

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: P182349

Luminaire Tested: **LXF-E02-LED-E-U-SYM-BK-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182349
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34329)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF-E02-LED-E-U-SYM-BK-8030
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - SYMMETRIC
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.1 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

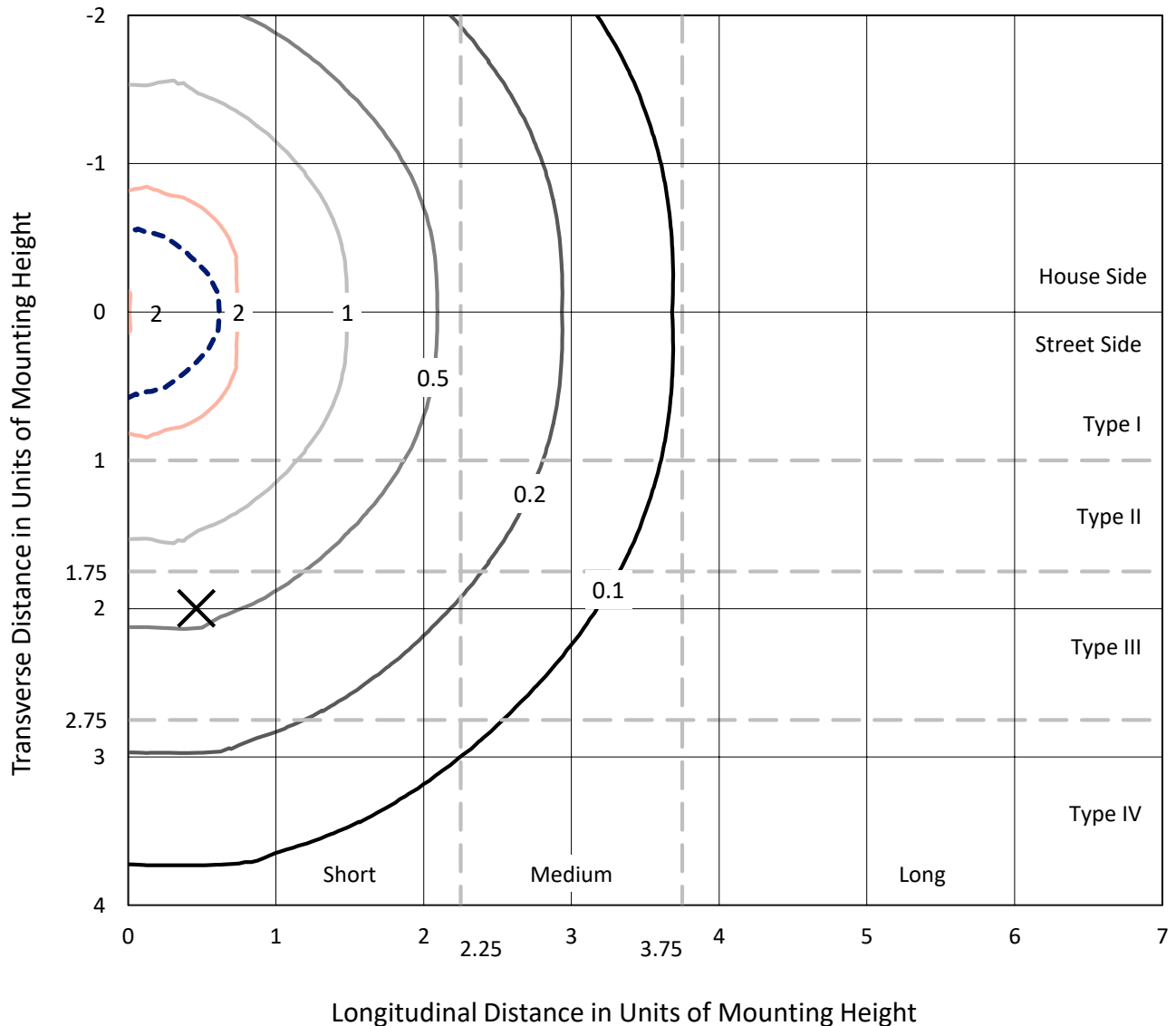
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-8030

Iso-Footcandle Lines of Horizontal Illumination

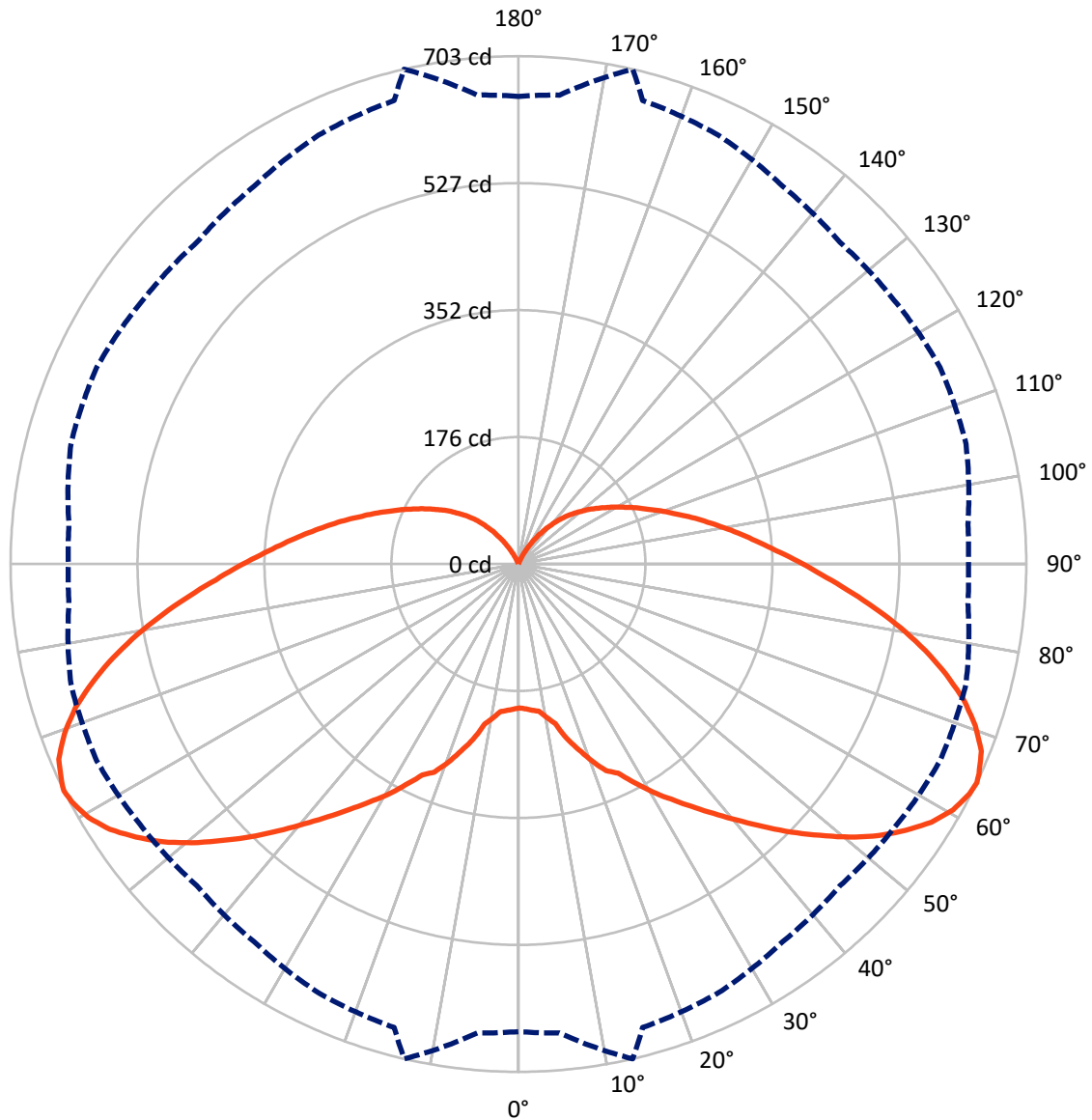
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 13-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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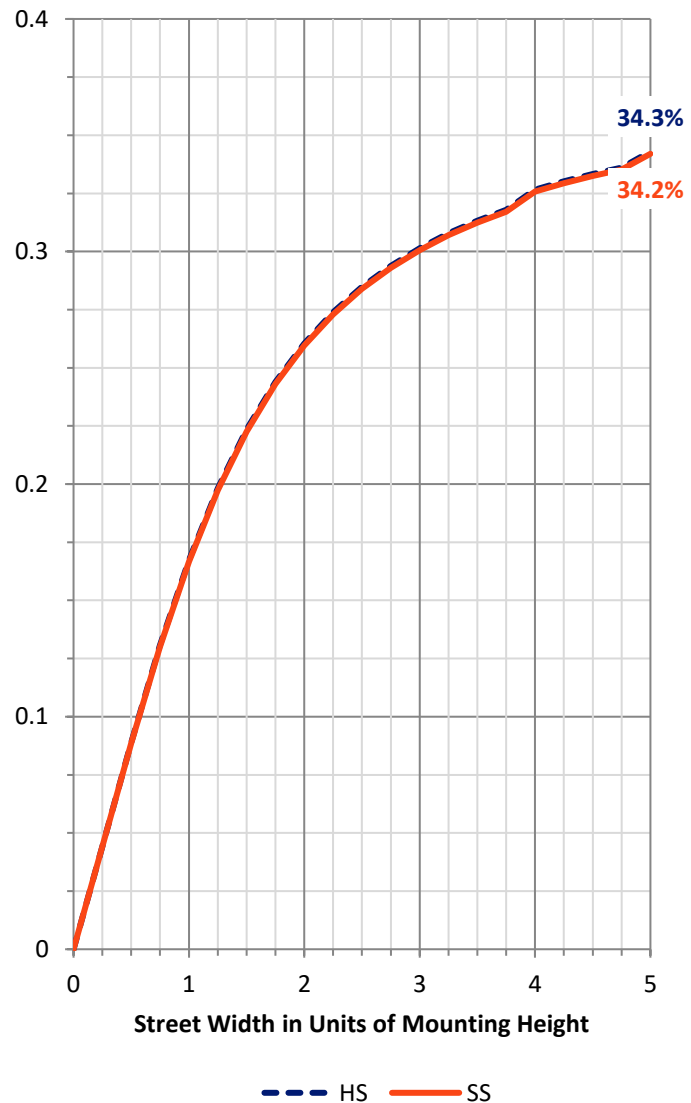
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.8	515.2	2084.0
	% Fixture	37.6	12.4	50.0
Street Side	Lumens	1568.8	515.2	2084.0
	% Fixture	37.6	12.4	50.0
Total	Lumens	3137.6	1030.4	4168.1
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	0.5
10°-20°	69.2	1.7
20°-30°	142.9	3.4
30°-40°	248.0	6.0
40°-50°	383.5	9.2
50°-60°	531.2	12.7
