

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: P254423

Luminaire Tested: **LXF.LXT-AF24-70-D-U-SL3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-SL3-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6849.7 lumens
Efficiency: N/A
Efficacy: 92.6 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: B2 - U3 - G3

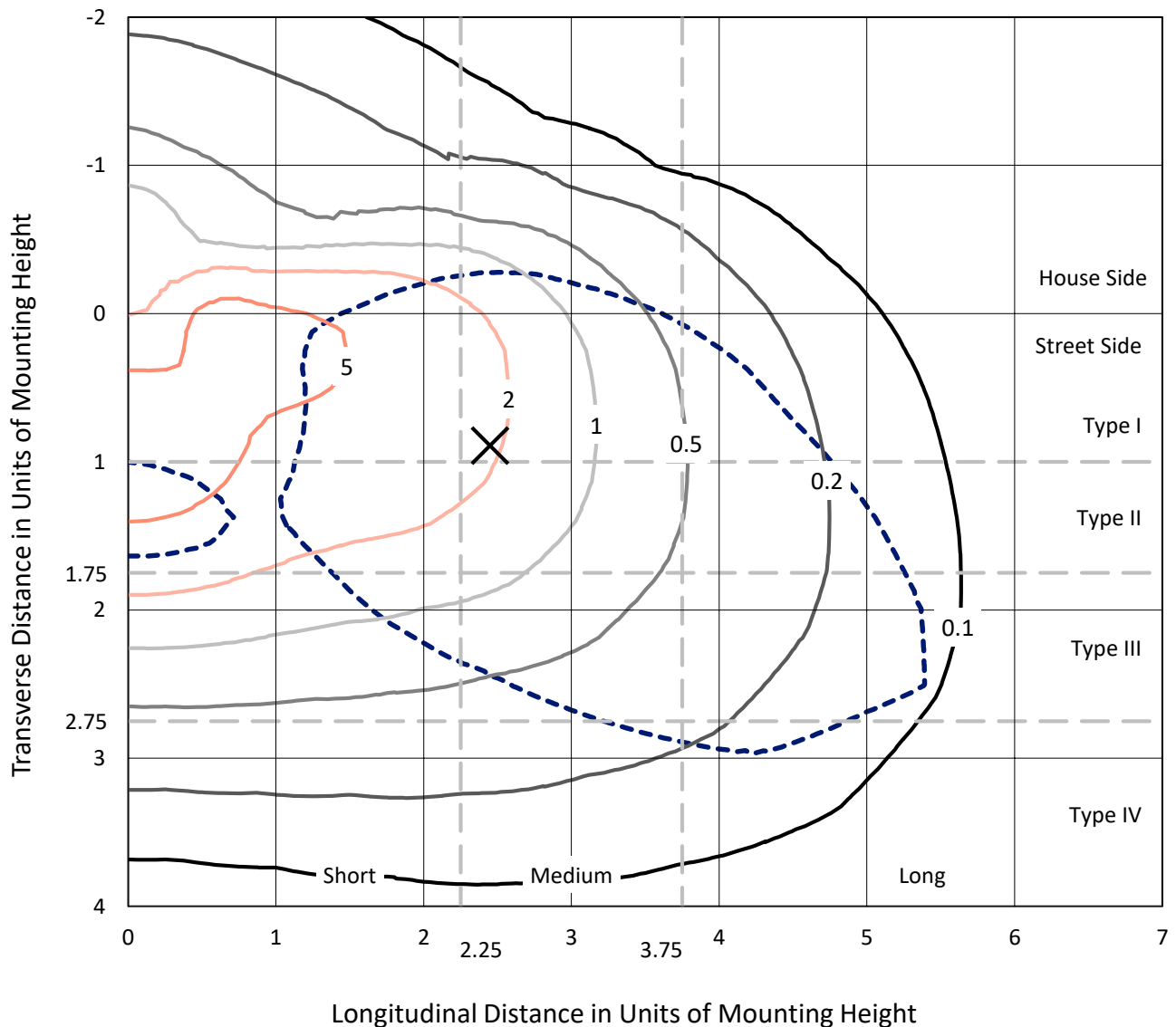
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

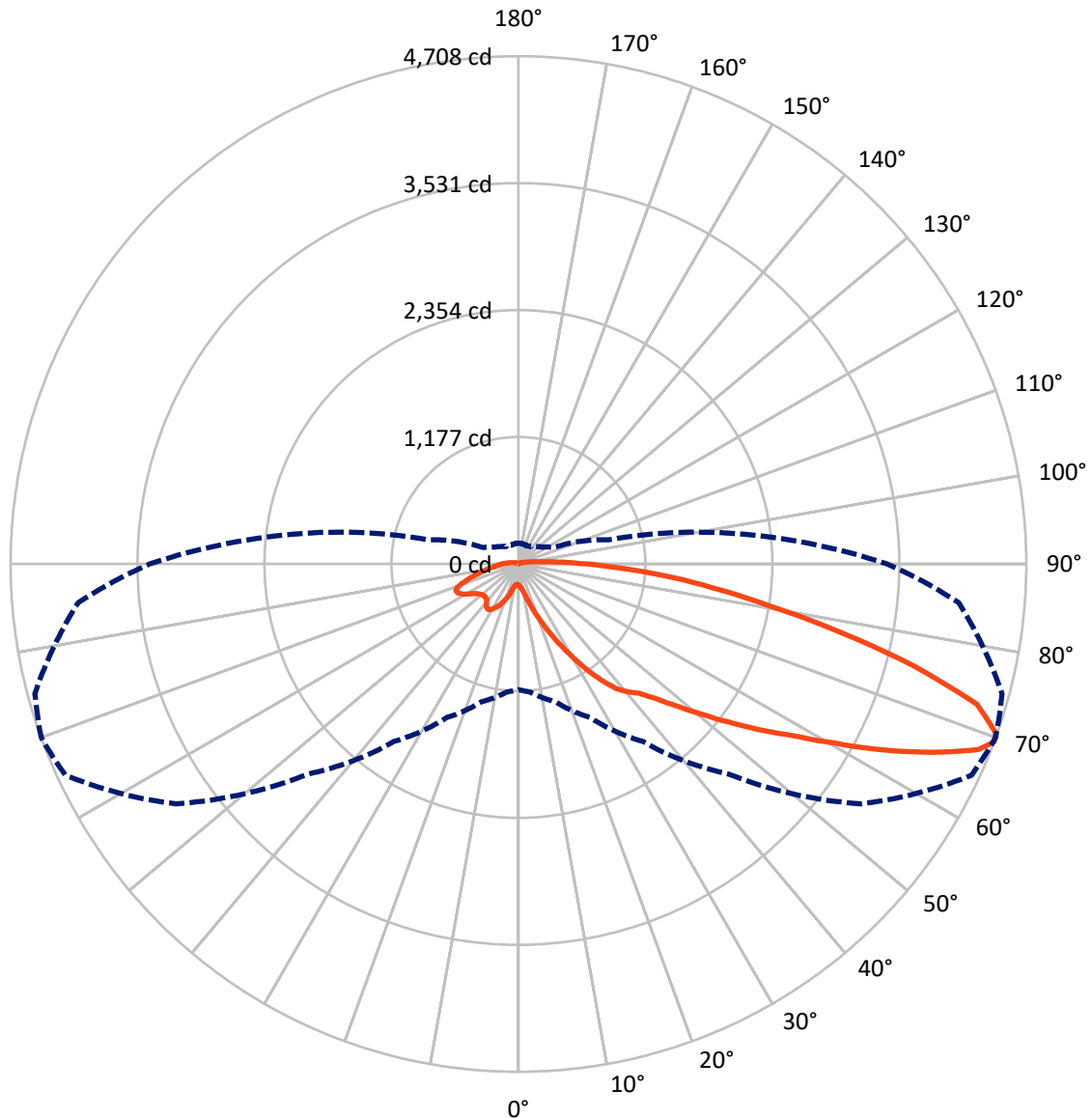


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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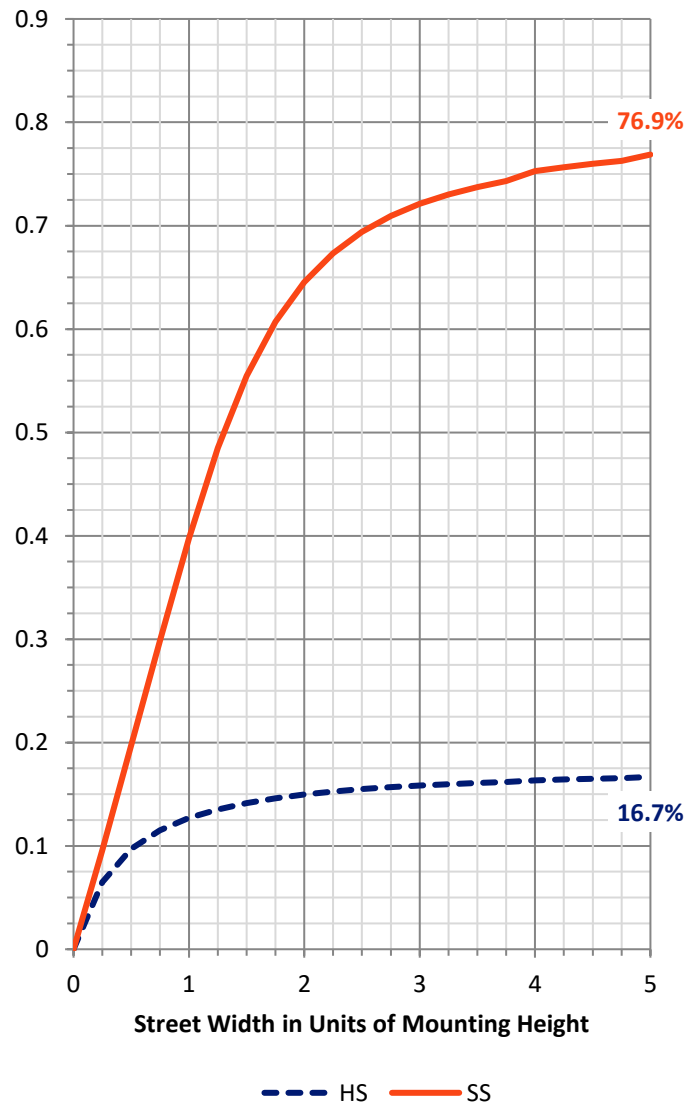
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.4	94.1	1285.5
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	5409.2	155.0	5564.2
	% Fixture	79.0	2.3	81.2
Total	Lumens	6600.6	249.1	6849.7
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	0.3
10°-20°	88.0	1.3
20°-30°	244.7	3.6
30°-40°	516.9	7.5
40°-50°	867.3	12.7
50°-60°	1307.6	19.1
60°-70°	1701.4	24.8
70°-80°	1330.4	19.4
80°-90°	524.1	7.7
90°-100°	155.4	2.3
100°-110°	50.9	0.7
110°-120°	21.9	0.3
120°-130°	11.8	0.2
130°-140°	6.3	0.1
140°-150°	2.2	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6600.6	96.4
0°-180°	6849.7	100.0

Coefficient of Utilization



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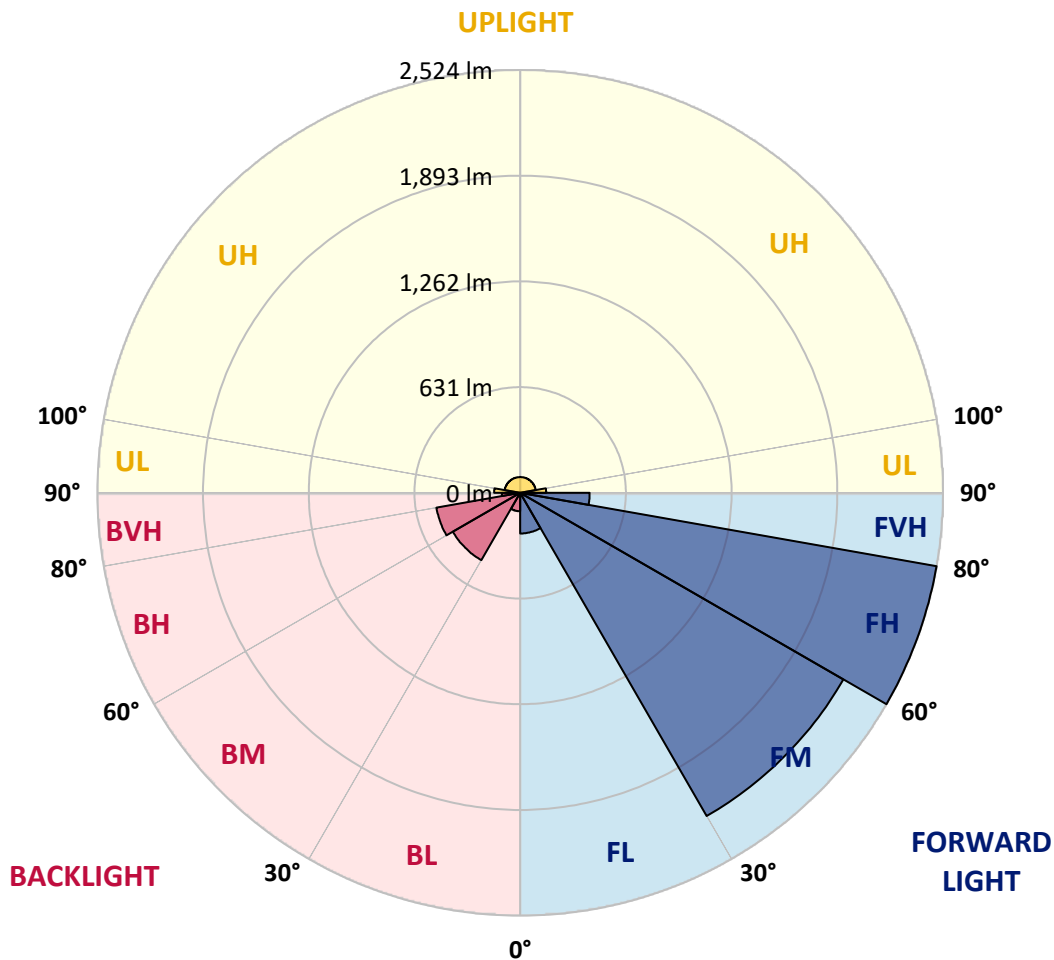
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.8	3.5			
FM (30°-60°)	2227.7	32.5			
FH (60°-80°)	2524.1	36.8			G2/5000
FVH (80°-90°)	414.6	6.1			G3/500
