

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: P254364

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254364
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
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 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: 2335.4 lumens
Efficiency: N/A
Efficacy: 111.2 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 - U3 - G2

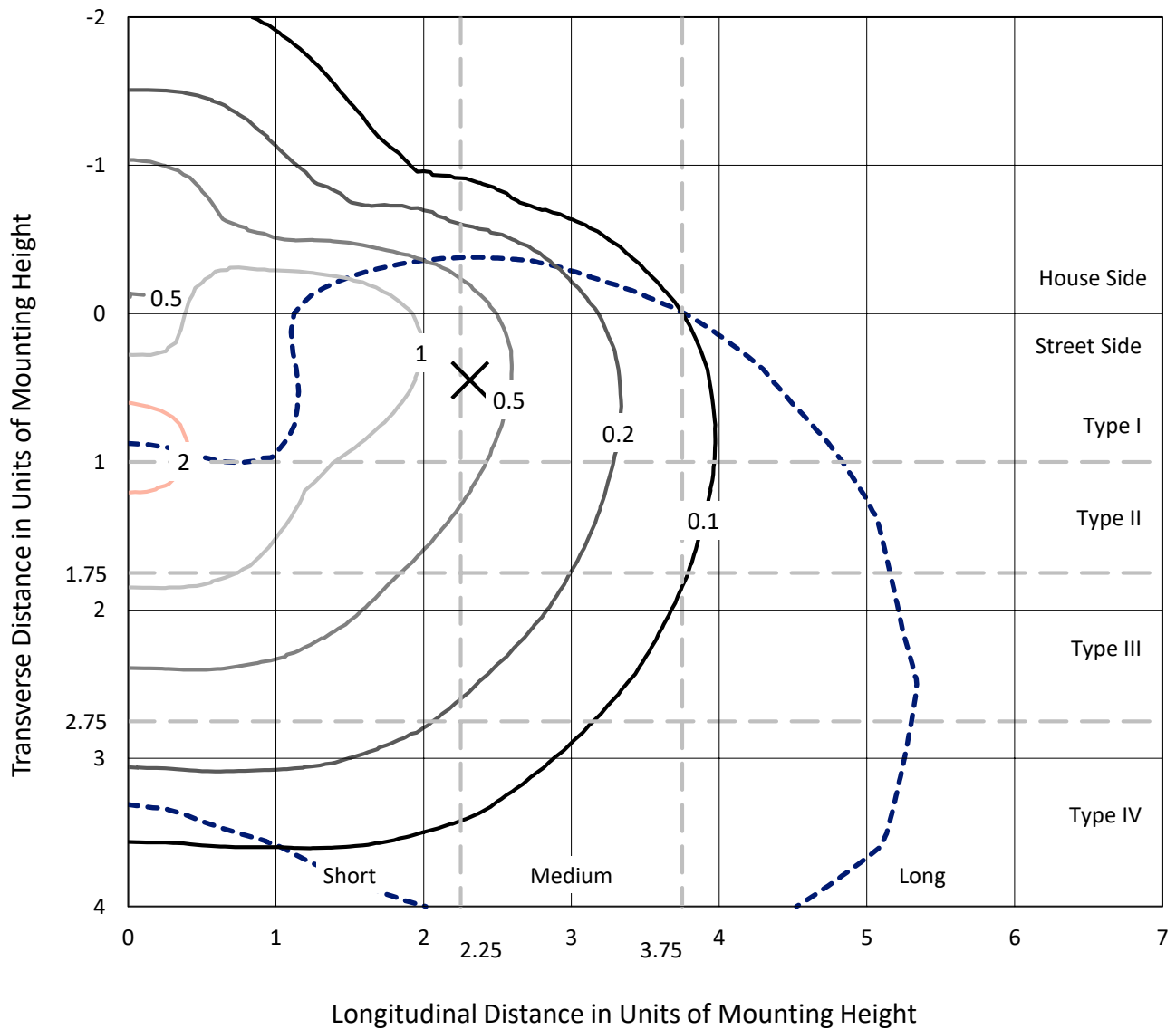
Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

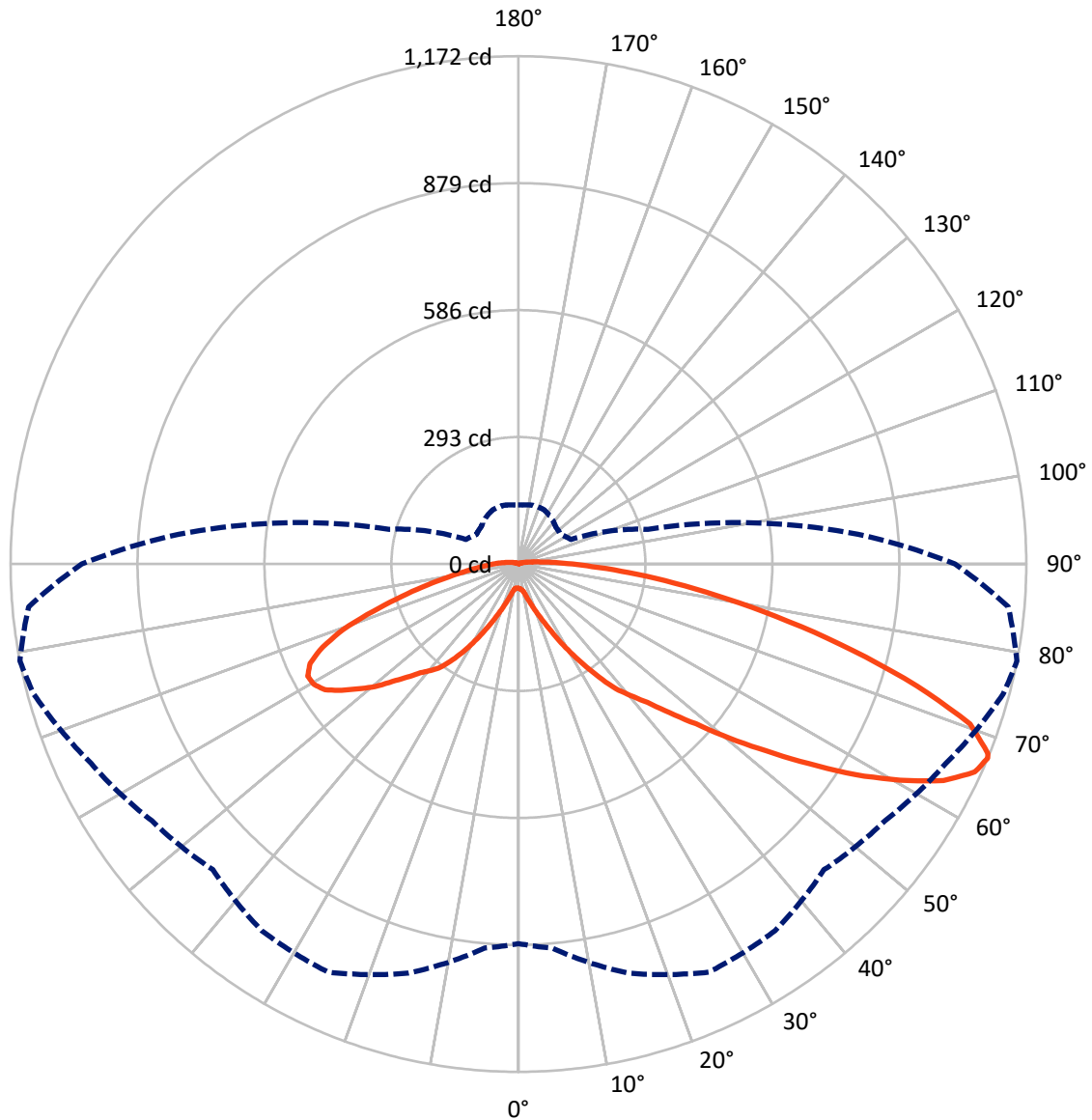
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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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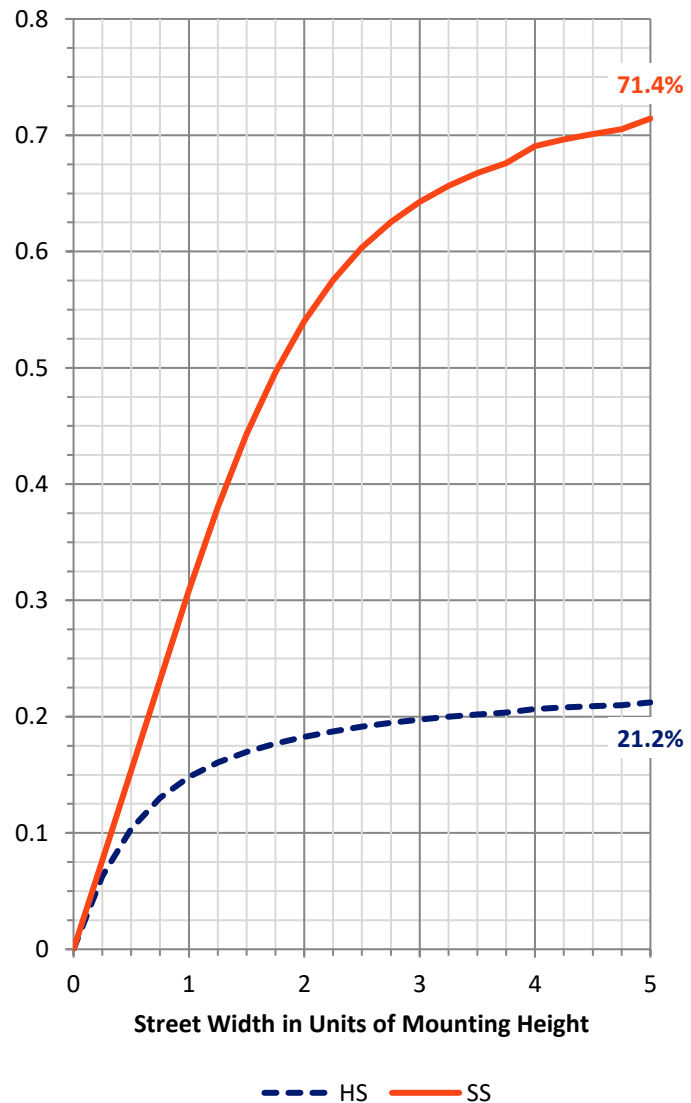
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.8	35.2	556.0
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	1730.7	48.7	1779.4
	% Fixture	74.1	2.1	76.2
Total	Lumens	2251.5	83.9	2335.4
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.2
10°-20°	24.0	1.0
20°-30°	69.2	3.0
30°-40°	157.0	6.7
40°-50°	272.7	11.7
50°-60°	437.0	18.7
60°-70°	609.0	26.1
70°-80°	481.0	20.6
80°-90°	195.9	8.4
90°-100°	55.9	2.4
100°-110°	16.6	0.7
110°-120°	6.4	0.3
120°-130°	3.1	0.1
130°-140°	1.4	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2251.5	96.4
0°-180°	2335.4	100.0



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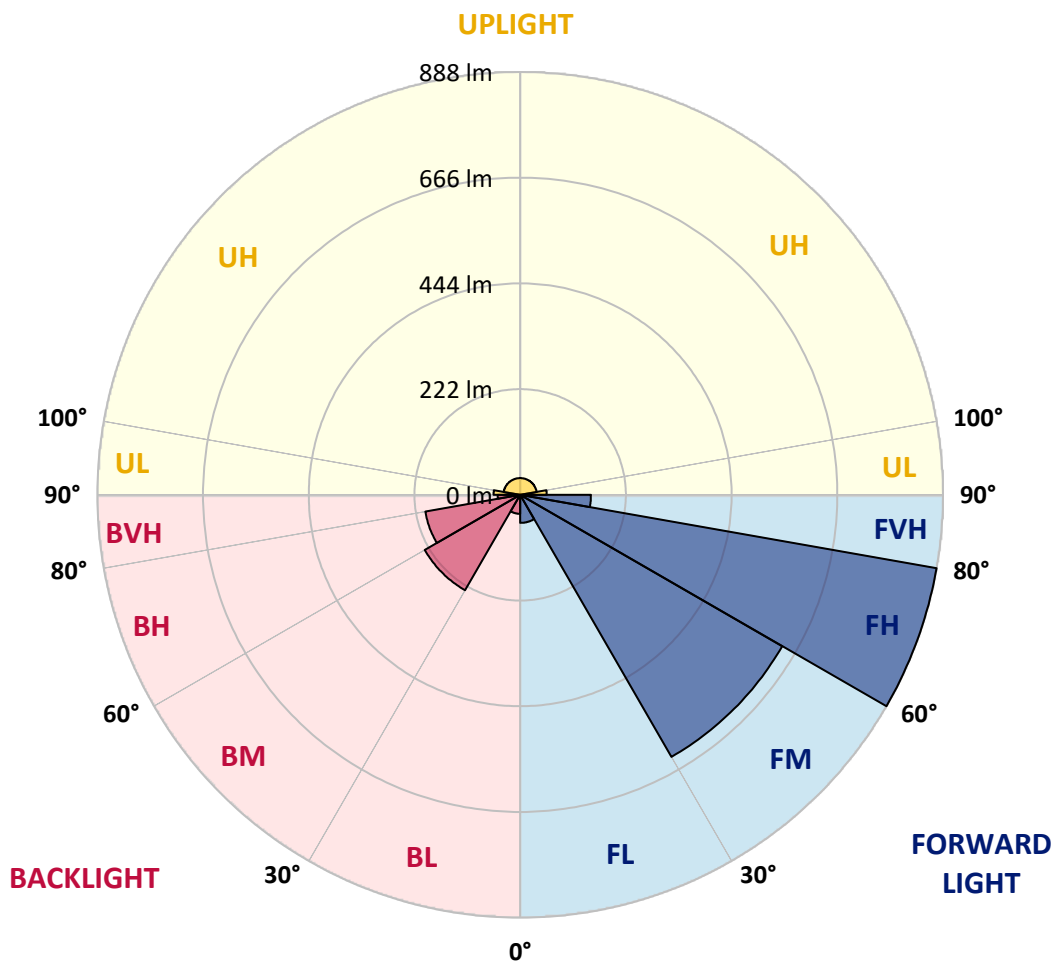
