

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: P266019

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)
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-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.5 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U2 - 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

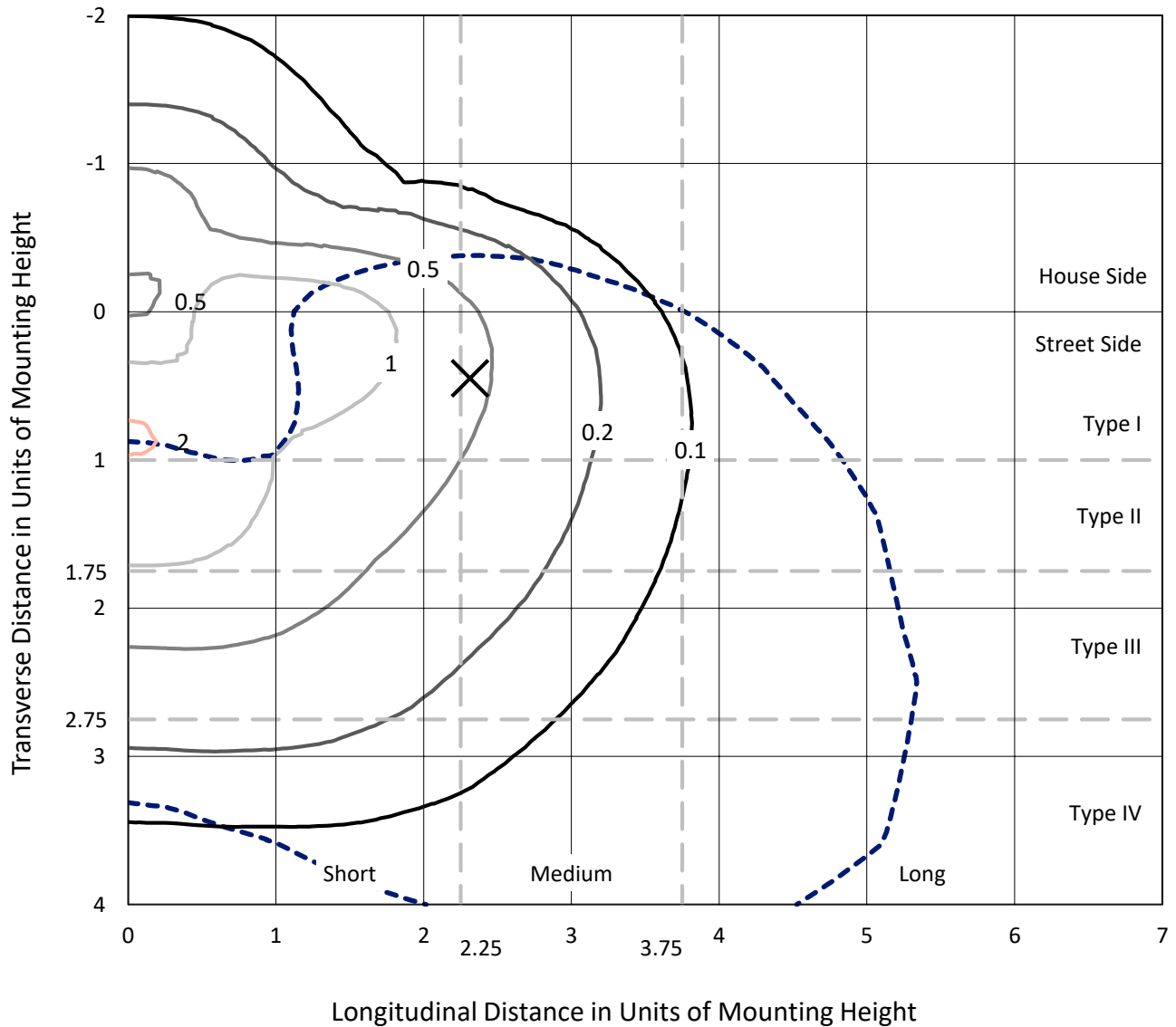


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

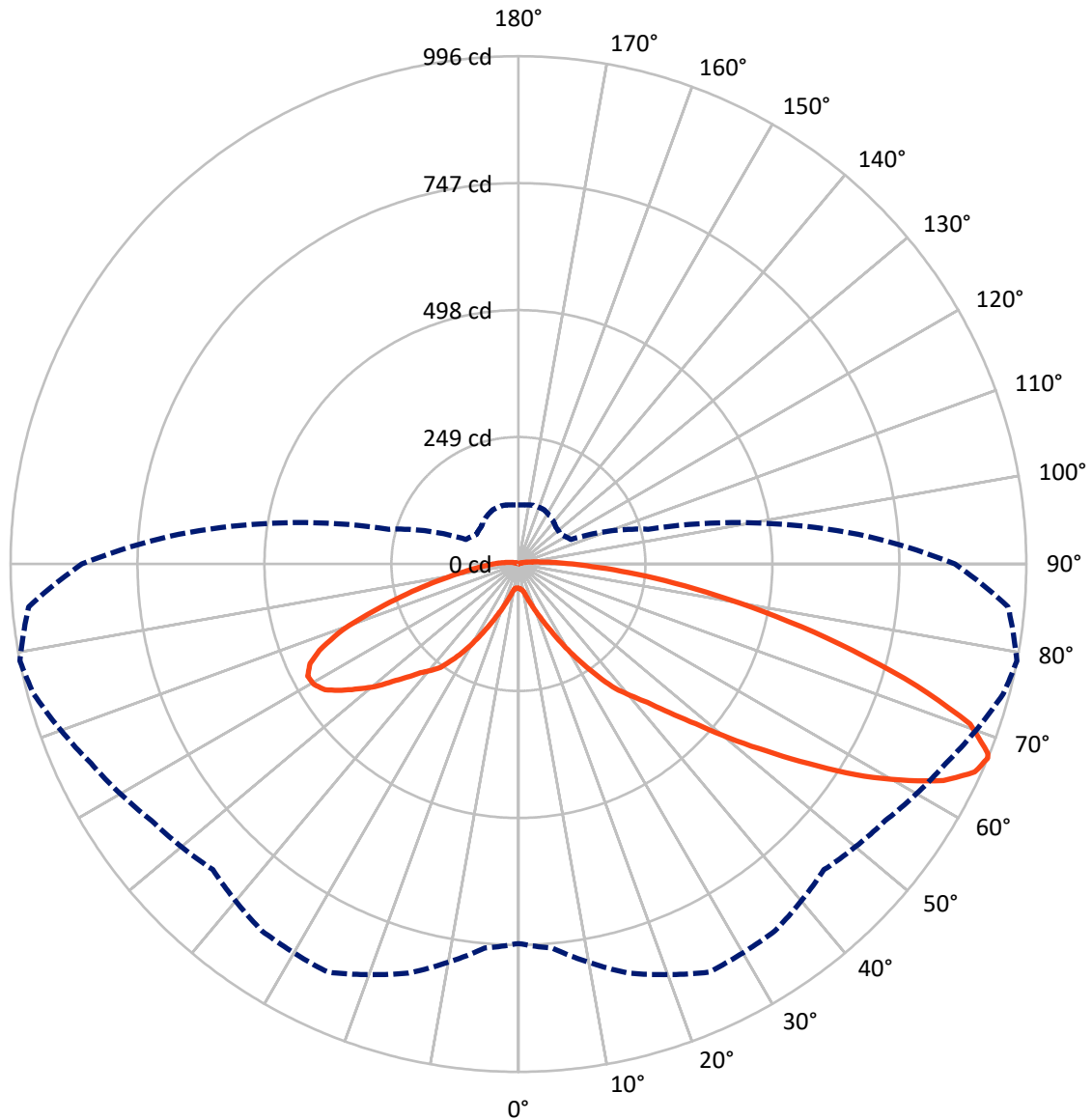


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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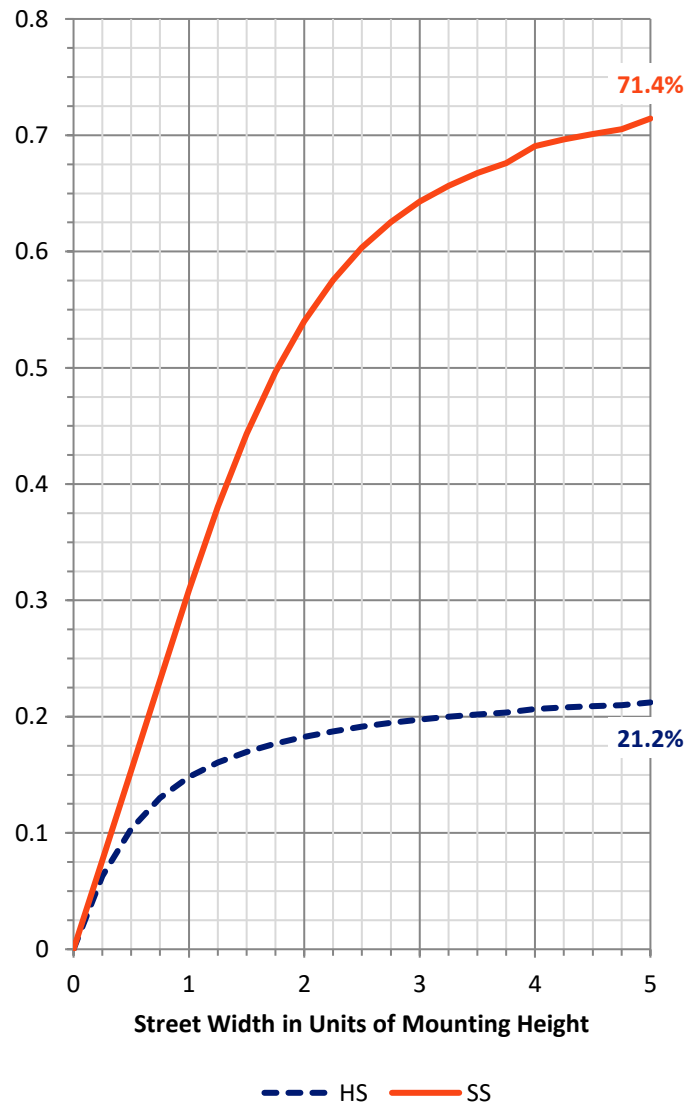
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	442.4	29.8	472.2
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	1470.0	41.4	1511.4
	% Fixture	74.1	2.1	76.2
Total	Lumens	1912.3	71.2	1983.5
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.2
10°-20°	20.4	1.0
20°-30°	58.8	3.0
30°-40°	133.3	6.7
40°-50°	231.7	11.7
50°-60°	371.2	18.7
60°-70°	517.2	26.1
70°-80°	408.6	20.6
80°-90°	166.4	8.4
90°-100°	47.5	2.4
100°-110°	14.1	0.7
110°-120°	5.5	0.3
120°-130°	2.6	0.1
130°-140°	1.2	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1912.3	96.4
0°-180°	1983.5	100.0



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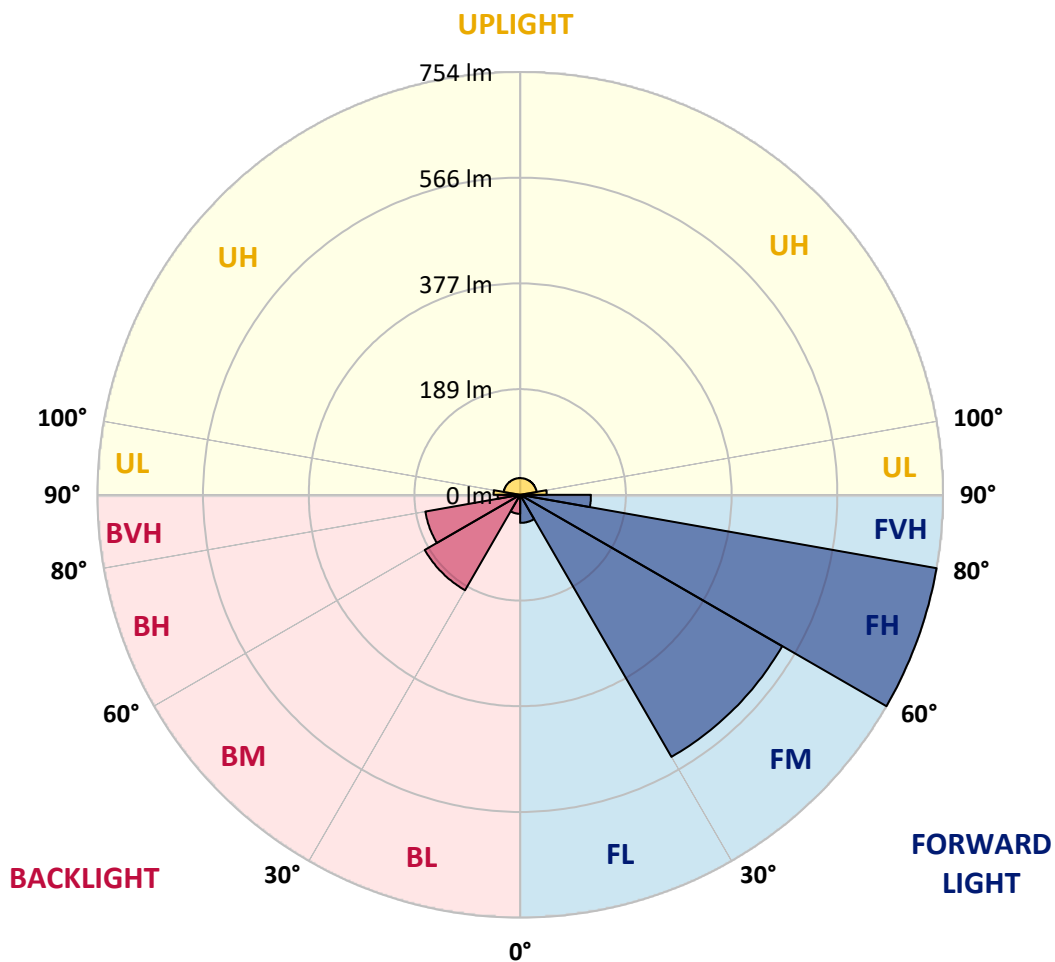
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.1	2.5			