BL (0°-30°)	110.1	1.6	B1/500		
BM (30°-60°)	464.1	6.8	B1/1000		
BH (60°-80°)	507.7	7.4	B2/1000		G2/1000
BVH (80°-90°)	109.5	1.6			G2/225
UL (90°-100°)	155.4	2.3		U3/500	
UH (100°-180°)	94.1	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4
2.5°	218.6	218.6	219.4	218.6	217.7	214.3	210.8	206.5	204.9	203.2	198.9
5°	243.5	243.5	242.5	240.9	239.2	233.1	228.0	221.2	217.7	214.3	206.5
7.5°	273.4	272.6	271.7	268.3	264.8	257.2	249.4	240.9	235.7	231.4	221.2
10°	309.4	308.6	307.7	301.7	296.6	288.0	280.3	269.1	264.8	258.9	244.3
12.5°	355.7	358.3	353.1	343.7	336.9	324.9	319.7	312.0	306.9	304.3	288.9
15°	414.0	415.7	408.9	393.4	384.0	372.0	373.7	374.6	372.0	372.0	353.1
17.5°	484.3	480.9	475.7	453.5	438.8	433.7	441.4	449.2	450.8	453.5	433.7
20°	572.5	574.3	558.8	526.3	503.2	504.8	514.3	528.9	535.7	541.8	521.2
22.5°	693.5	679.8	661.7	615.4	583.7	576.8	591.5	619.7	630.9	646.3	626.6
25°	822.9	809.2	777.4	724.2	676.3	655.7	679.8	728.5	747.5	773.1	756.0
27.5°	960.9	949.7	901.7	845.2	780.0	744.0	775.7	841.7	871.8	904.3	885.5
30°	1109.2	1096.3	1039.7	972.8	890.6	845.2	870.0	965.2	1014.9	1059.5	1050.9
32.5°	1285.7	1268.6	1199.1	1114.3	1006.3	952.3	978.9	1108.3	1170.9	1228.3	1216.3
35°	1482.9	1474.3	1381.7	1273.7	1140.9	1064.6	1101.4	1242.0	1320.8	1381.7	1365.4
37.5°	1709.1	1698.9	1593.5	1450.3	1281.5	1185.4	1212.9	1370.5	1462.3	1526.5	1490.5
40°	1920.0	1909.7	1805.2	1637.1	1428.0	1312.3	1335.5	1476.0	1559.2	1611.5	1545.5
42.5°	2145.4	2125.7	2009.2	1815.4	1584.0	1446.9	1441.7	1556.6	1636.3	1704.0	1635.4