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.0	2.5			
FM (30°-60°)	635.4	27.2			
FH (60°-80°)	887.8	38.0			G1/1800
FVH (80°-90°)	148.6	6.4			G2/225
BL (0°-30°)	39.9	1.7	B0/110		
BM (30°-60°)	231.4	9.9	B1/1000		
BH (60°-80°)	202.2	8.7	B1/500		G1/500
BVH (80°-90°)	47.3	2.0			G1/100
UL (90°-100°)	55.9	2.4		U3/500	
UH (100°-180°)	35.2	1.5		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	59.8	59.8	60.1	60.1	60.1	59.5	58.7	57.9	57.3	57.0	56.5
5°	64.3	64.0	64.3	64.0	64.0	62.9	61.6	60.1	59.0	58.4	57.6
7.5°	70.9	70.9	70.6	70.0	69.5	67.5	65.2	63.5	61.8	60.7	59.8
10°	79.1	79.3	78.8	77.3	75.9	73.3	70.9	68.6	66.1	64.7	63.5
12.5°	91.8	91.8	90.6	87.5	84.1	81.0	78.2	75.9	74.8	73.3	72.2
15°	107.5	107.3	105.6	100.8	96.3	90.9	88.9	87.5	86.6	85.5	84.1
17.5°	126.2	125.9	122.8	116.3	109.3	105.3	102.2	100.8	101.4	100.2	99.1
20°	148.5	147.9	143.1	134.1	127.1	121.6	118.3	116.8	118.6	117.7	116.8
22.5°	177.0	175.5	168.8	155.8	147.6	138.9	135.7	135.2	139.1	139.1	139.1
25°	210.8	209.5	199.3	184.3	169.9	159.2	156.1	159.2	165.7	166.5	168.3
27.5°	250.1	248.4	236.0	215.1	195.9	181.5	179.0	185.2	195.4	199.3	201.0
30°	296.5	295.3	277.5	250.9	223.8	205.8	203.0	214.3	230.1	236.3	240.5
32.5°	351.2	349.7	324.1	292.8	254.9	232.3	230.1	247.2	271.0	276.9	285.4
35°	418.9	417.5	383.6	339.9	289.6	260.5	260.5	282.8	311.9	320.1	330.5
