

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: P266009

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-20-D-U-T2U-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1986.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

Input Watts (W): 21
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

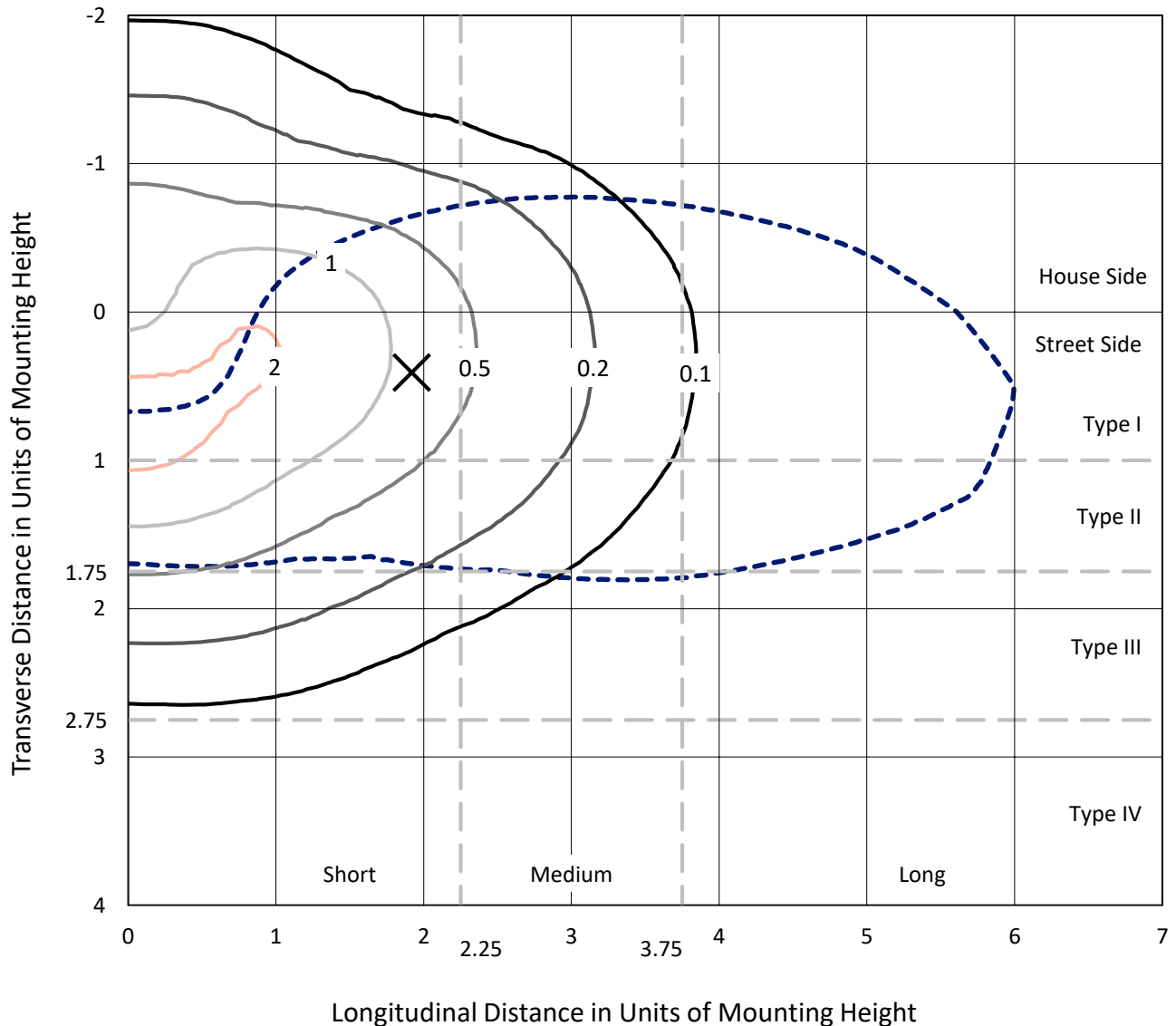


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

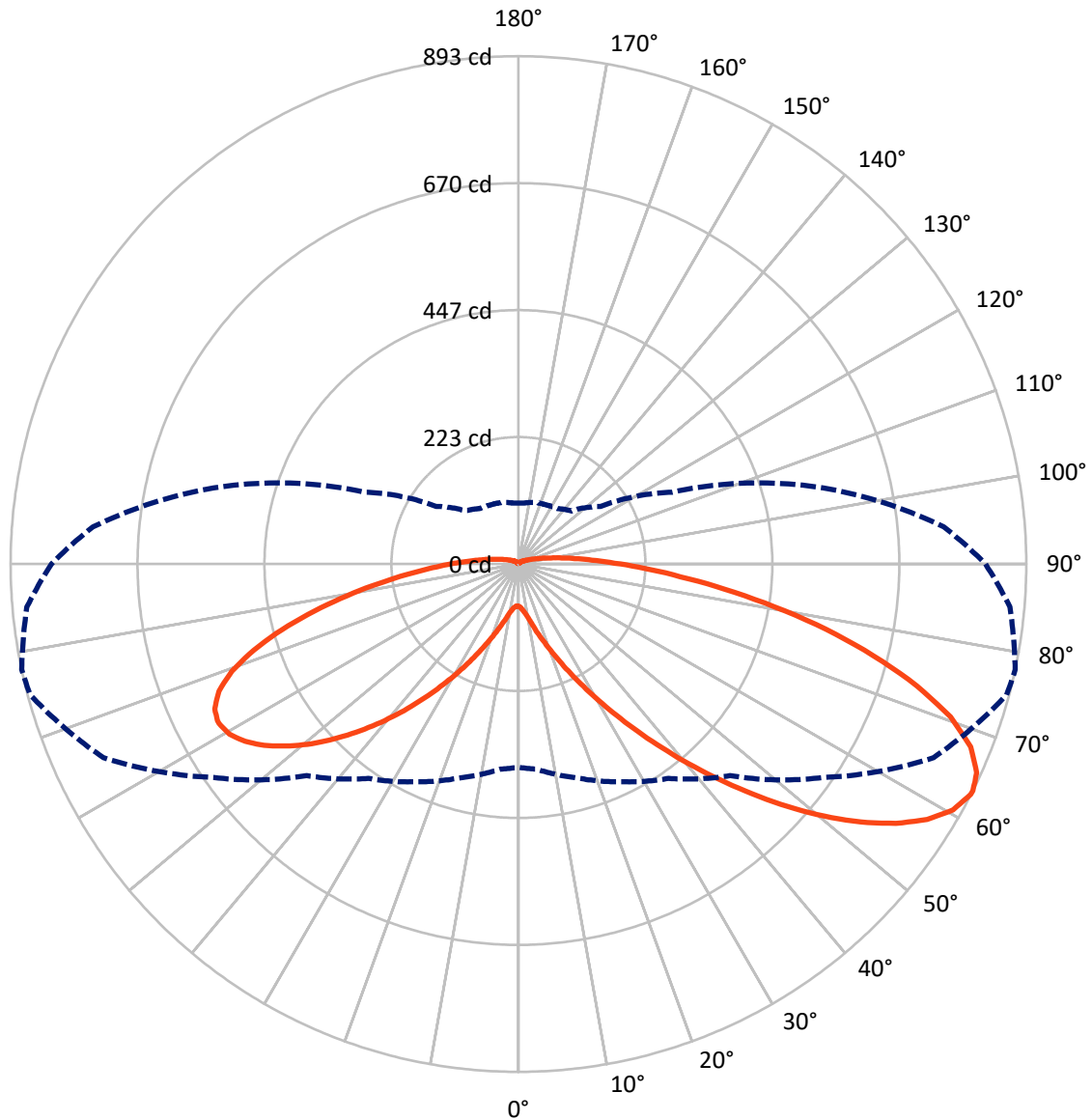


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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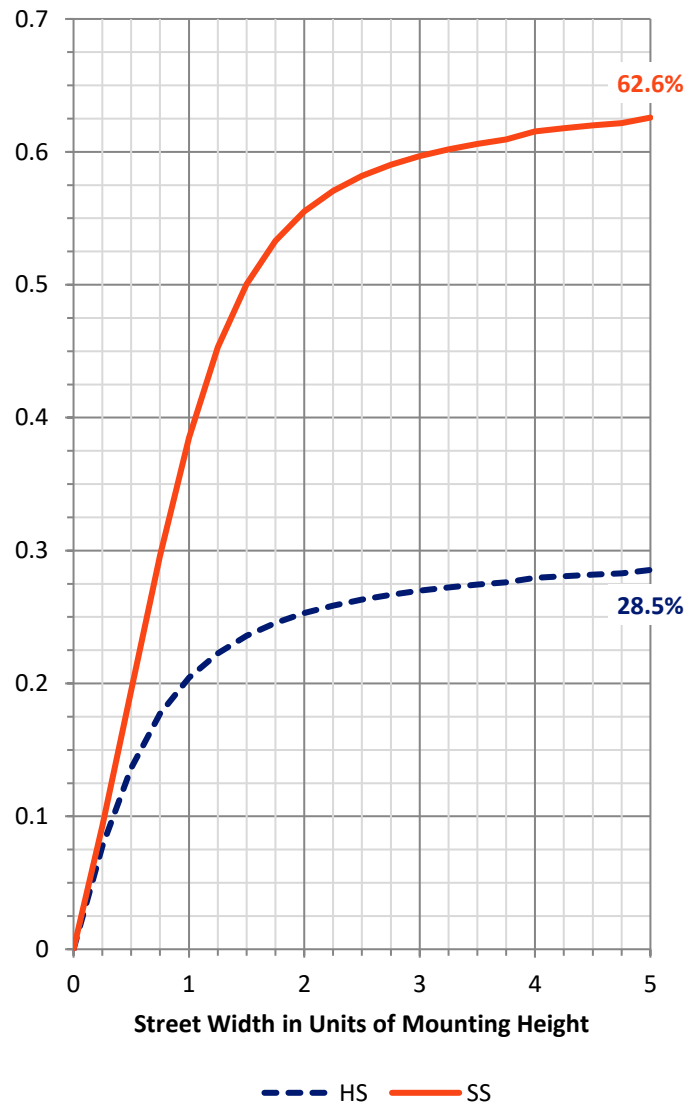
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.1	53.9	644.0
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	1275.7	66.8	1342.5
	% Fixture	64.2	3.4	67.6
Total	Lumens	1865.8	120.7	1986.5
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.4
10°-20°	33.8	1.7
20°-30°	88.5	4.5
30°-40°	183.7	9.2
40°-50°	309.5	15.6
50°-60°	406.8	20.5
60°-70°	402.8	20.3
70°-80°	286.8	14.4
80°-90°	145.9	7.3
90°-100°	63.5	3.2
100°-110°	29.1	1.5
110°-120°	14.8	0.7
120°-130°	7.9	0.4
130°-140°	3.9	0.2
140°-150°	1.4	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1865.8	93.9
0°-180°	1986.5	100.0



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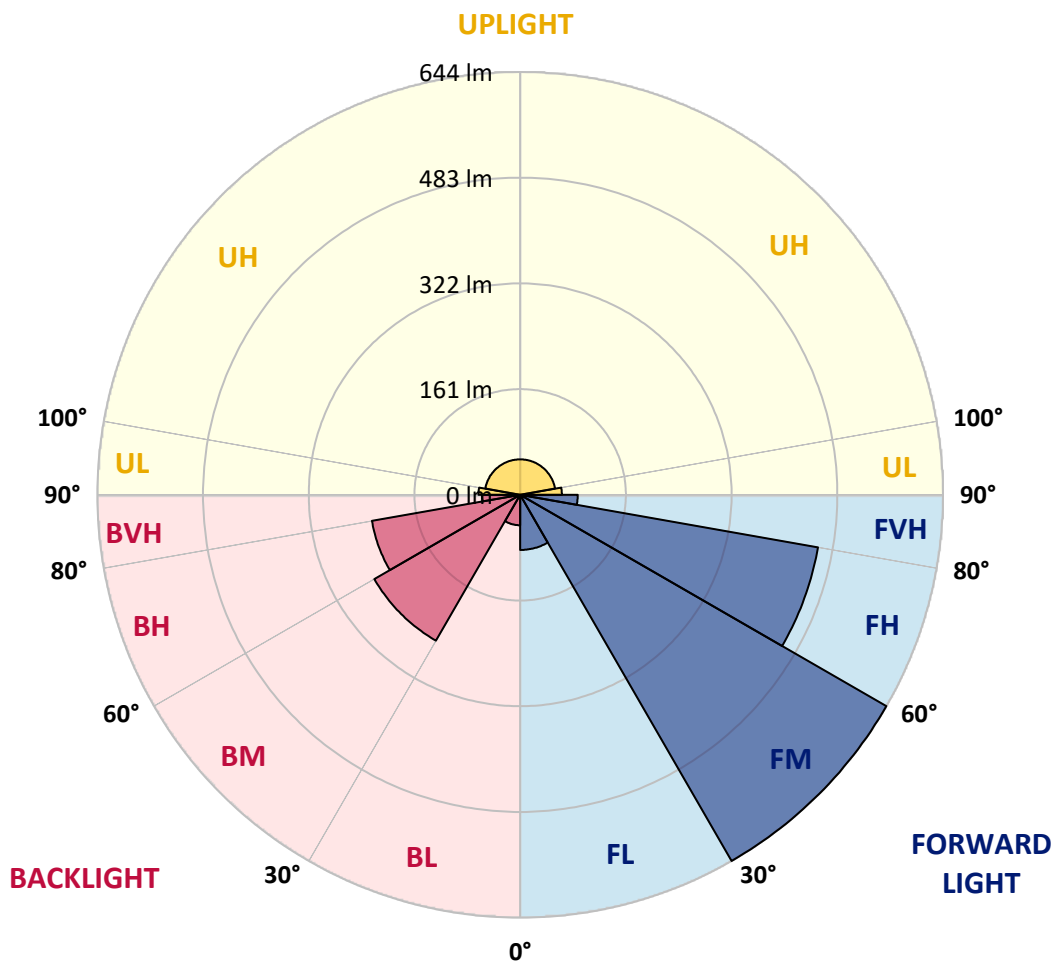
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	84.0	4.2			
FM (30°-60°)	643.7	32.4			
FH (60°-80°)	460.4	23.2			G0/660
