

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: P266222

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T4W-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266222
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-AF24-90-D-U-T4W-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 7098 lumens
Efficiency: N/A
Efficacy: 75.5 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: B2 - U3 - G3

Input Watts (W): 94
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

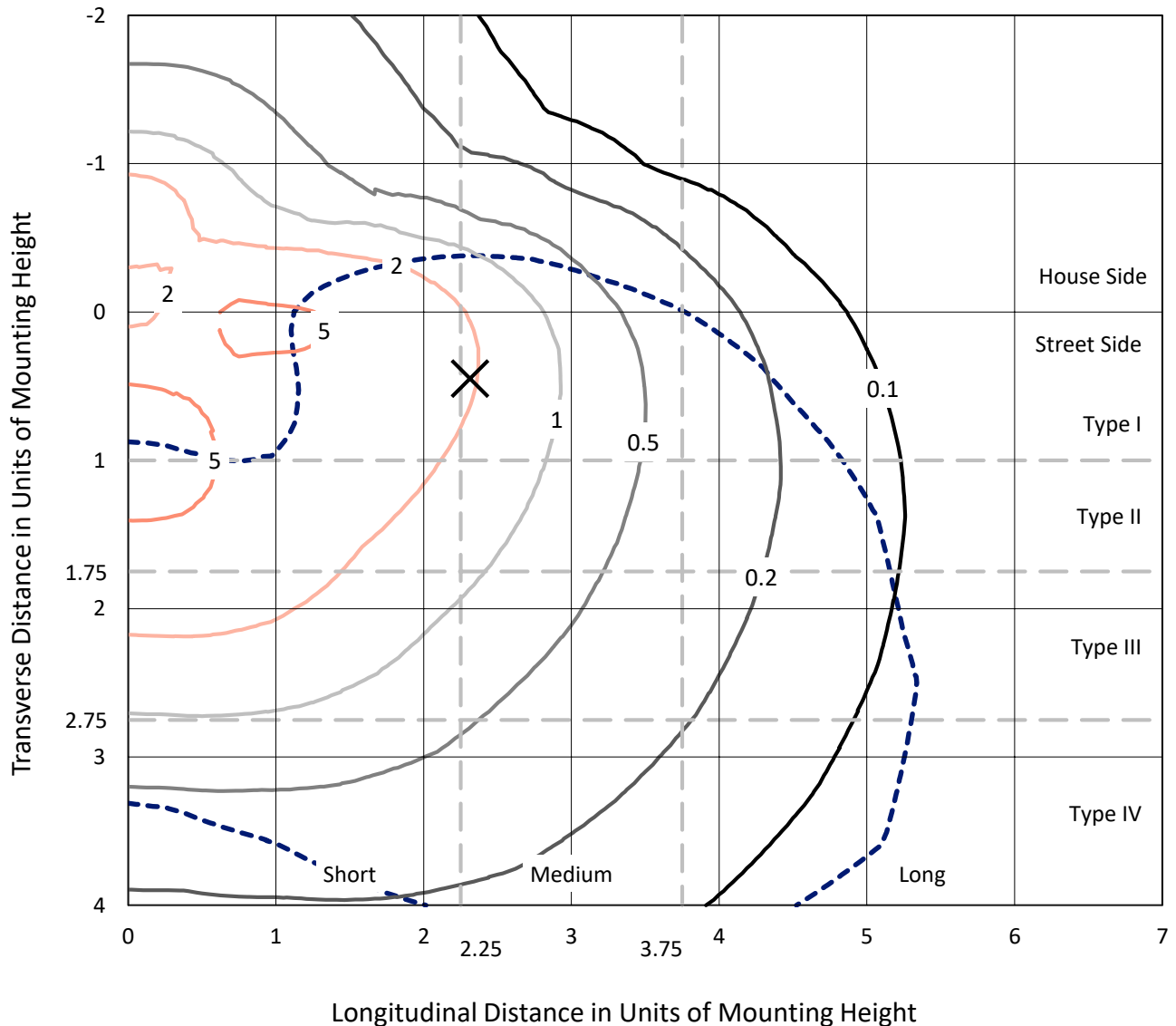


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

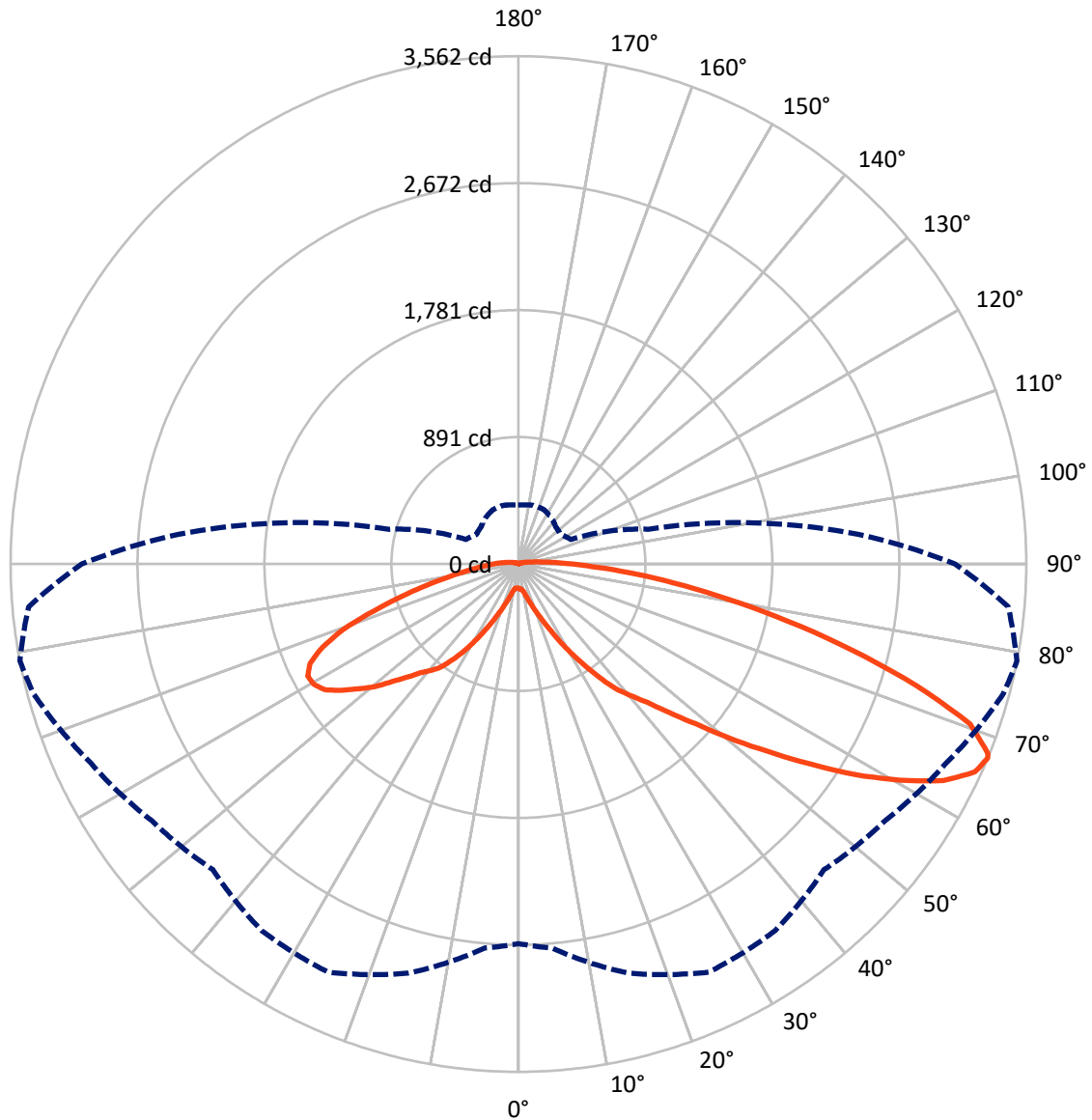


