

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: P266021

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T4W-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
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-T4W-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1965.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

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

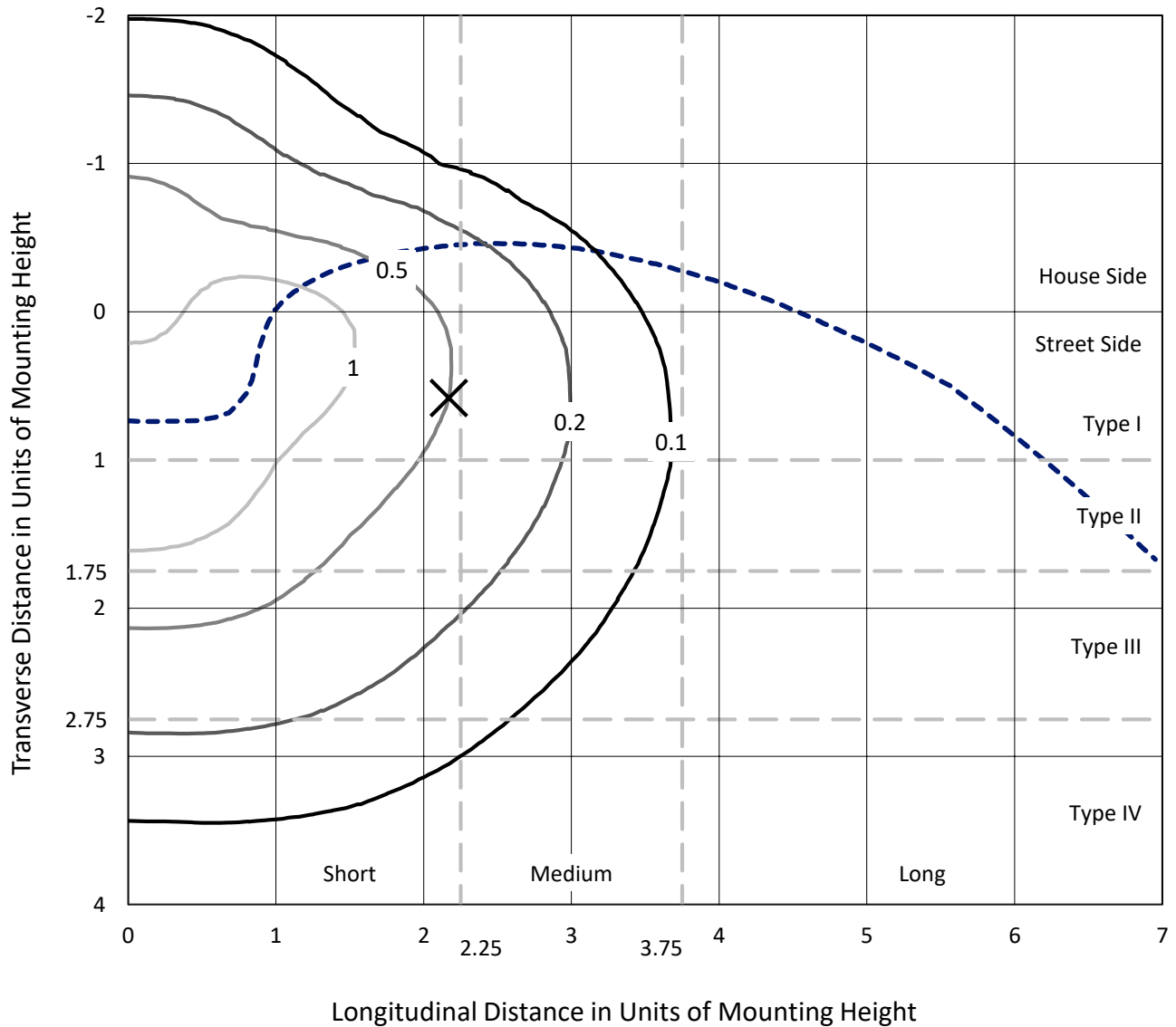


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

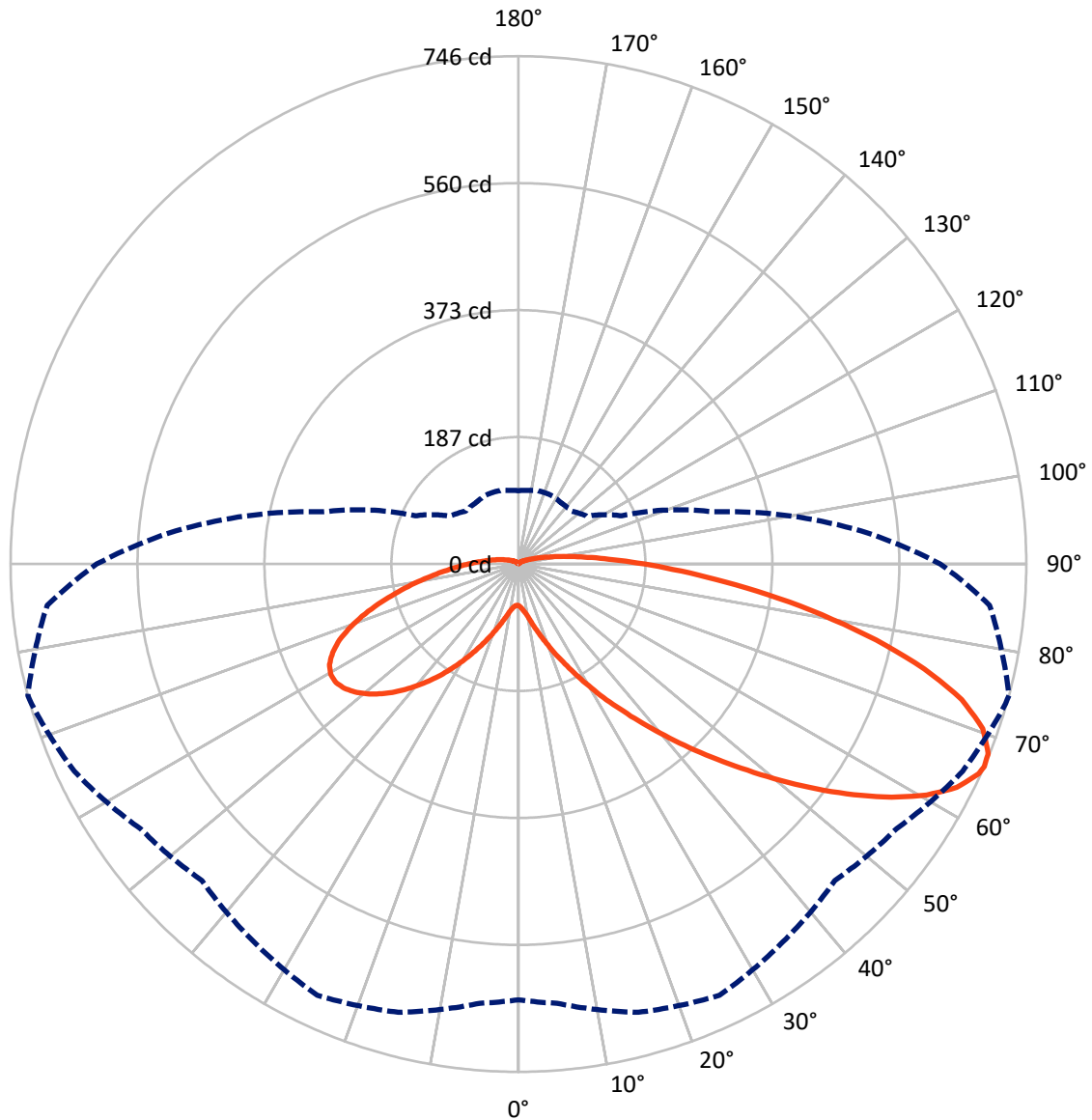


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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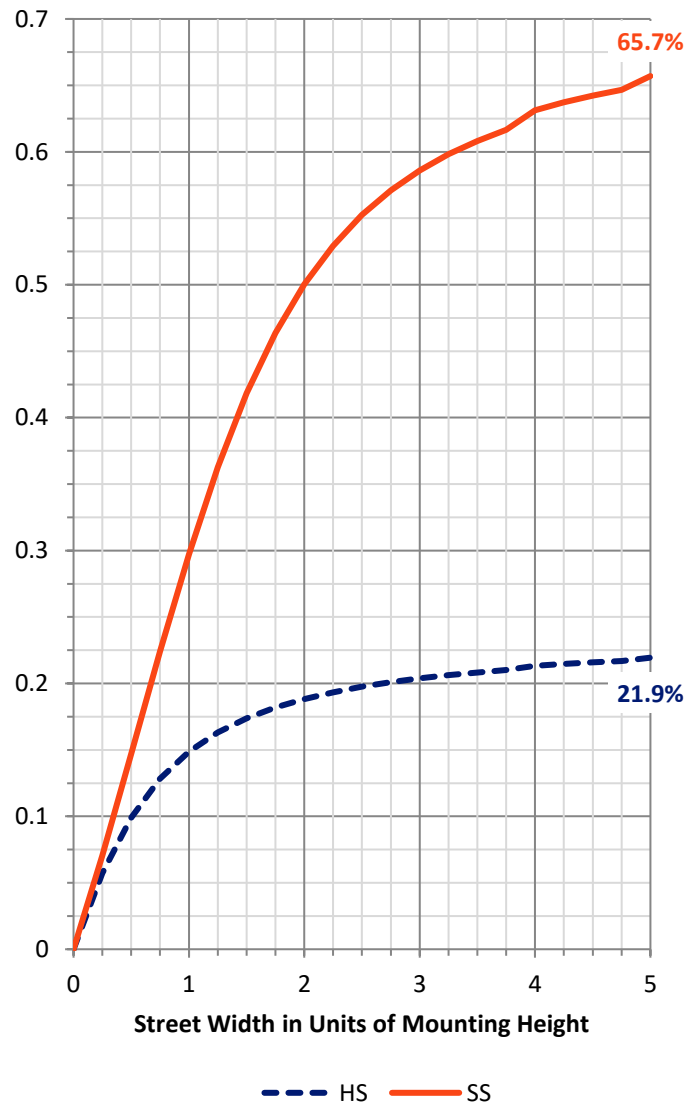
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.6	49.1	504.6
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	1366.0	95.2	1461.3
	% Fixture	69.5	4.8	74.3
Total	Lumens	1821.6	144.3	1965.9
	% Fixture	92.7	7.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.3
10°-20°	27.2	1.4
20°-30°	68.9	3.5
30°-40°	137.8	7.0
40°-50°	234.3	11.9
50°-60°	348.7	17.7
60°-70°	428.1	21.8
70°-80°	368.2	18.7
80°-90°	201.8	10.3
90°-100°	84.2	4.3
100°-110°	34.4	1.8
110°-120°	15.2	0.8
120°-130°	6.9	0.4
130°-140°	2.9	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1821.6	92.7
0°-180°	1965.9	100.0

Coefficient of Utilization



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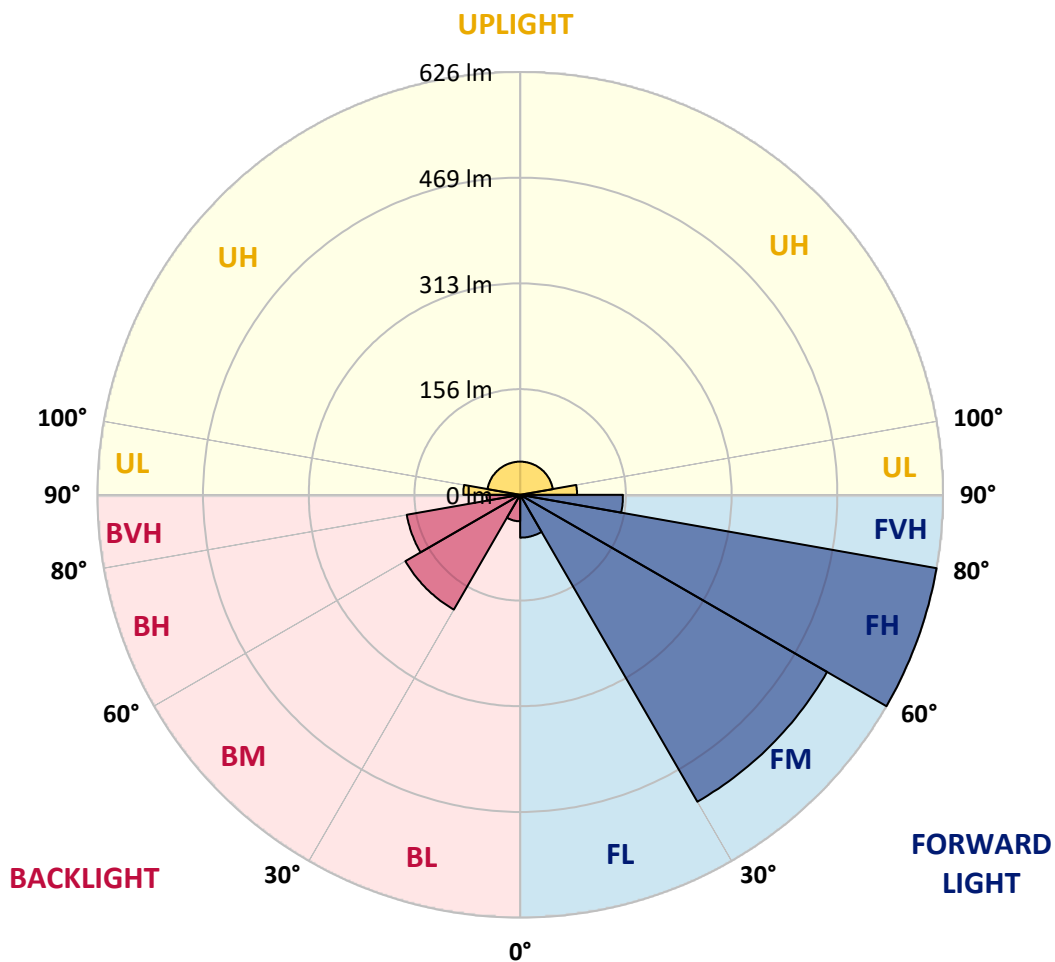