37.5°	486.9	486.7	452.6	394.0	328.1	291.6	292.2	317.8	352.8	365.6	375.2
40°	553.3	553.8	515.0	448.0	370.9	325.8	325.5	351.5	387.9	398.8	408.2
42.5°	613.7	613.5	576.7	505.3	415.5	362.7	357.6	383.1	421.8	436.7	449.2
45°	655.8	658.9	630.6	557.0	460.4	401.1	390.7	418.9	468.3	489.0	505.5
47.5°	708.0	708.3	682.3	605.5	506.5	440.9	431.4	466.9	529.6	551.1	568.6
50°	765.6	768.4	747.8	666.5	558.3	485.8	482.1	527.0	601.6	631.8	653.5
52.5°	814.7	818.1	805.4	736.2	621.0	543.4	543.4	600.5	680.4	716.5	737.6
55°	850.8	856.5	859.6	803.1	691.9	610.9	617.0	681.2	769.8	813.0	838.7
57.5°	879.6	887.5	902.2	862.7	761.6	691.9	700.9	769.6	877.4	917.7	944.8
60°	922.3	931.3	957.8	926.5	841.8	779.1	791.3	866.0	976.2	1012.6	1033.2
62.5°	926.5	937.5	991.1	995.6	916.9	864.4	891.2	964.6	1069.6	1101.2	1105.7
65°	907.1	921.4	992.6	1033.8	996.8	944.3	982.1	1049.5	1136.5	1157.4	1145.8
67°	876.0	889.8	977.3	1039.4	1032.9	997.6	1032.9	1088.5	1158.3	1172.1	1134.9
67.5°	862.7	876.0	968.8	1038.3	1037.5	1006.9	1041.1	1097.0	1159.4	1168.7	1126.7
70°	777.7	796.1	895.4	1002.2	1035.4	1015.4	1055.5	1094.1	1109.4	1106.0	1045.7
72.5°	628.4	645.6	754.0	903.4	979.6	969.3	1004.9	1012.0	985.2	962.1	879.6
75°	460.9	468.6	568.6	729.2	854.3	865.8	892.6	876.8	827.7	796.9	713.1
77.5°	320.1	327.8	404.6	552.2	688.8	732.0	758.5	735.4	683.7	636.6	545.1
80°	212.0	215.9	276.1	402.2	540.3	600.5	623.3	599.6	534.1	487.8	401.1