45°	2344.3	2339.2	2214.0	1992.0	1740.9	1578.8	1545.5	1673.1	1777.7	1868.6	1798.3
47.5°	2469.4	2462.5	2370.9	2149.7	1878.0	1707.4	1683.5	1839.5	1962.0	2060.6	1979.2
50°	2536.3	2533.7	2468.6	2269.7	2015.1	1848.9	1866.0	2042.6	2180.6	2304.0	2216.6
52.5°	2565.5	2565.5	2514.9	2355.4	2136.8	2010.9	2075.2	2277.5	2432.6	2565.5	2448.8
55°	2562.0	2562.9	2510.6	2376.0	2233.7	2180.6	2313.4	2555.1	2712.0	2855.2	2718.9
57.5°	2454.1	2460.9	2449.8	2362.3	2286.0	2352.9	2587.8	2853.4	3000.9	3136.3	2983.7
60°	2194.3	2212.3	2251.7	2268.9	2298.1	2516.6	2873.2	3190.3	3372.9	3538.3	3413.2
62.5°	1943.2	1958.5	2013.5	2088.0	2265.4	2640.8	3190.3	3652.3	3798.0	3956.6	3724.4
65°	1638.1	1662.0	1769.2	1910.6	2186.6	2728.3	3540.0	4085.2	4210.4	4286.6	3998.6
67.5°	1331.2	1353.5	1482.1	1707.4	2083.8	2778.8	3798.0	4470.9	4594.3	4602.1	4174.4
69°	1164.8	1189.7	1321.8	1570.3	2007.4	2751.4	3876.9	4633.8	4707.5	4640.6	4095.5
70°	1075.7	1075.7	1222.3	1476.0	1940.5	2700.9	3889.8	4645.7	4693.7	4595.2	4012.3
72.5°	780.0	788.6	942.0	1237.8	1727.2	2496.9	3674.6	4415.2	4442.6	4177.7	3456.9
75°	534.9	543.4	678.8	961.7	1451.2	2172.8	3241.7	3818.6	3794.6	3503.2	2795.2
77.5°	370.3	376.2	479.2	701.1	1147.8	1798.3	2701.7	3121.7	3062.6	2790.0	2091.4
80°	259.7	265.8	344.5	521.2	870.8	1415.2	2142.1	2445.5	2359.7	2117.2	1536.1
82.5°	182.6	187.7	252.9	394.2	660.0	1101.4	1689.4	1902.0	1817.2	1602.0	1098.0
85°	130.3	133.7	183.4	300.0	505.7	821.1	1282.3	1425.5	1338.8	1140.0	729.5
87.5°	94.3	97.7	135.4	226.3	391.7	638.5	948.0	1008.8	888.0	721.7	461.1