FVH (80°-90°)	87.6	4.4			G1/100
BL (0°-30°)	46.3	2.3	B0/110		
BM (30°-60°)	256.3	12.9	B1/1000		
BH (60°-80°)	229.2	11.5	B1/500		G1/500
BVH (80°-90°)	58.3	2.9			G1/100
UL (90°-100°)	63.5	3.2		U3/500	
UH (100°-180°)	53.9	2.7		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	82.6	82.7	82.7	82.3	81.7	80.8	79.9	78.6	77.0	76.7	75.5
5°	92.3	92.5	92.3	91.4	90.4	88.8	86.9	84.7	81.7	81.6	79.4
7.5°	104.4	104.6	104.4	102.6	101.0	98.5	95.8	92.9	88.8	88.0	85.1
10°	119.1	119.7	118.9	117.5	114.7	111.0	107.6	103.1	98.9	97.1	93.6
12.5°	138.1	138.1	136.7	134.6	131.0	126.4	122.1	116.5	111.7	109.4	105.6
15°	159.2	159.4	157.6	154.9	151.1	144.1	139.3	133.6	127.6	125.5	120.0
17.5°	183.4	184.0	181.5	177.8	172.5	165.5	159.4	152.7	145.9	142.2	136.5
20°	211.8	211.8	209.1	204.1	197.4	189.7	182.0	174.4	166.6	162.4	156.3
22.5°	243.9	243.9	240.7	234.1	224.4	216.1	207.7	199.1	190.7	186.0	178.5
25°	281.1	282.4	276.5	268.1	257.4	245.5	237.2	227.1	218.0	213.0	204.5
27.5°	323.0	323.7	316.4	303.8	290.0	277.7	268.4	259.3	249.2	243.9	233.7
30°	368.1	366.7	360.0	345.0	326.9	312.0	302.6	294.3	282.7	278.7	267.6
32.5°	416.5	415.6	406.9	386.6	366.9	348.9	338.9	333.6	322.0	317.6	305.8
35°	467.7	466.0	455.6	434.3	408.4	388.7	379.7	377.0	366.5	361.8	347.7
37.5°	521.1	517.2	504.3	477.2	450.4	429.5	425.4	421.6	414.7	409.8	393.1
40°	563.7	562.1	549.1	520.8	491.8	474.3	471.7	474.3	467.7	462.1	442.8
42.5°	598.4	597.2	586.9	559.0	530.0	513.9	516.9	525.4	523.3	517.8	496.1