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.4	3.2			
FM (30°-60°)	524.6	26.7			
FH (60°-80°)	625.9	31.8			G0/660
FVH (80°-90°)	152.1	7.7			G2/225
BL (0°-30°)	39.2	2.0	B0/110		
BM (30°-60°)	196.2	10.0	B0/220		
BH (60°-80°)	170.4	8.7	B1/500		G1/500
BVH (80°-90°)	49.8	2.5			G1/100
UL (90°-100°)	84.2	4.3		U3/500	
UH (100°-180°)	49.1	2.5		U2/50	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2.5°	67.6	67.6	67.4	67.4	66.7	65.9	65.4	64.3	63.5	63.5	62.5
5°	74.7	74.7	74.6	74.1	73.1	72.0	70.4	68.8	67.4	67.2	65.4
7.5°	83.6	83.6	83.3	82.3	80.8	79.1	77.2	74.7	72.7	72.1	69.8
10°	94.7	94.7	94.0	92.5	90.5	88.5	85.8	82.5	79.6	79.3	75.9
12.5°	108.5	107.8	107.3	105.0	102.3	99.5	96.4	92.3	89.4	89.4	84.9
15°	124.4	124.4	122.4	119.4	116.1	112.2	108.9	104.7	101.4	101.1	95.8
17.5°	141.9	141.7	139.5	135.6	131.2	127.3	123.0	118.4	114.5	114.5	108.3
20°	162.1	161.5	158.7	153.7	148.1	143.8	139.1	133.8	129.6	129.6	122.8
22.5°	185.1	184.2	180.5	173.6	168.1	161.9	156.2	151.1	146.8	147.2	139.2
25°	210.9	209.8	205.3	196.3	188.5	181.0	175.4	170.0	166.8	165.6	159.2
27.5°	240.1	237.8	232.8	221.5	210.3	201.1	195.4	191.2	188.5	187.4	180.0
30°	272.4	269.9	262.9	248.8	234.0	222.5	216.9	213.8	212.4	211.2	203.7
32.5°	308.9	306.3	296.8	279.1	259.9	245.4	240.1	238.8	238.8	237.8	230.3
35°	348.8	345.5	333.9	311.6	287.4	270.2	265.1	265.9	266.1	265.4	259.2
37.5°	391.2	387.6	374.0	347.4	317.1	296.5	291.5	294.9	299.7	297.0	290.5
