

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: P254316

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-T3-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7784.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

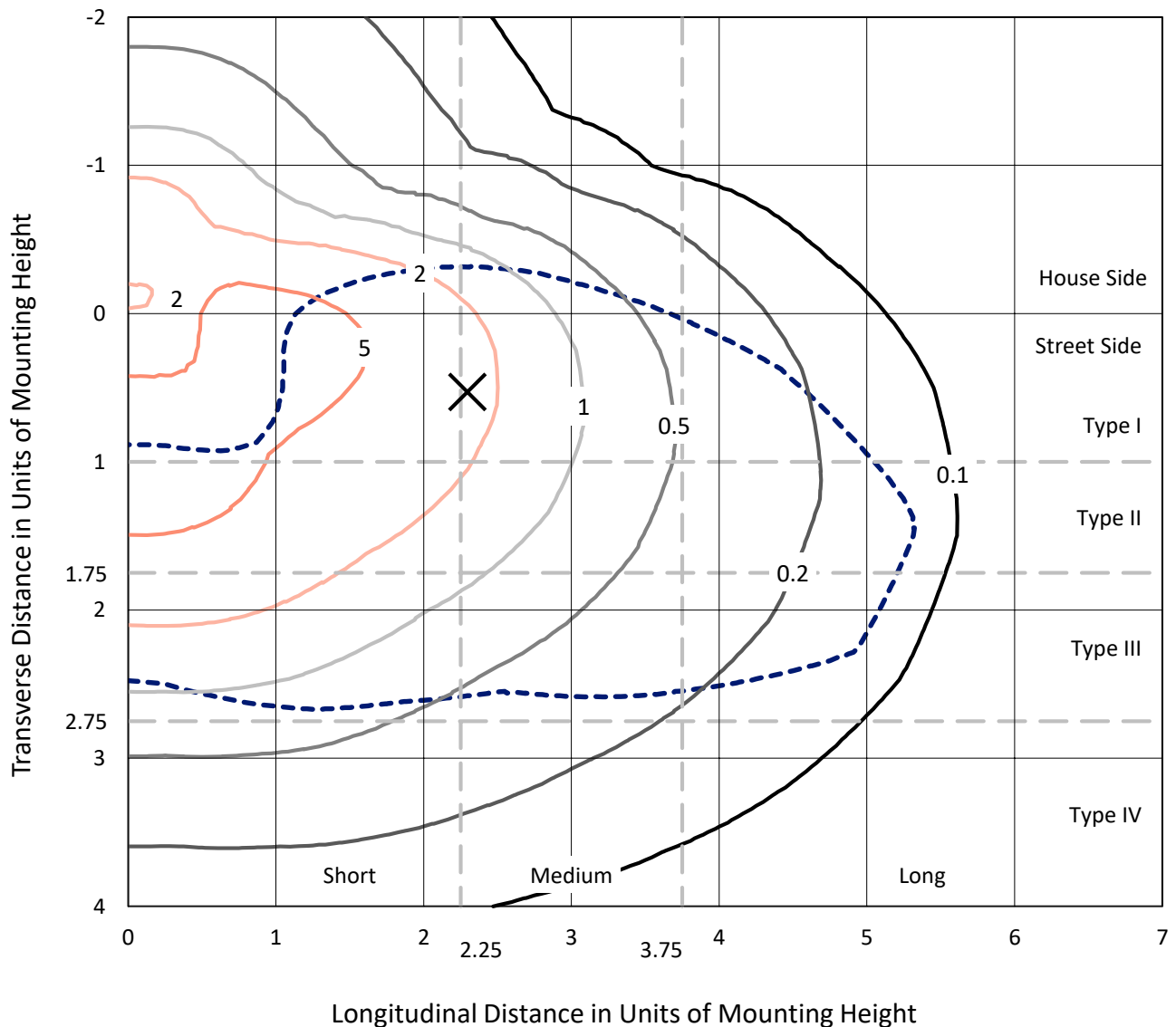
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

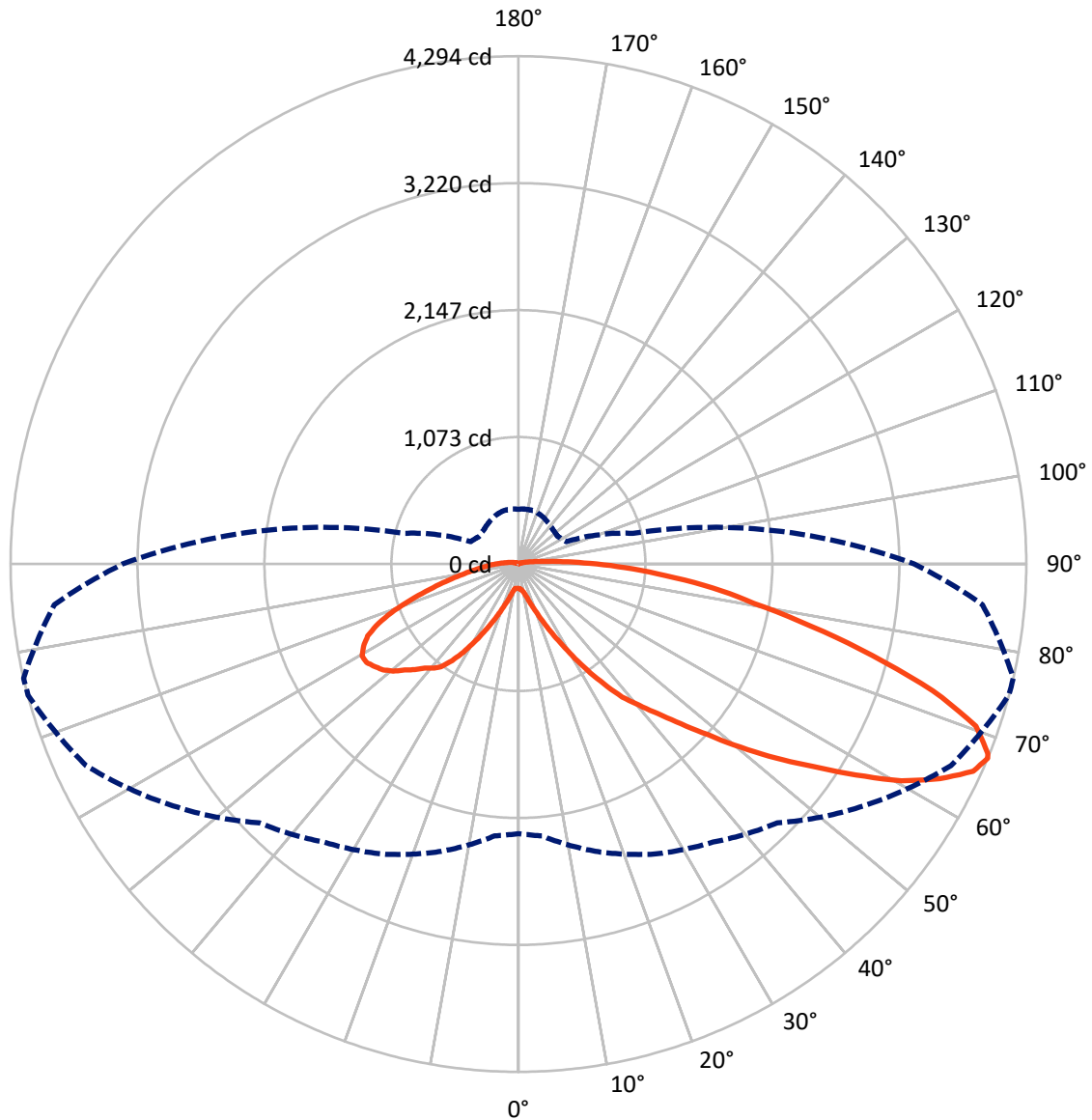
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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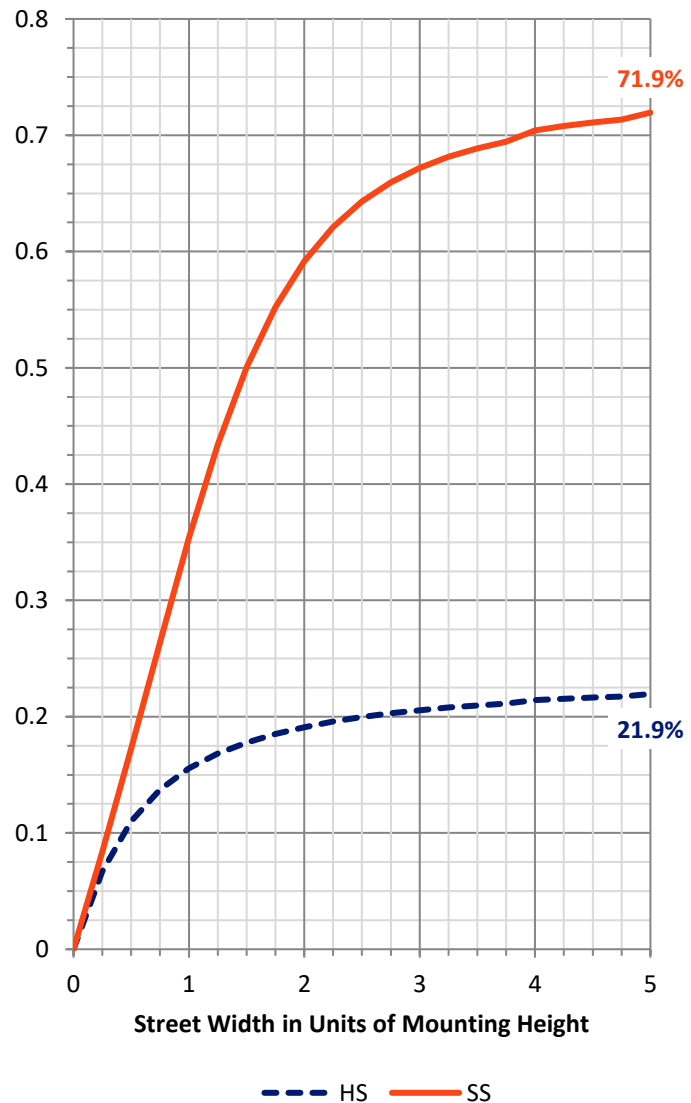
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.9	113.5	1898.5
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	5738.5	147.7	5886.2
	% Fixture	73.7	1.9	75.6
Total	Lumens	7523.4	261.2	7784.6
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	0.3
10°-20°	87.4	1.1
20°-30°	255.6	3.3
30°-40°	594.0	7.6
40°-50°	1042.0	13.4
50°-60°	1601.3	20.6
60°-70°	1980.2	25.4
70°-80°	1382.4	17.8
80°-90°	559.5	7.2
90°-100°	165.3	2.1
100°-110°	53.4	0.7
110°-120°	22.7	0.3
120°-130°	11.8	0.2
130°-140°	6.0	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7523.4	96.6
0°-180°	7784.6	100.0



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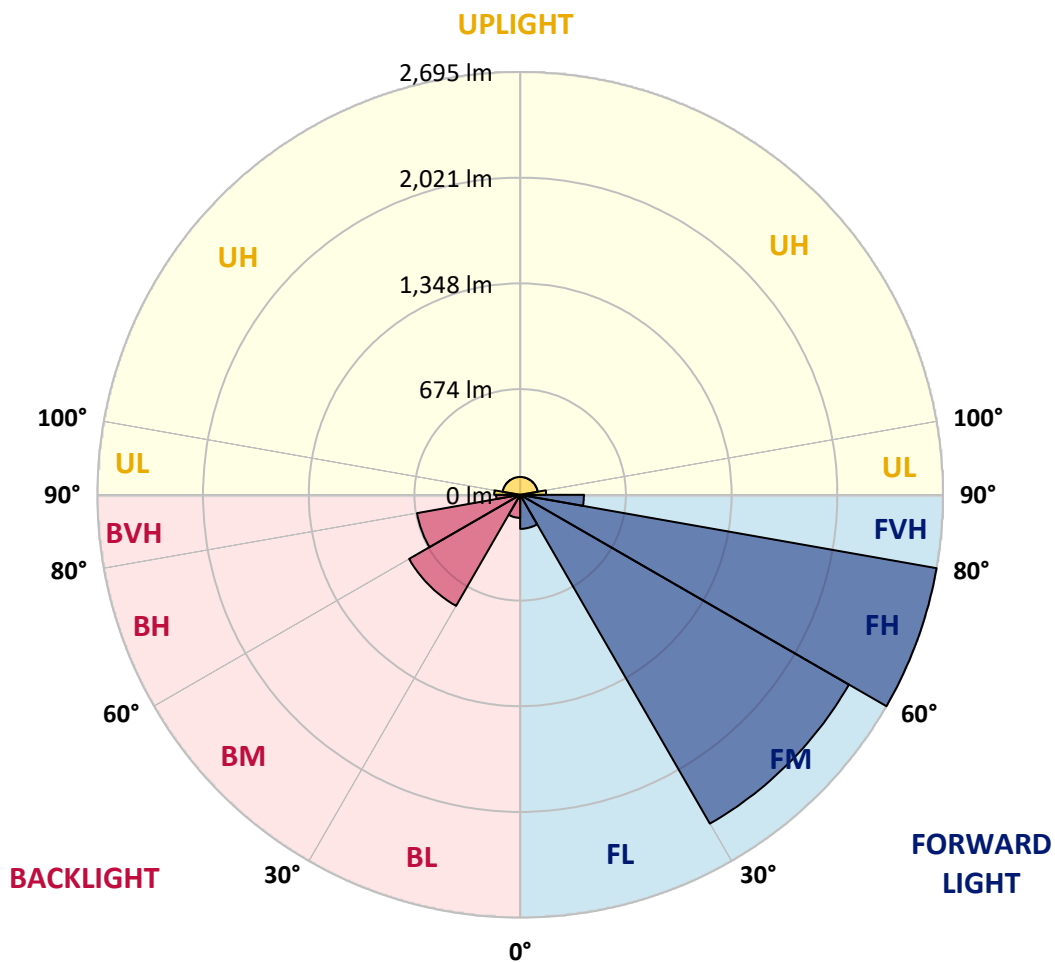
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.0	2.8			
FM	(30°-60°)	2419.8	31.1			
FH	(60°-80°)	2695.1	34.6			G2/5000
FVH	(80°-90°)	406.5	5.2			G3/500
BL	(0°-30°)	146.9	1.9	B1/500		
BM	(30°-60°)	817.5	10.5	B1/1000		
BH	(60°-80°)	667.5	8.6	B2/1000		G2/1000