45°	622.3	621.1	613.7	589.6	563.1	551.3	564.2	580.1	581.6	577.0	551.6
47.5°	630.7	630.0	625.8	608.4	588.0	585.2	610.8	635.7	641.7	637.8	609.1
50°	619.9	620.4	621.8	613.9	601.4	609.6	647.5	688.7	701.7	697.4	666.7
52.5°	592.2	593.8	600.7	603.4	601.4	622.3	678.2	736.7	758.8	753.9	722.3
55°	549.5	551.7	564.0	577.7	587.5	621.4	697.4	777.3	809.0	805.5	772.7
57.5°	493.3	498.1	514.6	538.9	558.7	606.4	703.0	805.1	849.8	847.6	815.7
60°	431.1	435.3	458.0	489.7	518.5	577.5	690.8	817.1	877.7	878.5	848.2
62.5°	369.6	374.1	401.0	433.8	470.5	535.7	662.4	809.8	889.2	892.8	866.7
63°	357.5	362.1	389.0	422.6	460.4	526.3	654.7	805.8	889.2	893.4	867.9
65°	311.1	315.3	342.0	377.0	417.1	485.7	617.6	781.7	879.6	885.9	866.0
67.5°	256.8	261.3	288.3	322.9	361.4	428.0	559.0	732.4	846.8	858.1	845.3
70°	211.0	215.9	240.2	272.9	308.8	369.6	492.1	666.0	794.0	806.3	801.5
72.5°	173.8	178.0	201.8	229.2	261.3	315.3	423.6	585.9	718.5	733.3	736.3
75°	141.9	146.2	167.4	191.9	220.2	265.4	357.0	501.3	625.0	645.6	653.7
77.5°	115.8	120.0	138.6	160.0	184.0	221.2	295.9	417.4	529.0	554.0	564.6
80°	94.5	98.4	113.6	133.0	153.5	183.4	242.5	336.2	434.2	456.6	467.7
82.5°	76.7	80.0	93.6	110.5	127.7	152.1	197.8	269.0	346.7	365.7	371.7
85°	61.9	64.8	76.7	91.5	106.2	125.0	160.0	212.7	271.2	286.1	293.6
87.5°	49.3	51.8	62.6	75.5	88.0	105.0	129.4	169.5	209.8	220.9	225.7
90°	40.1	42.0	50.8	61.9	73.1	85.6	105.0	132.0	161.3	169.3	172.7