82.5°	129.3	136.9	180.3	282.0	417.8	491.7	508.4	481.0	410.2	362.2	289.1
85°	77.6	81.6	115.5	190.6	307.4	390.2	405.9	370.4	298.7	255.4	193.6
87.5°	48.0	49.7	72.5	123.4	215.6	291.3	308.2	266.2	201.5	170.2	129.6
90°	31.1	32.4	47.7	81.3	142.6	207.5	215.1	181.3	134.1	113.4	87.8
92.5°	20.9	22.0	32.4	53.9	93.7	136.1	141.7	119.7	88.7	75.7	59.8
95°	14.6	15.5	22.9	36.7	61.0	83.9	89.8	77.6	57.9	49.9	41.2
97.5°	11.3	11.9	17.2	26.5	41.2	54.2	56.5	50.5	39.3	34.5	30.0
100°	9.0	9.6	13.5	20.0	29.7	37.0	38.4	34.7	27.6	24.9	22.0
102.5°	7.9	7.9	11.0	15.9	22.3	27.4	27.6	24.9	20.4	18.3	17.0
105°	6.8	6.8	9.0	12.7	17.8	21.2	21.2	18.3	14.9	13.5	13.0
107.5°	5.6	5.9	7.7	10.1	14.1	17.0	16.4	13.5	10.7	9.9	9.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	4.8	5.1	6.4	8.5	11.6	13.8	13.0	10.4	7.9	7.4	7.4
112.5°	4.2	4.5	5.3	7.4	9.9	11.6	10.4	7.9	5.9	5.6	5.9
115°	4.0	4.0	4.8	6.4	8.5	9.6	8.8	6.4	4.8	4.5	4.8
117.5°	3.4	3.7	4.2	5.6	7.7	8.2	7.4	5.1	3.7	3.7	4.2
120°	3.4	3.4	4.0	5.1	6.8	7.4	6.2	4.2	3.1	3.1	3.7
122.5°	3.1	3.1	3.7	4.8	5.9	6.4	5.3	3.7	2.9	2.9	3.1
125°	3.1	3.1	3.7	4.5	5.3	5.3	4.5	3.1	2.6	2.6	2.9
127.5°	3.4	3.4	3.7	4.2	4.8	4.8	4.0	2.9	2.3	2.3	2.6
130°	3.4	3.4	3.4	4.0	4.2	4.0	3.4	2.6	2.3	2.3	2.6
132.5°	3.4	3.4	3.4	3.4	3.7	3.4	2.9	1.9	1.9	1.9	2.3
135°	3.1	3.1	2.9	3.1	3.1	2.6	1.9	1.4	1.7	1.7	1.9
137.5°	2.6	2.6	2.6	2.6	2.3	1.9	1.4	1.1	1.4	1.7	1.7
140°	2.3	2.3	1.9	1.9	1.7	1.4	0.8	1.1	1.4	1.4	1.4