FM	(30°-60°)	539.6	27.2			
FH	(60°-80°)	754.0	38.0			G1/1800
FVH	(80°-90°)	126.2	6.4			G2/225
BL	(0°-30°)	33.9	1.7	B0/110		
BM	(30°-60°)	196.5	9.9	B0/220		
BH	(60°-80°)	171.7	8.7	B1/500		G1/500
BVH	(80°-90°)	40.2	2.0			G1/100
UL	(90°-100°)	47.5	2.4		U2/50	
UH	(100°-180°)	29.8	1.5		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	50.8	50.8	51.1	51.1	51.1	50.6	49.9	49.1	48.7	48.4	48.0
5°	54.6	54.4	54.6	54.4	54.4	53.4	52.3	51.1	50.1	49.6	48.9
7.5°	60.1	60.1	59.9	59.5	59.0	57.3	55.3	54.0	52.6	51.6	50.8
10°	67.2	67.4	67.0	65.7	64.5	62.3	60.1	58.3	56.1	54.8	54.0
12.5°	78.0	78.0	77.0	74.3	71.4	68.8	66.5	64.5	63.5	62.3	61.4
15°	91.4	91.1	89.7	85.6	81.7	77.3	75.5	74.3	73.7	72.7	71.4
17.5°	107.2	107.0	104.4	98.8	92.7	89.4	86.7	85.6	86.1	85.1	84.1
20°	126.1	125.7	121.6	113.8	107.8	103.3	100.5	99.3	100.7	100.0	99.3
22.5°	150.3	149.1	143.4	132.3	125.5	117.9	115.3	114.9	118.1	118.1	118.1
25°	179.1	178.0	169.3	156.6	144.4	135.3	132.6	135.3	140.8	141.5	142.9
27.5°	212.4	211.0	200.4	182.6	166.4	154.1	152.1	157.4	165.8	169.3	170.7
30°	251.7	250.7	235.6	213.2	190.1	174.8	172.4	181.9	195.4	200.7	204.3
32.5°	298.2	297.1	275.2	248.7	216.5	197.4	195.4	210.1	230.1	235.1	242.5
35°	355.8	354.7	325.8	288.6	246.0	221.3	221.3	240.2	264.9	271.8	280.8
37.5°	413.6	413.4	384.4	334.7	278.7	247.8	248.1	270.0	299.8	310.5	318.7
40°	470.0	470.4	437.4	380.5	315.0	276.7	276.5	298.4	329.5	338.8	346.7