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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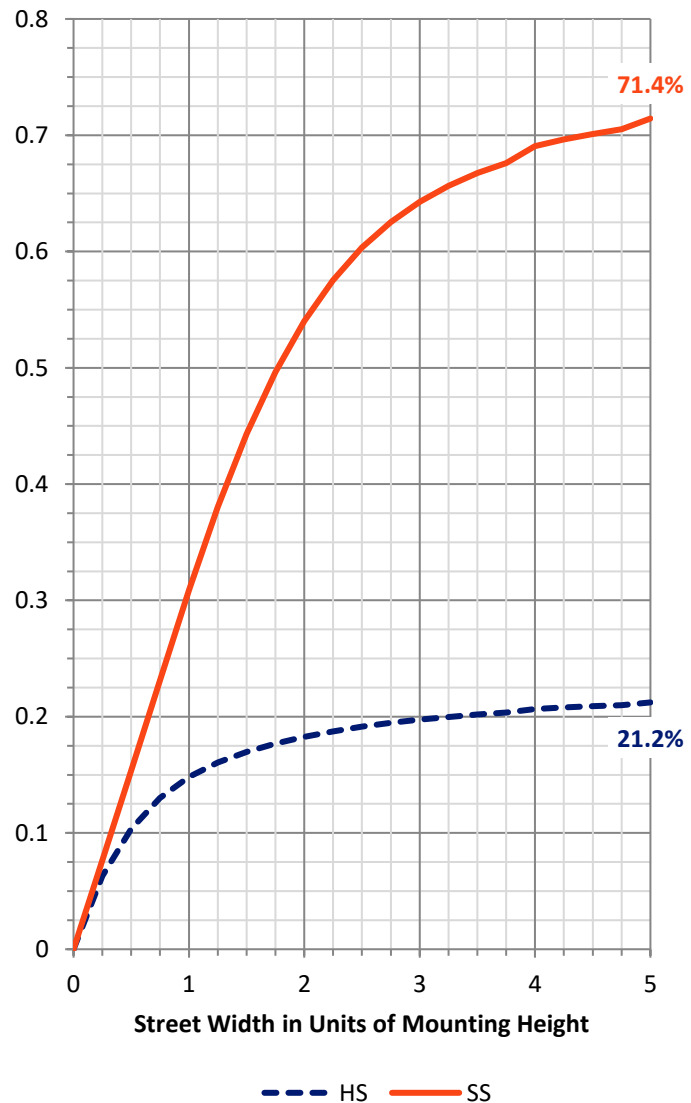
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.0	106.8	1689.7
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	5260.3	148.0	5408.3
	% Fixture	74.1	2.1	76.2
Total	Lumens	6843.2	254.8	7098.0
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.2
10°-20°	72.9	1.0
20°-30°	210.4	3.0
30°-40°	477.1	6.7
40°-50°	829.0	11.7
50°-60°	1328.3	18.7
60°-70°	1850.9	26.1
70°-80°	1462.0	20.6
80°-90°	595.4	8.4
90°-100°	169.8	2.4
100°-110°	50.5	0.7
110°-120°	19.6	0.3
120°-130°	9.4	0.1
130°-140°	4.3	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6843.2	96.4
0°-180°	7098.0	100.0