142.5°	1.7	1.7	1.7	1.4	1.1	0.8	0.6	0.8	1.1	1.1	1.4
145°	1.1	1.1	1.1	0.8	0.6	0.3	0.6	0.6	0.8	1.1	1.1
147.5°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.6	0.8	0.8	0.8
150°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.6	0.8	0.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	56.2	55.9	55.0	54.5	53.9	53.6	53.4	53.4	53.1	52.8	52.8
5°	57.0	56.5	55.0	53.9	53.1	52.5	52.0	51.7	51.0	50.8	50.8
7.5°	58.7	57.9	56.2	54.2	52.8	52.0	51.4	50.8	50.2	50.2	50.2
10°	62.1	61.0	58.4	55.9	53.6	52.5	52.0	51.4	51.4	51.0	51.0
12.5°	70.6	68.8	64.7	60.1	56.2	54.5	53.9	55.3	57.0	57.3	58.1
15°	82.1	80.4	75.1	68.6	62.1	58.4	60.5	62.9	65.8	68.0	68.0
17.5°	96.6	94.5	87.3	78.2	70.3	68.0	68.6	72.2	76.2	78.2	78.5
20°	114.4	111.5	101.4	88.9	80.2	76.8	77.6	81.3	87.0	89.8	90.3
22.5°	136.7	132.4	118.9	101.4	90.6	86.1	87.0	91.5	99.1	103.0	104.4
25°	164.9	159.5	138.9	116.3	101.1	94.3	96.9	103.9	113.4	119.4	119.2
27.5°	197.3	188.8	163.2	131.9	111.5	102.2	106.2	116.0	127.6	134.4	135.2
30°	236.3	225.3	189.7	148.2	120.5	109.3	114.4	126.7	139.7	148.7	149.7
32.5°	279.5	266.5	216.8	164.6	127.9	114.6	120.3	135.7	150.8	161.4	161.7
35°	323.8	307.1	242.4	178.7	134.1	118.9	124.8	142.6	160.1	172.5	173.3
37.5°	366.1	346.7	266.2	188.0	138.0	121.1	127.4	148.2	168.0	181.3	182.1
40°	398.0	374.0	280.9	191.1	138.9	122.2	129.6	150.5	168.0	178.1	178.7