BVH	(80°-90°)	153.0	2.0			G2/225
UL	(90°-100°)	165.3	2.1		U3/500	
UH	(100°-180°)	113.5	1.5		U3/500	

BUG Rating: B2-U3-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0
2.5°	220.2	221.2	221.2	221.2	220.2	218.3	215.5	213.7	210.8	209.9	208.1
5°	237.1	237.1	237.1	236.1	234.3	230.5	226.8	222.1	216.5	215.5	211.8
7.5°	255.8	256.8	255.8	253.9	249.3	245.5	239.9	233.3	226.8	224.8	220.2
10°	282.9	282.9	281.1	277.3	270.8	263.3	256.8	249.3	242.7	240.8	235.2
12.5°	324.2	324.2	320.5	310.2	299.8	289.6	282.0	276.4	272.7	269.9	266.2
15°	376.7	377.7	372.0	356.1	343.0	327.0	320.5	319.6	318.5	315.8	312.0
17.5°	440.4	440.4	431.1	409.5	392.6	377.7	371.0	371.0	371.0	371.0	369.2
20°	516.3	517.2	505.0	474.1	456.3	438.5	432.0	432.9	436.7	437.6	437.6
22.5°	613.8	617.6	598.7	556.6	535.1	508.8	504.1	508.8	519.1	521.9	526.6
25°	746.9	741.2	716.9	661.5	629.7	597.8	590.3	603.4	623.2	628.8	639.0
27.5°	886.5	887.4	852.7	785.2	731.8	693.5	689.7	715.9	744.0	751.6	768.3
30°	1064.5	1066.3	1013.8	930.5	850.9	802.1	802.1	845.3	888.3	900.5	927.7
32.5°	1278.2	1276.2	1198.5	1098.2	987.7	927.7	929.6	992.4	1054.2	1068.3	1093.5
35°	1526.4	1523.7	1420.6	1288.4	1141.3	1063.6	1072.0	1151.6	1231.3	1244.4	1284.7
37.5°	1780.4	1783.2	1668.8	1501.2	1310.9	1208.8	1224.7	1319.4	1416.8	1426.2	1458.0
40°	2010.0	2024.0	1908.7	1721.3	1494.6	1361.5	1380.3	1471.2	1566.8	1570.5	1582.7
42.5°	2230.1	2232.1	2135.5	1935.9	1684.8	1530.2	1532.1	1619.2	1710.1	1726.0	1731.7