60°-70°	634.9	15.2
70°-80°	614.5	14.7
80°-90°	493.2	11.8
90°-100°	367.3	8.8
100°-110°	267.9	6.4
110°-120°	187.2	4.5
120°-130°	119.4	2.9
130°-140°	63.2	1.5
140°-150°	22.5	0.5
150°-160°	2.9	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3137.6	75.3
0°-180°	4168.1	100.0



REPORT NUMBER: P182349

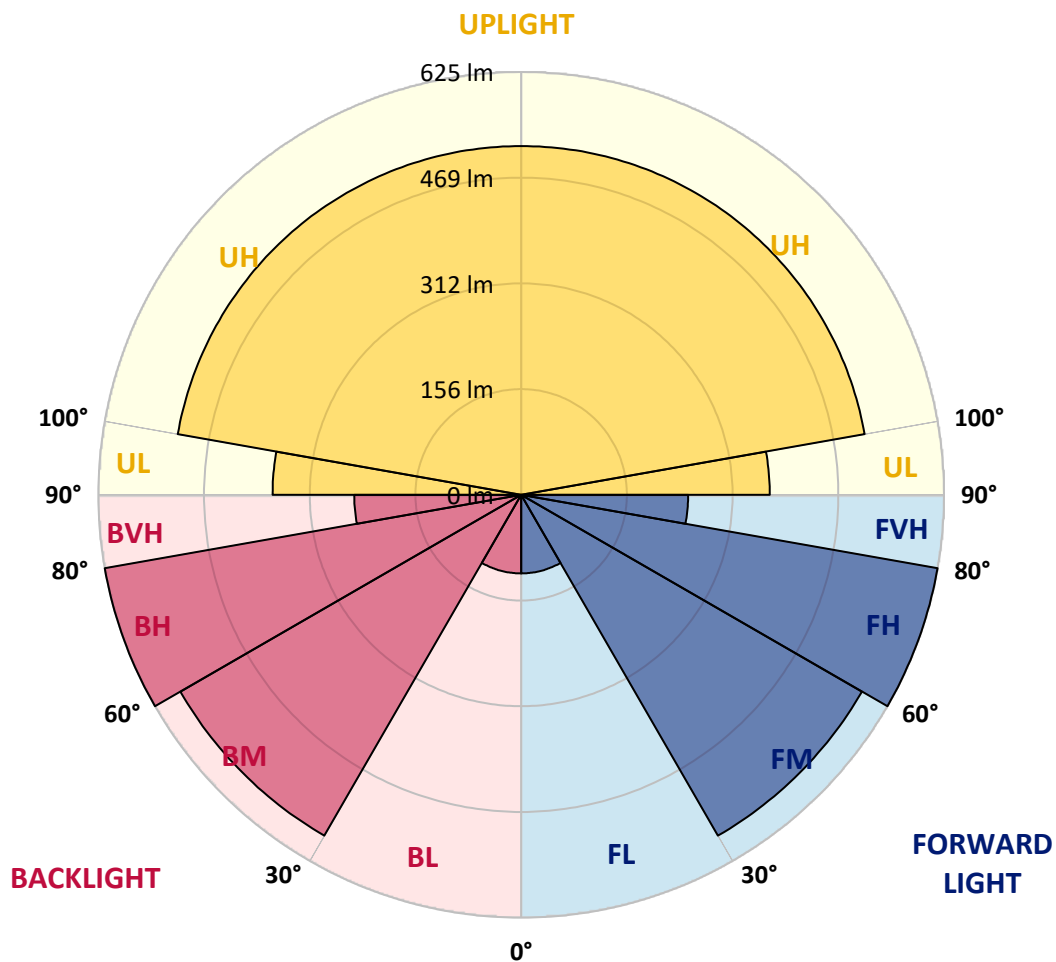
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.1	2.8			
FM (30°-60°)	581.4	13.9			
FH (60°-80°)	624.7	15.0			G0/660
FVH (80°-90°)	246.6	5.9			G3/500
BL (0°-30°)	116.1	2.8	B1/500		
BM (30°-60°)	581.4	13.9	B1/1000		
BH (60°-80°)	624.7	15.0	B2/1000		G0/660
BVH (80°-90°)	246.6	5.9			G3/500
UL (90°-100°)	367.3	8.8		U3/500	
UH (100°-180°)	515.2	12.4		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
0°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	199.2	199.2	200.9	199.2	200.0	200.9	200.0	200.0	200.9	200.9	200.9
5°	201.7	200.9	203.4	200.9	202.6	205.9	206.8	211.0	211.8	212.7	210.2
7.5°	203.4	203.4	205.9	202.6	207.6	213.5	215.2	213.5	217.7	221.1	216.1
10°	210.2	209.3	216.1	211.8	213.5	217.7	222.0	226.2	224.5	229.6	223.7
12.5°	218.6	219.4	227.0	221.1	227.9	229.6	228.7	230.4	228.7	232.1	231.3
15°	236.3	235.5	250.7	242.2	241.4	240.5	238.0	235.5	237.2	238.8	237.2