40°	434.9	431.5	416.9	384.6	348.4	324.1	319.1	325.7	333.5	331.3	324.1
42.5°	478.3	476.8	458.3	423.8	381.6	353.2	349.5	359.9	370.5	368.9	360.9
45°	525.5	521.1	503.2	464.6	417.4	386.7	382.6	396.5	410.9	409.4	401.5
47.5°	567.9	563.9	546.8	505.8	453.4	420.0	417.4	436.0	454.3	452.6	444.8
50°	603.7	603.1	588.7	546.3	491.3	454.7	454.5	478.0	500.3	499.8	489.8
52.5°	637.8	637.2	624.1	585.6	529.0	489.8	491.6	522.4	549.0	549.0	535.5
55°	664.2	664.0	656.3	623.1	566.6	528.7	534.1	567.9	598.4	598.4	584.9
57.5°	682.7	682.5	681.5	656.1	602.5	565.6	574.1	612.7	645.8	646.5	628.9
60°	687.1	689.2	698.8	682.7	634.6	599.1	610.8	654.0	688.0	689.2	664.9
62.5°	679.4	682.7	702.1	698.8	658.9	629.3	643.8	688.2	721.1	723.0	689.7
65°	654.0	661.0	690.6	701.7	674.4	651.4	670.8	713.2	740.6	743.2	697.7
66°	640.3	647.8	681.8	699.1	677.7	657.6	678.0	720.1	744.5	746.2	695.0
67.5°	614.4	621.8	662.1	688.7	677.7	663.6	683.9	724.9	743.8	744.5	685.5
70°	558.7	570.3	615.3	656.7	663.8	660.4	683.7	717.7	726.4	723.9	649.8
72.5°	497.8	504.0	553.5	609.6	633.8	640.3	666.9	690.6	684.9	681.3	596.1
75°	417.4	426.8	480.7	544.6	581.6	601.4	630.0	638.3	624.1	616.3	525.5
77.5°	348.5	352.3	402.7	468.5	517.1	544.2	571.1	573.7	544.0	537.5	443.3
80°	277.0	281.0	327.3	390.3	443.0	478.7	502.2	495.2	457.9	451.7	366.6
82.5°	216.5	221.7	257.3	317.5	368.5	406.2	424.1	412.9	377.3	368.5	291.9