45°	2370.7	2390.4	2312.7	2132.8	1876.9	1702.6	1686.6	1773.8	1907.8	1926.6	1926.6
47.5°	2531.0	2551.5	2462.5	2309.8	2062.5	1876.0	1862.9	1974.4	2134.6	2154.2	2146.8
50°	2710.9	2736.2	2671.5	2505.7	2247.0	2060.5	2083.0	2213.4	2407.3	2435.4	2427.0
52.5°	2847.7	2874.9	2835.5	2718.4	2454.2	2276.1	2300.4	2482.3	2696.8	2724.9	2693.1
55°	2898.3	2935.8	2947.9	2888.0	2667.8	2504.7	2579.7	2776.5	2987.3	3017.3	2983.5
57.5°	2896.4	2934.8	2981.7	2973.3	2846.8	2740.0	2849.5	3079.2	3334.0	3364.0	3329.3
60°	2875.8	2920.8	3007.0	3018.2	2947.0	2947.0	3124.1	3439.9	3694.8	3722.0	3622.7
62.5°	2696.8	2753.1	2910.5	3023.8	3002.4	3080.1	3375.2	3738.8	3985.3	3998.4	3811.9
65°	2472.9	2525.4	2698.7	2882.4	2984.5	3127.0	3539.2	3951.6	4209.2	4224.3	3956.3
67°	2278.9	2307.1	2514.1	2706.2	2869.3	3095.0	3564.6	4033.1	4290.8	4293.5	3938.5
67.5°	2209.6	2238.6	2449.5	2654.7	2829.0	3072.6	3551.4	4040.6	4286.1	4280.4	3904.7
70°	1846.0	1862.9	2083.0	2347.3	2543.2	2829.9	3388.4	3895.3	4121.2	4104.3	3674.1
72.5°	1364.3	1378.4	1607.1	1928.5	2159.9	2475.6	3035.1	3586.1	3711.7	3665.7	3163.5
75°	945.5	956.8	1134.8	1409.3	1712.9	2046.5	2594.7	3052.0	3144.8	3087.6	2621.8
77.5°	625.0	633.4	772.1	988.6	1267.8	1636.1	2111.2	2521.6	2596.6	2530.1	2105.5
80°	396.4	402.9	506.1	676.6	929.6	1283.8	1695.1	2051.2	2083.0	2020.3	1645.4
82.5°	251.1	257.7	327.0	458.2	667.2	977.3	1333.4	1653.0	1696.1	1658.6	1286.6
85°	161.2	170.5	220.2	313.9	473.2	716.9	1039.2	1314.7	1310.0	1248.1	944.6
87.5°	114.4	121.8	159.3	223.9	333.6	507.9	760.0	953.9	942.6	901.4	656.8