42.5°	521.2	520.9	489.8	429.2	352.9	308.1	303.7	325.4	358.2	370.9	381.5
45°	556.9	559.6	535.6	473.0	391.0	340.6	331.8	355.8	397.8	415.2	429.4
47.5°	601.3	601.5	579.4	514.3	430.2	374.6	366.4	396.6	449.8	468.0	482.8
50°	650.3	652.7	635.1	566.1	474.2	412.6	409.4	447.6	511.0	536.6	555.1
52.5°	692.0	694.8	684.1	625.3	527.5	461.5	461.5	510.0	577.8	608.5	626.5
55°	722.6	727.4	730.1	682.2	587.8	518.9	524.2	578.6	653.8	690.5	712.4
57.5°	747.1	753.8	766.3	732.7	646.9	587.8	595.3	653.5	745.2	779.5	802.5
60°	783.3	791.0	813.5	786.9	715.1	661.7	672.0	735.6	829.1	860.0	877.6
62.5°	786.9	796.3	841.8	845.7	778.8	734.2	756.9	819.3	908.5	935.3	939.2
65°	770.3	782.7	843.0	878.1	846.7	802.0	834.2	891.5	965.3	983.0	973.3
67°	743.9	755.7	830.0	882.9	877.4	847.3	877.4	924.5	983.7	995.5	963.8
67.5°	732.7	743.9	822.8	881.9	881.1	855.2	884.2	931.7	984.7	992.6	957.0
70°	660.6	676.2	760.5	851.1	879.5	862.5	896.5	929.3	942.3	939.4	888.2
72.5°	533.8	548.3	640.4	767.2	832.0	823.3	853.6	859.6	836.9	817.1	747.1
75°	391.5	397.9	482.8	619.3	725.6	735.4	758.1	744.8	703.1	676.9	605.6
77.5°	271.8	278.4	343.6	468.9	585.1	621.6	644.3	624.6	580.8	540.7	462.9
80°	180.1	183.4	234.5	341.6	458.9	510.0	529.5	509.2	453.6	414.3	340.6
82.5°	109.9	116.3	153.3	239.5	354.8	417.7	431.8	408.5	348.5	307.6	245.5
85°	65.9	69.3	98.1	161.9	261.0	331.4	344.8	314.5	253.7	217.0	164.5