17.5°	252.4	253.2	270.1	259.1	264.2	259.1	248.1	244.8	246.4	249.0	251.5
20°	270.9	270.1	291.2	278.5	284.4	275.1	265.9	259.9	262.5	265.0	266.7
22.5°	287.8	288.6	310.6	294.6	296.2	292.9	285.3	281.9	278.5	280.2	281.0
25°	307.2	307.2	320.7	305.5	308.9	308.9	308.9	303.8	295.4	296.2	297.9
27.5°	328.3	328.3	342.7	326.6	327.5	331.7	330.8	326.6	316.5	314.8	317.3
30°	347.7	347.7	366.3	347.7	351.9	355.3	353.6	348.6	340.1	334.2	335.1
32.5°	368.0	368.0	388.2	368.8	374.7	379.0	378.1	373.9	362.9	352.8	352.8
35°	389.9	389.9	411.9	390.8	400.1	404.3	403.4	398.4	387.4	373.0	373.9
37.5°	414.4	413.6	438.0	415.2	424.5	427.9	427.1	422.0	412.7	395.8	395.8
40°	438.0	438.0	465.9	441.4	450.7	454.1	452.4	447.3	438.0	422.0	417.8
42.5°	464.2	463.4	497.1	469.3	476.9	479.4	476.0	471.8	464.2	449.0	442.3
45°	490.4	490.4	529.2	498.0	504.7	503.9	503.0	498.0	490.4	475.2	465.9
47.5°	519.1	518.2	561.3	526.7	532.6	529.2	526.7	522.4	515.7	501.3	489.5
50°	544.4	544.4	594.2	554.5	557.9	554.5	549.4	546.1	541.0	529.2	514.8
52.5°	572.2	571.4	624.6	581.5	583.2	576.4	569.7	568.8	565.5	554.5	539.3
55°	595.9	595.9	650.7	606.8	606.0	595.9	589.9	589.1	589.1	579.8	563.8
57.5°	617.0	617.8	674.3	629.6	625.4	613.6	606.0	606.8	610.2	603.5	585.7