90°	85.3	90.9	118.0	163.1	239.9	356.1	526.6	660.6	627.8	602.5	433.8
92.5°	62.8	67.5	88.1	119.0	171.4	249.3	347.6	427.3	393.5	375.7	274.6
95°	45.9	48.7	64.7	87.2	124.6	173.4	227.7	268.9	241.7	229.6	173.4
97.5°	35.6	37.4	49.6	67.5	92.8	124.6	153.6	168.7	153.6	146.2	120.0
100°	30.0	30.9	41.2	53.4	73.1	94.6	109.7	115.3	105.9	101.2	87.2
102.5°	25.3	26.2	33.8	44.1	59.0	75.0	82.4	84.3	75.9	73.1	65.6
105°	21.6	22.5	29.1	37.4	49.6	60.9	64.7	62.8	55.2	53.4	49.6
107.5°	18.7	19.6	24.3	31.8	41.2	50.6	51.6	47.8	41.2	39.4	37.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	16.9	16.9	21.6	27.2	35.6	42.1	42.1	36.5	30.9	30.0	30.0
112.5°	15.0	15.0	18.7	23.4	30.9	35.6	34.7	29.1	23.4	22.5	23.4
115°	13.1	13.1	16.0	21.6	27.2	30.9	29.1	23.4	17.8	17.8	19.6
117.5°	12.2	12.2	15.0	19.6	24.3	27.2	24.3	18.7	15.0	15.0	16.0
120°	11.3	11.3	14.0	17.8	22.5	24.3	21.6	16.0	12.2	12.2	14.0
122.5°	11.3	11.3	13.1	16.9	20.7	21.6	18.7	14.0	10.3	11.3	12.2
125°	11.3	12.2	13.1	16.0	18.7	18.7	16.0	12.2	9.4	9.4	11.3
127.5°	12.2	12.2	13.1	15.0	16.9	16.9	14.0	10.3	9.4	9.4	10.3
130°	13.1	13.1	13.1	14.0	15.0	14.0	12.2	9.4	8.4	8.4	9.4
132.5°	13.1	13.1	13.1	13.1	13.1	12.2	10.3	8.4	7.5	8.4	9.4
135°	12.2	12.2	12.2	12.2	11.3	10.3	8.4	6.5	6.5	6.5	7.5
137.5°	11.3	10.3	10.3	10.3	9.4	8.4	6.5	4.7	5.6	5.6	6.5
140°	9.4	9.4	9.4	8.4	7.5	6.5	4.7	3.8	4.7	4.7	5.6
142.5°	7.5	7.5	7.5	6.5	5.6	4.7	2.8	2.8	3.8	4.7	4.7
145°	5.6	5.6	5.6	4.7	3.8	2.8	1.8	2.8	3.8	3.8	3.8