87.5°	40.8	42.2	61.7	104.8	183.2	247.5	261.9	226.2	171.1	144.5	110.0
90°	26.4	27.6	40.6	69.1	121.1	176.2	182.6	153.9	113.8	96.4	74.6
92.5°	17.7	18.8	27.6	45.9	79.6	115.5	120.4	101.7	75.3	64.3	50.8
95°	12.4	13.1	19.5	31.3	51.8	71.2	76.3	65.9	49.1	42.4	35.0
97.5°	9.6	10.2	14.6	22.5	35.0	46.1	48.0	42.8	33.3	29.3	25.4
100°	7.6	8.2	11.5	17.0	25.2	31.4	32.6	29.5	23.4	21.1	18.8
102.5°	6.6	6.6	9.3	13.5	19.0	23.3	23.4	21.1	17.2	15.6	14.5
105°	5.7	5.7	7.6	10.8	15.1	18.0	18.0	15.6	12.7	11.5	11.0
107.5°	4.9	5.0	6.5	8.7	11.9	14.5	14.0	11.5	9.2	8.4	8.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	4.1	4.3	5.5	7.1	9.8	11.8	11.0	8.9	6.6	6.3	6.3
112.5°	3.7	3.9	4.5	6.3	8.4	9.8	8.9	6.6	5.0	4.9	5.0
115°	3.4	3.4	4.1	5.5	7.1	8.2	7.5	5.5	4.1	3.9	4.1
117.5°	2.9	3.1	3.7	4.9	6.5	6.9	6.3	4.3	3.1	3.1	3.7
120°	2.9	2.9	3.4	4.3	5.7	6.3	5.3	3.7	2.6	2.6	3.1
122.5°	2.6	2.6	3.1	4.1	5.0	5.5	4.5	3.1	2.3	2.3	2.6
125°	2.6	2.6	3.1	3.9	4.5	4.5	3.9	2.6	2.2	2.2	2.3
127.5°	2.9	2.9	3.1	3.7	4.1	4.1	3.4	2.3	1.9	1.9	2.2
130°	2.9	2.9	2.9	3.4	3.7	3.4	2.9	2.2	1.9	1.9	2.2
132.5°	2.9	2.9	2.9	2.9	3.1	2.9	2.3	1.6	1.6	1.6	1.9
135°	2.6	2.6	2.3	2.6	2.6	2.2	1.6	1.2	1.4	1.4	1.6
137.5°	2.2	2.2	2.2	2.2	1.9	1.6	1.2	1.0	1.2	1.4	1.4
140°	1.9	1.9	1.6	1.6	1.4	1.2	0.7	1.0	1.2	1.2	1.2
142.5°	1.4	1.4	1.4	1.2	1.0	0.7	0.4	0.7	1.0	1.0	1.2
145°	1.0	1.0	1.0	0.7	0.4	0.2	0.4	0.4	0.7	1.0	1.0