85°	166.1	168.7	201.8	253.6	298.6	333.0	347.9	335.3	297.2	290.3	229.3
87.5°	126.7	129.1	157.3	197.9	237.8	267.1	278.6	262.8	231.9	227.2	178.1
90°	96.6	98.5	120.8	155.9	186.5	210.7	218.6	206.3	178.7	174.5	137.1
92.5°	74.1	75.7	93.1	120.8	146.0	166.6	170.0	158.2	136.9	133.3	105.6
95°	56.9	58.7	72.7	94.4	114.2	129.6	132.1	122.0	105.0	102.0	81.2
97.5°	44.6	45.4	57.0	74.7	90.9	101.7	102.5	95.0	80.3	78.4	62.5
100°	35.8	36.2	45.4	59.2	72.5	80.3	80.8	72.9	61.7	60.1	47.9
102.5°	29.0	29.5	36.4	47.7	57.5	64.0	63.8	57.5	47.7	45.9	37.4
105°	24.0	24.3	29.7	38.8	46.7	51.1	50.8	44.8	36.7	35.5	29.3
107.5°	20.1	20.4	24.4	31.6	38.4	42.0	41.2	35.3	28.6	27.8	23.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	17.0	17.2	20.4	26.4	32.3	34.8	33.7	28.0	22.5	21.6	18.8
112.5°	14.8	14.8	17.2	22.1	27.0	29.3	27.8	22.7	17.7	17.2	15.4
115°	12.9	13.1	14.8	18.8	22.9	24.4	22.9	18.2	14.5	14.0	12.7
117.5°	11.5	11.5	12.9	15.8	19.5	20.4	19.0	14.8	11.8	11.5	10.8
120°	10.3	10.3	11.3	13.5	16.3	17.2	15.8	12.2	9.6	9.3	9.2
122.5°	9.3	9.3	9.8	11.5	14.0	14.5	12.9	10.2	8.2	7.9	7.9
125°	8.4	8.4	8.7	9.8	11.8	12.2	10.8	8.2	6.9	6.6	6.6
127.5°	7.6	7.6	7.6	8.7	9.6	10.2	8.9	6.6	5.7	5.7	6.0
130°	6.9	6.9	6.9	7.1	7.9	8.2	7.1	5.5	5.0	5.0	5.0
132.5°	6.3	6.3	6.0	6.3	6.5	6.5	5.5	4.5	4.3	4.3	4.5
135°	5.5	5.5	5.3	5.3	5.3	5.0	4.3	3.7	3.7	3.7	3.9
137.5°	4.9	4.9	4.5	4.3	4.1	3.7	3.1	2.9	2.9	2.9	3.1
140°	4.1	4.1	3.9	3.4	2.9	2.6	2.2	2.2	2.3	2.3	2.3