147.5°	3.8	3.8	3.8	3.8	1.8	0.9	1.8	1.8	2.8	2.8	3.8
150°	1.8	1.8	2.8	1.8	0.9	0.9	0.9	1.8	1.8	2.8	2.8
152.5°	0.9	0.9	1.8	0.9	0.0	0.0	0.0	0.9	1.8	1.8	1.8
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0
2.5°	207.0	206.1	204.3	201.4	199.6	198.7	198.7	196.8	196.8	196.8	195.8
5°	210.8	208.1	204.3	200.5	196.8	194.0	193.0	191.2	189.2	189.2	188.3
7.5°	216.5	213.7	207.0	201.4	195.8	192.1	190.3	188.3	186.5	185.6	184.6
10°	231.5	227.7	217.4	208.1	200.5	194.9	192.1	190.3	188.3	188.3	187.4
12.5°	262.4	255.8	242.7	226.8	210.8	202.4	199.6	206.1	209.0	211.8	211.8
15°	308.3	301.8	282.0	258.6	235.2	219.3	223.9	233.3	240.8	245.5	245.5
17.5°	364.5	354.2	329.8	296.1	265.1	253.9	252.1	262.4	273.6	280.2	280.2
20°	431.1	418.9	385.1	339.2	304.5	287.7	284.0	293.3	306.4	316.7	316.7
22.5°	517.2	503.2	453.6	388.9	343.9	320.5	315.8	325.2	343.9	357.9	357.0
25°	629.7	607.2	538.8	448.9	383.3	350.5	346.7	361.7	387.0	406.7	409.5
27.5°	760.0	728.1	625.9	513.5	421.7	376.7	377.7	398.2	429.1	450.7	450.7
30°	907.1	873.3	730.9	577.3	454.5	399.2	402.9	430.2	461.0	482.6	482.6
32.5°	1077.6	1028.0	841.5	640.0	483.5	416.0	419.8	452.6	483.5	507.0	507.9
35°	1250.0	1182.5	941.7	691.5	507.9	430.2	432.0	470.4	504.1	530.4	533.2
37.5°	1407.5	1320.3	1030.7	727.1	519.1	436.7	439.5	483.5	522.8	547.3	547.3
40°	1519.9	1410.2	1073.9	735.6	521.9	438.5	446.9	491.9	521.9	533.2	528.5
42.5°	1647.4	1512.4	1101.0	721.5	511.7	437.6	450.7	486.3	502.3	503.2	498.5
45°	1825.4	1650.1	1150.7	709.3	492.9	435.8	446.0	472.3	477.0	468.5	462.9