60°	633.8	635.5	691.2	647.3	641.4	627.1	618.6	622.0	627.9	622.9	605.1
62.5°	644.8	648.2	700.5	660.0	651.6	635.5	627.1	632.1	638.9	636.4	619.5
64°	647.3	651.6	703.0	664.2	654.9	638.1	629.6	635.5	644.0	641.4	624.6
65°	647.3	652.4	700.5	665.1	656.6	638.1	629.6	636.4	645.7	643.1	625.4
67.5°	642.3	648.2	691.2	660.8	652.4	634.7	626.2	633.0	642.3	639.7	622.9
70°	627.1	634.7	671.0	648.2	640.6	623.7	616.1	622.0	631.3	629.6	611.9
72.5°	603.5	611.9	644.8	627.1	622.0	607.7	599.2	605.1	613.6	610.2	591.6
75°	572.2	582.4	611.9	600.1	598.4	585.7	579.0	584.0	589.1	581.5	561.3
77.5°	539.3	550.3	575.6	568.8	569.7	560.4	555.3	557.0	559.6	545.2	524.1
80°	504.7	512.3	536.8	532.6	537.6	531.7	526.7	526.7	523.3	508.9	483.6
82.5°	467.6	475.2	496.3	497.1	506.4	502.2	498.8	495.4	488.7	470.1	443.1
85°	428.7	435.5	456.6	459.1	470.1	470.9	468.4	464.2	454.1	433.0	403.4
87.5°	393.3	399.2	419.5	422.0	437.2	442.3	439.7	436.3	422.0	397.5	368.8
90°	362.1	366.3	387.4	389.1	406.0	414.4	413.6	406.0	391.6	365.4	336.8
92.5°	334.2	335.9	357.0	358.7	377.3	387.4	388.2	380.6	364.6	335.9	309.7
95°	308.1	310.6	330.8	330.8	351.9	363.8	364.6	357.0	338.4	311.4	286.1
97.5°	286.1	287.0	307.2	307.2	328.3	340.1	342.7	334.2	316.5	288.6	264.2
100°	265.0	265.0	284.4	284.4	305.5	319.0	321.6	312.3	293.7	265.9	243.9