90°	71.1	73.8	102.0	169.7	305.1	468.8	678.8	657.5	569.2	455.1	307.7
92.5°	53.2	54.8	78.1	128.6	234.1	364.3	471.5	428.6	354.9	288.0	210.0
95°	39.4	41.1	59.1	96.9	173.2	261.5	307.7	264.8	221.2	182.6	143.1
97.5°	30.0	31.7	46.2	73.8	125.1	184.3	198.9	168.9	146.6	125.1	102.0
100°	24.0	24.9	36.0	56.6	90.0	126.0	137.2	117.4	102.9	91.8	77.1
102.5°	18.8	20.6	29.2	44.6	68.5	93.4	99.4	85.7	76.3	68.5	60.9
105°	16.3	17.2	24.0	36.0	54.0	70.3	75.4	64.2	56.6	51.5	47.2
107.5°	14.5	14.5	20.6	30.0	43.7	55.8	58.3	48.0	42.0	38.6	36.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	12.9	12.9	18.0	25.7	36.8	46.2	45.4	36.0	31.7	28.3	28.3
112.5°	12.0	12.0	15.4	23.1	31.7	38.6	36.0	28.3	24.9	21.4	23.1
115°	11.2	11.2	14.5	20.6	28.3	32.5	30.0	22.3	18.8	17.2	18.8
117.5°	11.2	11.2	13.7	18.8	25.7	28.3	25.7	18.8	15.4	14.5	16.3
120°	11.2	11.2	13.7	18.0	23.1	24.9	21.4	15.4	13.7	12.0	14.5
122.5°	11.2	11.2	12.9	17.2	21.4	22.3	18.8	13.7	11.2	11.2	12.9
125°	12.0	12.0	13.7	17.2	19.7	19.7	16.3	12.0	10.3	10.3	12.9
127.5°	12.9	12.9	13.7	16.3	18.0	17.2	14.5	11.2	10.3	10.3	12.0
130°	13.7	13.7	14.5	15.4	16.3	14.5	12.0	10.3	9.4	10.3	12.0
132.5°	13.7	13.7	13.7	14.5	14.5	12.9	10.3	8.6	8.6	9.4	11.2
135°	12.9	12.9	12.9	12.9	12.9	10.3	8.6	7.7	7.7	8.6	10.3
137.5°	11.2	11.2	10.3	10.3	10.3	8.6	6.9	6.0	6.0	6.9	8.6
140°	8.6	8.6	8.6	8.6	8.6	6.9	5.1	4.3	5.1	6.0	6.9
142.5°	6.9	6.9	6.9	6.9	6.9	5.1	3.5	4.3	5.1	5.1	6.0
145°	6.0	5.1	5.1	5.1	5.1	3.5	2.6	3.5	4.3	5.1	5.1
147.5°	4.3	4.3	4.3	4.3	3.5	1.7	1.7	3.5	3.5	4.3	5.1
