.2
105°	668.6	672.7	679.5	678.1	671.3	665.9	671.3	680.8	689.0	690.4
107.5°	657.7	661.8	668.6	668.6	661.8	656.4	660.5	671.3	678.1	679.5
110°	645.5	649.6	655.0	655.0	649.6	644.2	648.2	657.7	667.3	667.3



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	631.9	636.0	641.4	641.4	634.6	630.6	634.6	645.5	653.7	653.7
115°	618.3	621.0	626.5	626.5	621.0	617.0	622.4	631.9	640.1	640.1
117.5°	603.4	606.1	610.2	611.5	606.1	602.0	607.5	615.6	625.1	625.1
120°	587.1	589.8	593.9	593.9	589.8	587.1	591.2	600.7	608.8	610.2
122.5°	572.1	573.5	576.2	576.2	572.1	570.8	574.8	585.7	592.5	593.9
125°	554.5	554.5	558.5	557.2	554.5	553.1	558.5	566.7	574.8	574.8
127.5°	536.8	536.8	538.2	538.2	535.4	534.1	540.9	549.0	555.8	557.2
130°	517.8	516.4	517.8	517.8	516.4	516.4	521.8	530.0	536.8	538.2
132.5°	497.4	496.0	496.0	496.0	496.0	496.0	501.5	509.6	516.4	517.8
135°	475.6	474.3	474.3	474.3	472.9	475.6	481.1	487.9	494.7	496.0
137.5°	455.3	452.5	452.5	451.2	452.5	455.3	459.3	466.1	472.9	472.9
140°	432.2	428.1	428.1	428.1	430.8	433.5	437.6	444.4	449.8	451.2
142.5°	410.4	406.3	405.0	406.3	407.7	410.4	415.8	422.6	426.7	426.7
145°	387.3	383.2	381.9	383.2	385.9	390.0	394.1	399.5	403.6	403.6
147.5°	366.9	362.8	361.5	361.5	365.6	369.6	373.7	379.2	381.9	381.9
150°	345.2	341.1	339.7	341.1	345.2	347.9	353.3	357.4	360.1	360.1
152.5°	322.1	318.0	316.6	318.0	320.7	324.8	330.2	334.3	338.4	337.0
155°	301.7	297.6	296.3	297.6	300.3	304.4	307.1	311.2	313.9	312.6
157.5°	282.7	279.9	278.6	279.9	282.7	285.4	288.1	290.8	293.5	292.2
160°	265.0	262.3	262.3	262.3	263.6	267.7	269.1	271.8	273.2	273.2
162.5°	247.3	244.6	244.6	246.0	247.3	250.1	251.4	252.8	252.8	252.8
165°	231.0	228.3	228.3	229.7	229.7	232.4	232.4	233.7	235.1	233.7
167.5°	216.1	214.7	213.4	214.7	216.1	217.4	217.4	217.4	218.8	217.4
170°	202.5	202.5	201.1	201.1	202.5	203.8	203.8	203.8	203.8	203.8
172.5°	191.6	191.6	191.6	191.6	193.0	193.0	193.0	193.0	193.0	193.0
175°	183.5	183.5	183.5	183.5	184.8	184.8	184.8	184.8	184.8	184.8
177.5°	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4	179.4
180°	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0

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