102.5°	246.4	245.6	264.2	263.3	285.3	298.8	301.3	292.9	274.3	246.4	226.2
105°	229.6	228.7	244.8	243.9	265.9	280.2	283.6	274.3	254.0	227.0	211.0
107.5°	214.4	213.5	226.2	225.3	248.1	261.6	265.0	255.7	235.5	209.3	195.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
110°	200.0	198.3	210.2	208.5	230.4	243.9	247.3	238.0	218.6	193.3	184.0
112.5°	186.5	185.7	194.1	191.6	214.4	227.9	230.4	222.0	201.7	178.1	171.3
115°	174.7	173.9	180.6	177.2	196.6	210.2	214.4	205.1	184.8	164.6	160.4
117.5°	162.9	162.9	167.1	163.7	180.6	195.0	197.5	188.2	169.6	151.9	150.2
120°	151.9	151.1	155.3	150.2	164.6	178.1	180.6	171.3	154.5	140.9	140.9
122.5°	140.9	140.9	143.5	138.4	147.7	162.0	164.6	156.1	139.3	130.0	130.8
125°	130.8	130.0	132.5	125.8	131.7	144.3	147.7	140.1	125.8	119.8	121.5
127.5°	119.8	119.0	122.4	114.8	117.3	127.4	130.8	124.1	113.1	110.6	113.1
130°	108.9	108.0	111.4	103.8	102.1	109.7	113.9	108.0	100.4	101.3	104.7
132.5°	97.9	97.1	101.3	92.8	88.6	92.8	96.2	92.8	88.6	91.2	95.4
135°	86.9	86.9	91.2	81.9	76.0	76.8	78.5	77.6	76.8	82.7	86.1
137.5°	76.8	76.0	80.2	71.7	64.1	61.6	62.5	62.5	65.0	72.6	76.8
140°	65.0	65.0	68.4	60.8	52.3	47.3	47.3	48.1	54.0	62.5	66.7
142.5°	54.0	54.0	57.4	49.8	42.2	34.6	33.8	36.3	43.9	51.5	55.7