42.5°	438.1	406.5	291.6	188.0	136.7	122.2	130.4	147.6	161.2	168.0	168.0
45°	491.7	452.8	308.0	184.3	132.1	121.4	128.2	141.5	150.5	153.9	153.9
47.5°	555.9	505.0	324.7	181.8	128.7	119.4	124.8	133.8	138.6	138.9	138.3
50°	636.9	571.1	345.2	178.1	126.7	117.4	121.6	127.6	130.4	129.3	128.7
52.5°	714.2	629.8	359.9	173.6	125.6	116.6	120.0	125.1	125.9	122.5	121.6
55°	806.5	698.7	370.1	166.2	124.5	117.1	120.0	124.2	123.7	119.2	118.3
57.5°	898.6	763.3	379.1	159.8	123.4	118.0	121.1	124.8	123.7	119.4	118.6
60°	969.1	807.6	374.0	153.0	122.2	119.4	123.1	126.7	126.7	123.4	123.1
62.5°	1024.5	834.2	361.9	146.0	121.4	120.5	125.6	130.9	132.1	129.6	129.3
65°	1036.9	823.5	338.5	139.1	120.3	121.4	129.0	135.7	136.7	134.1	133.8
67°	1007.8	786.8	309.6	133.5	118.6	121.6	131.2	138.6	139.7	137.2	136.4
67.5°	995.1	772.3	302.4	132.1	118.0	121.6	131.6	138.9	140.3	137.8	136.9
70°	897.7	686.8	263.1	124.2	114.4	120.3	132.1	140.9	141.7	138.6	137.5
72.5°	743.9	553.8	217.7	116.6	109.8	116.6	130.1	139.4	139.1	134.6	133.8
75°	589.7	434.1	175.3	107.8	103.6	111.0	124.8	133.0	131.2	125.9	124.8
77.5°	448.0	324.7	142.6	99.1	96.6	103.6	115.7	121.6	118.3	113.2	112.1
80°	319.3	233.7	116.0	90.9	88.9	95.1	104.4	107.5	105.3	100.5	99.1
82.5°	223.3	168.0	96.6	82.8	81.6	86.3	92.3	95.4	94.3	90.0	88.9
85°	154.4	117.4	81.3	74.6	74.0	77.3	81.0	83.0	83.9	81.6	80.2
87.5°	103.9	86.3	69.2	65.5	65.8	68.3	70.9	72.8	75.4	75.1	73.7