142.5°	3.1	3.1	2.9	2.6	2.2	1.6	1.4	1.4	1.6	1.6	1.9
145°	2.3	2.3	2.2	1.6	1.2	1.0	0.7	1.0	1.2	1.2	1.4
147.5°	1.6	1.6	1.4	1.2	0.7	0.2	0.4	0.7	1.0	1.0	1.2
150°	1.0	1.0	0.7	0.4	0.0	0.0	0.2	0.4	0.7	0.7	0.7
152.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2.5°	62.2	61.7	60.6	59.9	59.0	58.5	58.0	57.5	57.3	56.9	56.9
5°	64.3	63.5	61.9	60.4	58.7	57.5	56.4	55.7	55.2	54.8	54.8
7.5°	68.4	67.2	64.5	62.3	59.9	58.5	57.0	55.7	54.8	54.6	54.6
10°	74.1	72.7	69.0	65.9	62.8	60.6	59.2	57.5	56.9	56.4	56.4
12.5°	82.5	80.0	75.7	71.1	67.2	64.5	62.5	61.4	61.4	61.9	61.7
15°	93.1	90.4	84.1	78.4	72.9	69.3	68.1	67.8	67.8	68.1	68.1
17.5°	104.6	100.9	93.8	86.2	79.8	76.3	74.7	74.3	74.3	74.6	75.0
20°	118.4	113.8	104.7	95.2	88.3	83.9	81.7	81.0	81.4	82.5	82.5
22.5°	134.4	129.4	117.1	105.0	96.8	91.4	88.8	87.9	88.9	90.1	90.4
25°	152.9	146.2	131.0	115.8	105.2	98.3	95.7	94.7	96.1	97.6	98.3
27.5°	173.4	164.7	145.7	126.7	112.6	104.3	101.4	101.1	103.0	105.0	105.7
30°	195.8	185.3	161.5	137.8	120.4	109.6	106.4	107.2	109.4	111.7	112.2
32.5°	220.8	208.2	178.1	148.8	126.3	113.6	110.0	111.7	114.4	117.5	117.9
35°	247.8	232.8	195.7	159.2	131.6	116.7	113.1	115.3	118.1	121.5	122.0
37.5°	277.3	258.9	213.1	168.3	135.6	118.7	114.9	117.5	120.8	124.0	124.4
40°	308.1	286.0	230.7	176.4	138.6	119.8	115.5	118.4	121.8	124.1	124.7
42.5°	342.9	315.2	247.7	183.0	140.2	120.2	115.5	118.1	121.5	123.2	123.4