Coefficient of Utilization



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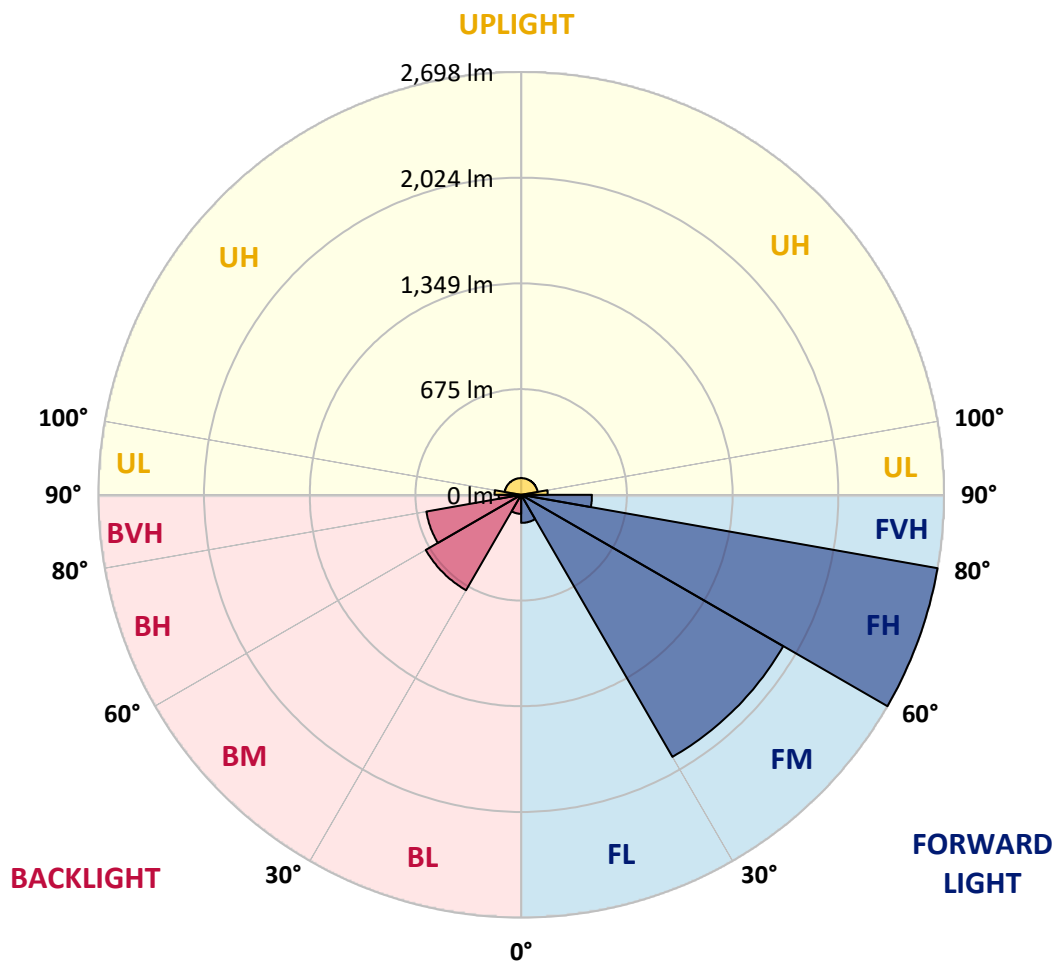
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.2	2.5			
FM	(30°-60°)	1931.1	27.2			
FH	(60°-80°)	2698.3	38.0			G2/5000
FVH	(80°-90°)	451.7	6.4			G3/500
BL	(0°-30°)	121.3	1.7	B1/500		
BM	(30°-60°)	703.3	9.9	B1/1000		
BH	(60°-80°)	614.6	8.7	B2/1000		G2/1000
BVH	(80°-90°)	143.8	2.0			G2/225
UL	(90°-100°)	169.8	2.4		U3/500	
UH	(100°-180°)	106.8	1.5		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°	75°	79°	85°
0°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	181.8	181.8	182.7	182.7	182.7	181.1	178.5	175.9	174.2	173.4	171.5
5°	195.7	194.8	195.7	194.8	194.8	191.2	187.0	182.7	179.3	177.7	175.0
7.5°	215.4	215.4	214.4	212.8	211.0	205.1	198.2	193.0	187.8	184.4	181.8
10°	240.2	241.0	239.4	235.0	230.9	223.0	215.4	208.4	200.9	196.5	193.0
12.5°	278.8	278.8	275.4	266.0	255.7	246.2	237.6	230.9	227.5	223.0	219.6
15°	327.0	326.1	320.9	306.3	292.6	276.3	270.3	266.0	263.5	260.0	255.7
17.5°	383.5	382.7	373.2	353.6	332.1	320.1	310.6	306.3	307.9	304.5	301.1
20°	451.3	449.6	435.0	407.6	386.1	369.8	359.5	355.2	360.4	357.7	355.2
22.5°	537.9	533.7	513.1	473.5	448.8	422.2	412.7	411.0	423.0	423.0	423.0