90°	74.3	64.7	57.9	56.2	56.8	59.5	60.7	61.8	65.0	65.0	64.0
92.5°	53.1	49.1	46.9	46.3	47.5	49.7	50.2	50.5	52.8	53.1	51.4
95°	37.8	35.8	36.7	37.2	38.4	40.4	40.1	39.3	40.4	40.4	39.0
97.5°	27.9	27.4	29.1	29.7	30.5	32.2	31.3	30.0	30.8	29.7	28.7
100°	21.5	21.5	23.4	23.7	24.2	25.2	24.9	23.7	24.0	22.6	22.0
102.5°	17.0	17.2	18.6	18.9	19.4	20.4	19.7	19.2	18.6	17.0	17.0
105°	13.3	13.5	14.6	14.9	15.5	16.4	16.1	15.2	14.4	13.0	13.0
107.5°	10.1	10.7	11.6	11.9	12.4	13.3	13.0	11.9	10.7	9.9	9.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.9	8.5	9.3	9.6	9.9	10.7	10.1	9.0	8.2	7.7	7.7
112.5°	6.4	6.8	7.7	7.9	8.2	8.8	8.2	7.1	6.2	5.9	5.9
115°	5.3	5.6	6.2	6.4	7.1	7.1	6.4	5.3	4.8	4.8	4.8
117.5°	4.5	4.8	5.3	5.6	5.6	5.9	5.1	4.2	3.7	4.0	4.0
120°	4.0	4.0	4.5	4.5	4.8	4.8	4.2	3.4	2.9	3.1	3.4
122.5°	3.4	3.4	3.7	4.0	4.0	4.0	3.4	2.9	2.3	2.6	2.9
125°	2.9	3.1	3.1	3.4	3.4	3.4	2.9	2.3	1.9	2.3	2.3
127.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.3	1.7	1.7	1.9	1.9
130°	2.6	2.6	2.6	2.6	2.3	1.9	1.7	1.1	1.4	1.7	1.7
132.5°	2.3	2.3	2.3	1.9	1.7	1.4	1.1	0.8	0.8	1.4	1.4
135°	1.9	1.9	1.7	1.4	1.1	0.8	0.6	0.6	0.6	1.1	1.1
137.5°	1.7	1.7	1.4	1.1	0.8	0.6	0.3	0.0	0.3	0.6	0.6
140°	1.7	1.7	1.4	0.8	0.6	0.3	0.0	0.0	0.0	0.3	0.3
142.5°	1.4	1.4	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.8	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	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)