45°	379.8	346.1	264.5	188.1	140.9	119.8	114.9	117.7	120.4	121.0	121.4
47.5°	418.2	377.7	279.6	191.2	140.9	118.8	113.8	116.1	118.1	117.9	118.1
50°	460.7	410.9	293.7	193.2	140.0	117.7	112.8	114.5	116.1	114.9	115.1
52.5°	501.1	443.8	305.2	193.9	138.2	116.3	112.0	113.4	114.2	112.5	112.5
55°	541.0	474.7	314.4	192.4	136.2	115.1	111.2	112.6	112.6	110.5	110.5
57.5°	578.1	501.1	319.7	189.6	133.5	114.2	110.8	112.2	112.2	109.4	109.4
60°	607.0	519.9	320.1	185.1	130.4	112.8	110.5	112.2	112.0	109.1	108.9
62.5°	624.5	528.4	314.4	178.7	127.3	111.7	110.3	112.0	112.0	108.9	108.5
65°	624.5	522.9	302.5	170.9	123.6	110.3	109.9	112.0	111.5	108.5	108.2
66°	619.7	516.9	296.0	167.5	122.4	109.9	109.6	112.0	111.5	108.5	107.8
67.5°	606.4	502.4	285.5	162.1	119.7	108.5	109.1	111.2	111.0	107.8	107.3
70°	568.2	465.3	262.8	152.3	115.3	106.4	107.6	109.6	109.4	106.4	105.6
72.5°	511.9	416.5	236.9	141.7	110.5	103.6	105.0	106.9	106.4	104.1	103.0
75°	445.4	360.9	208.8	130.4	104.7	99.7	101.4	103.0	102.5	100.4	99.1
77.5°	373.8	303.9	181.0	118.7	98.8	95.0	96.6	98.3	97.3	95.4	94.4
80°	303.4	248.8	154.6	106.9	91.7	89.4	91.1	91.5	90.9	89.2	87.9
82.5°	242.2	200.1	129.6	95.4	84.4	83.0	84.1	84.1	83.5	81.7	80.6
85°	190.1	159.7	109.1	83.9	77.0	75.9	76.7	75.9	75.0	73.3	72.5
87.5°	149.8	128.0	91.4	73.8	68.8	68.6	68.8	67.2	66.1	64.7	63.8
90°	117.0	100.4	76.3	64.3	61.4	61.2	60.6	59.0	56.9	55.3	54.6
92.5°	91.4	80.8	63.1	54.8	53.4	53.2	52.6	50.3	48.9	47.0	46.3