92.5°	32.6	34.0	42.0	51.1	61.2	72.5	85.6	104.4	124.2	129.4	131.6
95°	27.4	27.8	34.8	42.7	50.8	60.5	70.0	83.0	95.8	99.5	100.5
97.5°	22.3	23.0	29.0	36.2	43.2	50.3	57.3	66.5	74.6	76.7	77.0
100°	19.1	19.5	24.4	30.9	36.9	42.7	47.7	53.2	58.0	58.7	59.3
102.5°	16.3	16.6	20.9	26.9	31.9	36.7	40.6	43.7	45.5	45.9	45.9
105°	14.2	14.5	18.0	23.3	27.8	31.4	34.6	35.8	36.2	36.0	36.0
107.5°	12.8	12.8	15.8	20.4	24.4	27.6	29.6	29.7	29.0	28.6	28.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	11.3	11.5	14.0	18.2	21.7	24.3	25.6	25.0	23.4	23.0	23.0
112.5°	10.3	10.6	12.2	16.1	19.1	21.6	22.3	21.1	19.1	18.8	19.0
115°	9.6	9.6	11.0	14.2	17.2	19.1	19.5	18.0	15.8	15.6	15.8
117.5°	8.9	8.9	9.8	12.8	15.4	17.0	17.0	15.4	13.5	12.9	13.1
120°	8.4	8.4	9.2	11.3	13.7	15.1	14.8	13.1	11.3	11.3	11.5
122.5°	7.9	7.9	8.4	10.2	12.2	13.5	13.1	11.3	9.6	9.6	9.8
125°	7.5	7.5	7.6	9.2	10.8	11.8	11.5	9.6	8.4	8.4	8.7
127.5°	6.9	6.9	7.1	8.2	9.6	10.3	9.8	8.2	7.5	7.5	7.6
130°	6.6	6.6	6.6	7.1	8.4	9.2	8.4	6.9	6.5	6.5	6.6
132.5°	6.3	6.3	6.3	6.5	7.1	7.6	7.1	6.0	5.7	5.7	6.0
135°	6.0	6.0	5.7	5.7	6.3	6.5	5.7	5.0	5.0	5.0	5.3
137.5°	5.5	5.5	5.3	5.0	5.3	5.3	4.9	4.1	4.3	4.3	4.5
140°	5.0	5.0	4.9	4.3	4.1	4.1	3.7	3.4	3.7	3.7	3.9
142.5°	4.3	4.3	4.1	3.7	3.1	2.9	2.6	2.6	2.9	2.9	3.1
145°	3.7	3.7	3.4	2.9	2.3	2.2	1.9	1.9	2.2	2.2	2.3
147.5°	2.9	2.9	2.6	2.2	1.6	1.2	1.2	1.4	1.6	1.6	1.6
150°	2.3	2.3	2.2	1.6	1.0	0.7	0.4	0.7	1.0	1.0	1.0
152.5°	1.6	1.6	1.4	1.0	0.7	0.2	0.2	0.4	0.7	0.7	0.7