150°	2.6	2.6	2.6	2.6	1.7	0.8	1.7	2.6	3.5	3.5	4.3
152.5°	0.8	0.8	1.7	1.7	0.8	0.0	0.8	1.7	2.6	2.6	3.5
155°	0.0	0.0	0.8	1.7	0.0	0.0	0.8	1.7	1.7	2.6	2.6
157.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.7	1.7	2.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4
2.5°	196.3	194.6	191.2	188.5	185.2	182.6	182.6	180.0	180.0	179.1	178.3
5°	203.2	200.6	192.0	186.0	180.0	174.8	171.4	168.9	166.3	164.6	163.7
7.5°	216.0	210.0	198.0	187.7	177.4	169.7	162.9	158.6	155.2	154.3	152.5
10°	237.4	230.6	211.8	194.6	179.1	166.3	157.7	151.7	148.3	147.4	146.6
12.5°	279.5	269.1	241.7	213.4	184.3	164.6	153.4	152.5	153.4	155.2	156.0
15°	340.3	329.2	287.1	242.5	198.0	167.2	161.1	162.9	165.4	168.0	168.0
17.5°	414.9	396.0	339.4	275.2	215.1	182.6	168.9	170.5	175.7	180.0	180.0
20°	498.0	468.0	388.3	299.1	231.4	192.8	176.6	177.4	185.2	190.3	191.2
22.5°	599.1	553.7	439.8	318.9	240.9	197.1	181.7	182.6	194.6	203.2	204.0
25°	713.1	654.0	498.9	340.3	244.3	195.4	184.3	190.3	209.2	223.7	224.5
27.5°	827.2	745.7	544.3	354.9	241.7	190.3	186.0	198.9	222.0	235.7	237.4
30°	974.6	872.6	594.8	360.9	233.1	185.2	186.0	202.2	222.0	235.7	236.6
32.5°	1121.2	982.3	636.0	365.2	223.7	180.9	183.4	198.0	216.9	232.3	233.1
35°	1245.4	1069.7	654.0	356.6	215.1	178.3	179.1	193.7	215.1	234.1	234.9
37.5°	1337.2	1126.3	652.3	336.0	204.9	175.7	176.6	192.8	216.9	237.4	240.0
40°	1368.0	1129.7	619.7	306.0	198.0	174.8	177.4	192.8	215.1	232.3	234.9
42.5°	1440.0	1159.7	597.4	279.5	192.8	176.6	180.0	190.3	206.5	222.9	226.3