95°	72.5	64.5	52.2	47.5	46.7	46.5	45.5	43.2	41.2	39.3	38.8
97.5°	56.9	51.1	43.7	40.8	40.6	40.2	39.0	36.4	34.2	32.3	32.1
100°	44.6	41.1	36.4	35.0	35.0	34.8	33.5	30.9	28.2	26.4	26.1
102.5°	35.5	33.1	30.5	30.0	30.0	29.7	28.6	26.4	23.3	21.1	21.1
105°	28.2	26.9	25.4	25.6	26.0	25.6	24.4	21.7	18.8	17.0	17.0
107.5°	22.7	21.7	21.3	21.7	22.1	22.1	20.8	18.0	15.1	13.7	13.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.4	18.0	18.0	18.4	19.0	19.0	17.4	15.1	12.2	11.0	11.0
112.5°	15.1	14.8	15.1	16.1	16.3	16.1	14.8	12.4	9.8	9.2	9.2
115°	12.7	12.7	12.9	13.7	14.2	13.7	12.4	10.2	7.9	7.5	7.5
117.5°	10.8	10.8	11.0	11.8	11.9	11.5	10.3	8.2	6.5	6.3	6.3
120°	9.2	9.2	9.3	9.8	10.2	9.6	8.4	6.6	5.3	5.0	5.3
122.5°	7.9	7.9	8.2	8.4	8.7	8.2	6.9	5.3	4.3	4.3	4.3
125°	6.9	6.9	6.9	7.1	7.1	6.6	5.7	4.3	3.4	3.7	3.7
127.5°	6.0	6.0	6.0	6.0	6.0	5.5	4.5	3.4	2.9	3.1	3.1
130°	5.3	5.3	5.0	5.0	4.9	4.5	3.7	2.6	2.3	2.6	2.6
132.5°	4.5	4.5	4.3	4.1	3.9	3.7	2.9	1.9	1.9	2.2	2.2
135°	3.9	3.9	3.7	3.4	3.1	2.6	1.9	1.4	1.4	1.6	1.6
137.5°	3.1	3.1	2.9	2.6	2.2	1.9	1.4	1.0	1.2	1.4	1.4
140°	2.3	2.3	2.2	1.9	1.4	1.0	0.7	0.7	0.7	1.0	1.0
142.5°	1.9	1.9	1.6	1.2	0.7	0.4	0.2	0.2	0.4	0.7	0.7
145°	1.4	1.4	1.2	1.0	0.4	0.2	0.0	0.0	0.2	0.2	0.2
147.5°	1.2	1.0	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.0	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.2	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

(END OF REPORT)