155°	1.0	1.0	0.7	0.4	0.2	0.2	0.2	0.2	0.4	0.4	0.4
157.5°	0.4	0.4	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	75.1	74.6	73.4	72.1	71.2	70.4	70.0	69.3	69.1	68.8	68.8
5°	78.2	77.0	74.7	72.7	70.7	69.1	67.6	66.5	65.7	65.2	65.4
7.5°	83.3	81.2	78.2	74.7	71.8	69.3	67.2	65.7	64.5	63.8	63.8
10°	91.1	88.6	83.7	79.0	75.1	71.4	68.8	66.7	65.2	64.5	64.5
12.5°	102.3	99.1	92.3	85.6	80.4	75.5	72.1	70.0	69.6	68.8	68.8
15°	115.8	111.7	103.7	95.0	87.8	81.2	78.4	76.4	75.3	74.3	74.3
17.5°	131.6	126.4	116.2	105.6	96.7	89.9	85.1	82.6	81.0	80.4	80.4
20°	149.8	143.4	130.8	117.5	106.4	99.4	92.9	88.8	87.2	86.5	86.3
22.5°	170.9	163.1	147.7	131.2	118.2	108.7	101.0	95.0	93.2	92.5	92.0
25°	196.2	187.2	166.9	146.8	130.8	117.5	108.2	101.5	99.1	98.4	98.1
27.5°	224.4	213.6	188.7	164.0	142.4	125.5	114.4	107.4	104.4	103.3	103.7
30°	256.1	243.4	212.7	181.5	154.0	132.6	119.5	112.0	108.7	107.6	107.6
32.5°	291.4	274.6	238.9	200.1	164.7	138.6	123.7	116.2	112.0	111.3	111.3
35°	330.2	312.7	267.2	218.6	174.4	143.4	126.9	119.1	114.9	113.9	113.9
37.5°	374.9	351.7	297.1	236.8	182.4	147.1	129.0	121.1	116.8	115.3	115.3
40°	420.1	393.5	328.3	253.7	189.5	149.2	130.3	122.1	117.9	116.2	115.8
42.5°	469.9	436.4	360.2	269.3	194.3	150.3	130.4	122.8	118.4	116.2	115.6
45°	521.3	485.4	389.8	282.7	197.8	150.3	130.3	122.6	118.4	115.3	114.9
47.5°	573.4	532.6	420.3	294.0	199.6	149.7	129.7	122.3	118.2	114.4	113.9
50°	627.6	579.9	449.4	302.9	199.2	148.2	128.5	121.6	117.3	113.1	112.6