147.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.7	0.7	0.7
150°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.7
152.5°	0.0	0.0	0.0	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	0.0	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	0.0
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	47.7	47.5	46.7	46.3	45.9	45.5	45.4	45.4	45.0	44.8	44.8
5°	48.4	48.0	46.7	45.9	45.0	44.6	44.0	43.8	43.4	43.2	43.2
7.5°	49.9	49.1	47.7	46.1	44.8	44.0	43.7	43.2	42.7	42.7	42.7
10°	52.7	51.8	49.6	47.5	45.5	44.6	44.0	43.7	43.7	43.4	43.4
12.5°	59.9	58.5	54.8	51.1	47.7	46.3	45.9	47.0	48.4	48.7	49.3
15°	69.8	68.4	63.8	58.3	52.7	49.6	51.4	53.4	55.9	57.9	57.9
17.5°	81.9	80.3	74.1	66.5	59.6	57.9	58.3	61.4	64.8	66.5	66.7
20°	97.0	94.7	86.1	75.5	68.1	65.1	65.9	69.1	73.8	76.3	76.7
22.5°	116.1	112.5	100.9	86.1	77.0	73.1	73.8	77.7	84.1	87.6	88.8
25°	140.0	135.5	117.9	98.8	85.9	80.0	82.3	88.3	96.4	101.4	101.1
27.5°	167.7	160.3	138.6	112.0	94.7	86.7	90.2	98.5	108.3	114.2	114.9
30°	200.7	191.2	161.2	125.9	102.3	92.7	97.0	107.6	118.7	126.3	127.1
32.5°	237.3	226.4	184.2	139.7	108.7	97.3	102.1	115.3	128.1	137.1	137.4
35°	275.1	260.9	205.9	151.8	113.8	100.9	106.0	121.1	136.0	146.6	147.2
37.5°	311.0	294.5	226.2	159.7	117.3	102.9	108.2	125.9	142.7	153.9	154.7
40°	338.0	317.7	238.6	162.4	117.9	103.8	110.0	127.7	142.7	151.3	151.8
42.5°	372.1	345.3	247.8	159.7	116.1	103.8	110.9	125.5	136.9	142.7	142.7