45°	1568.6	1241.1	603.4	266.6	192.0	180.9	181.7	187.7	198.9	214.3	218.6
47.5°	1707.4	1324.3	606.0	259.7	196.3	185.2	184.3	185.2	191.2	204.0	208.3
50°	1899.4	1449.4	619.7	258.9	203.2	190.3	186.9	183.4	187.7	203.2	207.5
52.5°	2097.5	1582.3	642.0	264.0	213.4	197.1	190.3	184.3	187.7	201.4	207.5
55°	2318.6	1747.7	674.5	274.3	223.7	204.9	194.6	186.9	186.9	198.9	204.0
57.5°	2562.9	1918.3	717.4	288.0	234.9	213.4	198.0	187.7	186.0	193.7	198.0
60°	2942.6	2204.6	792.9	307.7	246.0	220.2	200.6	188.5	186.9	192.8	195.4
62.5°	3194.6	2403.4	858.1	327.4	256.2	226.3	201.4	188.5	188.5	192.0	193.7
65°	3433.7	2577.4	901.7	345.5	265.8	229.8	201.4	187.7	188.5	191.2	191.2
67.5°	3514.3	2621.2	904.3	358.3	271.7	229.8	199.7	186.9	189.5	192.0	191.2
69°	3417.5	2530.3	865.7	359.2	271.7	227.1	198.0	185.2	189.5	192.0	191.2
70°	3325.7	2452.3	833.2	355.7	269.1	224.5	195.4	184.3	188.5	191.2	190.3
72.5°	2808.9	2027.2	705.4	338.6	259.7	216.0	187.7	178.3	184.3	187.7	186.0
75°	2238.0	1597.7	575.1	308.6	243.5	202.2	177.4	168.9	175.7	179.1	176.6
77.5°	1668.0	1182.8	460.3	278.5	225.5	190.3	166.3	156.8	162.0	163.7	161.1
80°	1210.3	858.9	369.4	251.1	209.2	178.3	155.2	144.8	149.1	149.1	145.7
82.5°	855.4	610.3	298.3	223.7	192.0	168.0	145.7	134.6	140.6	139.7	136.3
85°	573.5	423.4	244.3	193.7	172.3	154.3	135.4	126.8	133.7	132.9	129.4
87.5°	379.7	302.6	204.9	168.0	150.9	137.2	123.5	117.4	124.3	122.5	118.3
90°	269.1	228.8	173.2	144.8	129.4	119.2	109.8	105.5	109.8	106.3	102.0
92.5°	193.7	171.4	142.3	121.7	108.0	101.2	95.1	91.8	94.3	89.1	85.7