52.5°	678.4	623.2	476.0	309.1	197.8	146.1	127.1	120.8	116.5	112.0	111.5
55°	727.8	666.9	499.1	312.5	194.8	143.4	125.7	120.0	115.8	110.9	110.5
57.5°	767.6	703.6	517.1	312.3	190.3	140.0	124.0	118.7	114.9	110.1	109.7
60°	800.3	733.0	528.6	308.7	184.6	136.7	122.1	117.3	113.9	109.1	108.3
62.5°	819.4	749.6	531.4	300.9	178.0	132.9	119.5	115.2	112.3	107.9	107.2
63°	821.6	751.2	530.7	299.0	176.4	132.0	118.9	114.9	112.0	107.6	107.0
65°	821.0	750.7	523.7	289.3	170.3	128.1	116.5	112.6	110.3	106.2	105.6
67.5°	802.1	732.4	504.0	272.9	161.2	123.0	112.6	109.7	107.2	103.7	102.9
70°	761.7	693.5	471.0	252.6	151.1	117.3	107.9	105.6	103.1	99.7	98.9
72.5°	701.7	636.2	426.6	230.8	140.6	110.5	102.6	100.3	98.4	95.4	93.8
75°	623.6	563.5	375.3	206.3	129.0	103.7	96.2	94.2	91.8	89.2	87.8
77.5°	532.6	480.7	321.1	181.1	117.3	95.7	89.2	87.0	84.9	82.0	80.0
80°	440.8	397.1	267.3	156.7	105.6	87.2	81.6	79.6	77.0	73.9	72.0
82.5°	353.6	319.4	218.6	134.0	94.1	79.0	73.7	71.2	68.4	65.2	64.0
85°	276.0	251.0	176.2	113.6	82.7	70.4	65.7	63.3	59.6	56.1	54.6
87.5°	213.0	194.8	141.6	95.7	72.5	62.3	57.5	54.6	51.4	47.7	46.5
90°	163.3	150.8	113.1	80.6	63.2	54.2	50.3	47.7	43.8	40.2	39.3
92.5°	125.1	116.8	90.9	67.8	54.0	47.5	44.1	41.2	37.4	33.9	33.1
95°	96.2	90.6	73.4	56.9	46.7	41.5	38.5	35.6	31.7	28.2	27.6
97.5°	74.6	70.7	59.3	48.0	40.6	36.2	33.9	30.7	26.9	23.7	23.3
100°	57.9	55.3	48.1	40.2	35.3	31.7	29.3	26.6	23.0	19.7	19.7