45°	417.7	384.6	261.5	156.6	112.2	103.0	108.9	120.2	127.7	130.7	130.7
47.5°	472.1	428.9	275.7	154.4	109.4	101.4	106.0	113.6	117.7	117.9	117.5
50°	540.9	485.1	293.2	151.3	107.6	99.7	103.3	108.3	110.9	109.9	109.4
52.5°	606.6	534.9	305.8	147.4	106.7	99.1	101.9	106.2	107.0	104.1	103.3
55°	685.0	593.4	314.3	141.3	105.7	99.5	101.9	105.6	105.0	101.1	100.5
57.5°	763.2	648.3	322.0	135.7	104.8	100.3	102.9	106.0	105.0	101.4	100.7
60°	823.0	685.9	317.7	130.0	103.8	101.4	104.6	107.6	107.6	104.8	104.6
62.5°	870.1	708.6	307.4	124.0	103.0	102.3	106.7	111.3	112.2	110.0	109.9
65°	880.7	699.4	287.5	118.1	102.1	103.0	109.6	115.3	116.1	113.8	113.6
67°	855.9	668.2	263.1	113.4	100.7	103.3	111.5	117.7	118.7	116.5	115.8
67.5°	845.1	656.0	256.7	112.2	100.3	103.3	111.7	117.9	119.1	117.0	116.3
70°	762.4	583.4	223.5	105.6	97.0	102.1	112.2	119.7	120.4	117.7	116.8
72.5°	631.8	470.4	184.8	99.1	93.2	99.1	110.5	118.4	118.1	114.4	113.6
75°	500.9	368.8	148.8	91.5	88.0	94.2	106.0	112.9	111.5	107.0	106.0
77.5°	380.5	275.7	121.1	84.1	81.9	88.0	98.4	103.3	100.5	96.2	95.2
80°	271.2	198.5	98.5	77.3	75.5	80.8	88.8	91.4	89.4	85.3	84.1
82.5°	189.6	142.7	81.9	70.2	69.3	73.4	78.4	81.0	80.0	76.4	75.5
85°	131.2	99.7	69.1	63.3	62.8	65.7	68.8	70.4	71.2	69.3	68.1
87.5°	88.3	73.4	58.7	55.7	55.9	58.0	60.1	61.9	64.0	63.8	62.6
90°	63.1	54.8	49.1	47.7	48.1	50.6	51.6	52.6	55.2	55.2	54.4