47.5°	2031.5	1800.1	1191.9	694.4	480.7	431.1	439.5	455.4	451.6	436.7	432.0
50°	2263.9	1990.3	1243.5	675.7	471.4	425.4	432.9	443.2	438.5	422.6	418.9
52.5°	2491.6	2157.1	1276.2	655.9	462.9	422.6	428.2	440.4	434.8	416.0	410.4
55°	2730.6	2326.7	1283.8	622.2	456.3	422.6	429.1	442.3	435.8	416.0	410.4
57.5°	3011.7	2509.4	1283.8	582.9	446.0	424.5	432.0	445.1	439.5	419.8	415.1
60°	3240.3	2639.6	1256.6	548.2	433.8	424.5	432.9	446.9	446.0	432.0	429.1
62.5°	3366.8	2687.5	1182.5	509.7	423.5	421.7	433.8	451.6	458.2	448.0	445.1
65°	3434.3	2671.5	1096.4	471.4	414.2	416.0	433.8	454.5	464.7	459.2	455.4
67°	3346.2	2559.1	1001.7	445.1	404.8	411.3	432.0	454.5	468.5	466.7	462.9
67.5°	3302.2	2514.1	974.6	440.4	402.0	410.4	431.1	454.5	468.5	468.5	464.7
70°	3027.6	2261.1	833.0	405.7	384.2	396.4	420.7	449.8	465.7	466.7	464.7
72.5°	2559.1	1859.1	687.8	373.0	361.7	375.7	405.7	435.8	450.7	448.9	446.9
75°	2085.0	1499.2	560.4	341.1	335.4	351.4	378.6	406.7	417.0	412.4	410.4
77.5°	1651.0	1169.4	459.2	310.2	309.2	323.3	344.8	365.5	371.0	362.6	361.7
80°	1268.8	894.0	375.7	284.9	282.0	292.4	307.4	321.4	325.2	316.7	314.9
82.5°	971.7	677.5	312.0	256.8	255.8	261.5	271.7	281.1	287.7	279.3	276.4
85°	702.8	495.7	262.4	226.8	227.7	230.5	237.1	243.7	253.0	250.2	246.4
87.5°	490.1	359.9	223.0	198.7	198.7	200.5	204.3	210.8	223.0	222.1	218.3
90°	333.6	259.5	187.4	173.4	170.5	171.4	174.3	178.0	189.2	188.3	185.6
92.5°	223.0	184.6	151.8	143.4	142.4	143.4	143.4	146.2	151.8	148.9	146.2