102.5°	45.0	43.7	39.5	34.6	30.7	28.0	26.0	23.0	19.5	16.8	16.6
105°	35.8	35.0	32.6	29.6	26.9	24.8	22.7	19.9	16.6	14.2	14.2
107.5°	28.6	28.2	27.0	25.2	23.4	21.7	20.1	17.2	14.2	12.2	12.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.3	23.3	22.7	21.6	20.7	19.1	17.4	15.1	11.9	10.6	10.6
112.5°	19.1	19.5	19.1	18.8	18.2	17.0	15.6	12.9	10.3	9.3	9.3
115°	16.1	16.3	16.3	16.3	16.1	15.1	13.7	11.3	8.9	8.2	8.2
117.5°	13.7	14.0	14.2	14.2	14.0	13.1	11.9	9.8	7.6	7.1	7.5
120°	11.8	11.9	12.2	12.4	12.2	11.8	10.3	8.4	6.6	6.5	6.5
122.5°	10.3	10.6	10.6	10.8	10.8	10.3	9.2	7.1	5.7	5.7	5.7
125°	8.9	9.2	9.3	9.3	9.6	8.9	7.6	6.0	5.0	5.0	5.3
127.5°	7.9	7.9	7.9	8.2	8.2	7.6	6.6	5.0	4.3	4.5	4.5
130°	6.9	6.9	7.1	7.1	7.1	6.6	5.5	4.3	3.9	4.1	4.1
132.5°	6.0	6.3	6.3	6.0	6.0	5.7	4.5	3.7	3.4	3.7	3.7
135°	5.3	5.5	5.5	5.0	5.0	4.5	3.9	2.9	3.1	3.1	3.4
137.5°	4.5	4.9	4.5	4.3	4.1	3.9	3.1	2.3	2.6	2.9	2.9
140°	3.9	3.9	3.9	3.7	3.4	2.9	2.3	1.9	2.3	2.3	2.3
142.5°	3.1	3.1	3.1	2.9	2.3	2.2	1.6	1.6	1.9	1.9	1.9
145°	2.3	2.3	2.3	2.2	1.6	1.4	1.2	1.2	1.4	1.6	1.6
147.5°	1.6	1.6	1.6	1.4	1.0	0.7	0.7	1.0	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.0	0.7	0.4	0.4	0.7	0.7	1.0	1.0
152.5°	0.7	1.0	1.0	0.7	0.4	0.2	0.2	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.7	0.4	0.4	0.2	0.0	0.0	0.2	0.2	0.2
157.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
162.5°	0.2	0.2	0.2	0.2	0.2	0.2	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

(END OF REPORT)