145°	43.9	43.0	45.6	39.7	32.1	23.6	21.1	25.3	33.8	41.4	45.6
147.5°	32.9	32.9	35.4	29.5	23.6	15.2	12.7	16.0	24.5	31.2	34.6
150°	23.6	22.8	25.3	20.3	15.2	9.3	5.1	9.3	16.0	21.1	24.5
152.5°	15.2	14.3	16.0	12.7	9.3	4.2	1.7	5.1	9.3	13.5	16.0
155°	7.6	7.6	8.4	6.8	4.2	1.7	0.8	1.7	4.2	6.8	8.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
0°	199.2
2.5°	200.9
5°	210.2
7.5°	216.1
10°	219.4
12.5°	230.4
15°	238.0
17.5°	250.7
20°	266.7
22.5°	281.9
25°	297.9
27.5°	317.3
30°	335.9
32.5°	353.6
35°	374.7
37.5°	395.8
40°	419.5
42.5°	440.6
45°	465.0
47.5°	490.4
50°	514.8
52.5°	540.2
55°	564.6
57.5°	586.6
60°	604.3
62.5°	617.8
64°	622.9
65°	622.9
67.5°	617.8
70°	606.0
72.5°	584.0
75°	552.0
77.5°	514.8
80°	473.5
82.5°	435.5
85°	395.8
87.5°	362.1
90°	331.7
92.5°	305.5
95°	283.6
97.5°	262.5
100°	243.1
102.5°	226.2
105°	211.8
107.5°	196.6



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CANDELA DISTRIBUTION (continued):

	90°
110°	184.0
112.5°	171.3
115°	161.2
117.5°	151.1
120°	140.9
122.5°	131.7
125°	122.4
127.5°	113.9
130°	105.5
132.5°	96.2
135°	86.9
137.5°	76.8
140°	66.7
142.5°	55.7
145°	45.6
147.5°	34.6
150°	24.5
152.5°	16.0
155°	8.4
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)