95°	137.2	126.0	114.0	100.2	90.0	84.0	80.6	78.9	80.6	72.8	70.3
97.5°	100.2	95.1	90.0	83.2	74.6	71.1	68.5	66.9	66.9	59.1	57.4
100°	78.1	75.4	73.8	69.5	62.6	60.0	58.3	57.4	55.8	48.9	47.2
102.5°	62.6	61.7	61.7	57.4	52.3	50.5	48.9	48.0	46.2	40.3	38.6
105°	49.7	49.7	50.5	47.2	43.7	42.0	41.1	39.4	37.7	33.5	33.5
107.5°	39.4	39.4	41.1	38.6	36.8	35.2	34.3	32.5	30.9	28.3	28.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	30.9	31.7	34.3	32.5	30.9	30.0	29.2	26.6	24.9	24.0	24.0
112.5°	24.9	26.6	28.3	27.4	25.7	25.7	24.0	22.3	20.6	20.6	20.6
115°	21.4	22.3	24.0	23.1	22.3	21.4	20.6	18.0	17.2	17.2	18.0
117.5°	18.0	18.8	20.6	19.7	18.8	18.8	17.2	15.4	13.7	15.4	15.4
120°	15.4	16.3	17.2	17.2	16.3	16.3	14.5	12.9	11.2	12.9	12.9
122.5°	14.5	14.5	15.4	14.5	14.5	13.7	12.0	10.3	9.4	11.2	11.2
125°	13.7	13.7	13.7	12.9	12.9	12.0	10.3	8.6	7.7	9.4	9.4
127.5°	12.9	12.9	12.9	12.0	10.3	9.4	8.6	6.9	6.0	7.7	7.7
130°	12.9	12.9	11.2	10.3	9.4	7.7	6.9	5.1	5.1	6.9	6.9
132.5°	12.0	11.2	10.3	8.6	7.7	6.0	5.1	4.3	4.3	5.1	6.0
135°	10.3	10.3	8.6	6.9	6.0	4.3	4.3	2.6	3.5	4.3	4.3
137.5°	8.6	8.6	7.7	6.0	4.3	3.5	2.6	1.7	2.6	3.5	3.5
140°	7.7	6.9	6.0	5.1	3.5	1.7	1.7	0.8	1.7	1.7	2.6
142.5°	6.9	6.9	6.0	4.3	2.6	1.7	0.0	0.8	0.8	0.8	1.7
145°	6.0	6.0	5.1	3.5	2.6	0.8	0.0	0.8	0.8	0.8	0.0
147.5°	5.1	5.1	4.3	3.5	1.7	0.0	0.0	0.0	0.8	0.0	0.0
150°	4.3	4.3	3.5	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.5	3.5	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	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)