95°	148.9	133.1	120.9	116.2	114.4	115.3	115.3	113.3	117.1	112.4	109.7
97.5°	106.8	100.2	97.5	93.7	90.9	91.9	91.9	89.9	90.9	84.3	82.4
100°	81.5	79.7	79.7	75.9	73.1	74.1	74.1	73.1	72.1	64.7	63.7
102.5°	64.7	63.7	64.7	61.9	59.0	60.9	59.9	59.0	57.2	50.6	49.6
105°	50.6	50.6	53.4	50.6	48.7	49.6	49.6	47.8	45.9	40.3	40.3
107.5°	39.4	40.3	43.1	41.2	40.3	41.2	40.3	38.5	35.6	31.8	31.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	30.9	32.8	35.6	34.7	33.8	34.7	32.8	30.9	28.1	26.2	26.2
112.5°	25.3	26.2	29.1	29.1	28.1	29.1	27.2	24.3	22.5	21.6	21.6
115°	20.7	22.5	24.3	24.3	24.3	24.3	22.5	19.6	17.8	17.8	17.8
117.5°	17.8	18.7	20.7	20.7	20.7	20.7	18.7	16.0	14.0	15.0	15.0
120°	15.0	16.0	17.8	17.8	17.8	17.8	16.0	13.1	11.3	12.2	12.2
122.5°	13.1	14.0	15.0	16.0	16.0	15.0	13.1	11.3	9.4	10.3	10.3
125°	12.2	13.1	13.1	14.0	13.1	13.1	11.3	9.4	8.4	9.4	9.4
127.5°	11.3	12.2	12.2	12.2	12.2	10.3	9.4	7.5	6.5	7.5	8.4
130°	10.3	11.3	11.3	10.3	9.4	8.4	7.5	6.5	5.6	6.5	7.5
132.5°	10.3	10.3	10.3	9.4	8.4	6.5	5.6	4.7	4.7	5.6	6.5
135°	8.4	8.4	8.4	7.5	5.6	4.7	3.8	3.8	3.8	4.7	4.7
137.5°	6.5	7.5	6.5	5.6	4.7	3.8	2.8	2.8	2.8	3.8	3.8
140°	5.6	5.6	5.6	4.7	3.8	1.8	0.9	0.9	1.8	1.8	2.8
142.5°	4.7	5.6	4.7	3.8	2.8	0.9	0.0	0.9	0.9	0.9	0.9
145°	4.7	4.7	3.8	2.8	1.8	0.9	0.0	0.0	0.9	0.0	0.0
147.5°	3.8	3.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.8	2.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	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)