92.5°	45.0	41.7	39.9	39.3	40.2	42.2	42.7	42.8	44.8	45.0	43.7
95°	32.1	30.5	31.3	31.6	32.6	34.2	34.0	33.3	34.2	34.2	33.1
97.5°	23.7	23.3	24.8	25.2	26.0	27.3	26.6	25.4	26.1	25.2	24.4
100°	18.2	18.2	19.9	20.1	20.7	21.3	21.1	20.1	20.4	19.1	18.8
102.5°	14.5	14.6	15.8	16.1	16.6	17.2	16.8	16.3	15.8	14.5	14.5
105°	11.3	11.5	12.4	12.7	13.1	14.0	13.7	12.9	12.2	11.0	11.0
107.5°	8.7	9.2	9.8	10.2	10.5	11.3	11.0	10.2	9.2	8.4	8.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.6	7.1	7.9	8.2	8.4	9.2	8.7	7.6	6.9	6.5	6.5
112.5°	5.5	5.7	6.5	6.6	6.9	7.5	6.9	6.0	5.3	5.0	5.0
115°	4.5	4.9	5.3	5.5	6.0	6.0	5.5	4.5	4.1	4.1	4.1
117.5°	3.9	4.1	4.5	4.9	4.9	5.0	4.3	3.7	3.1	3.4	3.4
120°	3.4	3.4	3.9	3.9	4.1	4.1	3.7	2.9	2.3	2.6	2.9
122.5°	2.9	2.9	3.1	3.4	3.4	3.4	2.9	2.3	1.9	2.2	2.3
125°	2.3	2.6	2.6	2.9	2.9	2.9	2.3	1.9	1.6	1.9	1.9
127.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.9	1.4	1.4	1.6	1.6
130°	2.2	2.2	2.2	2.2	1.9	1.6	1.4	1.0	1.2	1.4	1.4
132.5°	1.9	1.9	1.9	1.6	1.4	1.2	1.0	0.7	0.7	1.2	1.2
135°	1.6	1.6	1.4	1.2	1.0	0.7	0.4	0.4	0.4	1.0	1.0
137.5°	1.4	1.4	1.2	1.0	0.7	0.4	0.2	0.0	0.2	0.4	0.4
140°	1.4	1.4	1.2	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.2
142.5°	1.2	1.2	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	1.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.0	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

(END OF REPORT)