25°	640.9	636.5	605.7	560.3	516.5	483.8	474.5	483.8	503.6	506.3	511.3
27.5°	760.1	755.0	717.2	653.7	595.4	551.6	544.0	562.9	593.7	605.7	610.8
30°	900.9	897.4	843.4	762.8	680.3	625.5	616.9	651.2	699.3	718.1	731.0
32.5°	1067.4	1063.1	985.0	889.7	774.8	706.1	699.3	751.6	823.7	841.7	867.5
35°	1273.3	1268.9	1166.0	1033.1	880.2	791.9	791.9	859.7	948.2	973.0	1004.8
37.5°	1480.0	1479.1	1375.3	1197.7	996.9	886.3	888.1	966.0	1072.4	1111.2	1140.3
40°	1681.6	1683.3	1564.9	1361.7	1127.5	990.1	989.3	1068.2	1178.8	1212.4	1240.6
42.5°	1865.3	1864.4	1752.9	1535.8	1262.9	1102.5	1087.0	1164.4	1281.8	1327.2	1365.1
45°	1993.1	2002.5	1916.8	1692.8	1399.4	1219.2	1187.5	1273.3	1423.5	1486.1	1536.6
47.5°	2151.8	2152.7	2073.7	1840.4	1539.2	1340.2	1310.9	1419.1	1609.7	1674.8	1728.0
50°	2326.9	2335.5	2272.8	2025.7	1697.1	1476.6	1465.5	1601.9	1828.4	1920.1	1986.2
52.5°	2476.2	2486.5	2447.8	2237.6	1887.6	1651.7	1651.7	1824.9	2067.8	2177.6	2241.9
55°	2586.0	2603.1	2612.6	2441.0	2102.9	1856.6	1875.5	2070.4	2339.7	2471.0	2549.1
57.5°	2673.4	2697.5	2742.2	2622.1	2314.8	2102.9	2130.4	2338.8	2666.6	2789.2	2871.7
60°	2803.0	2830.5	2911.1	2815.8	2558.6	2368.0	2404.9	2632.4	2966.9	3077.7	3140.2
62.5°	2815.8	2849.3	3012.3	3026.1	2786.7	2627.2	2708.7	2931.8	3250.8	3347.1	3360.6
65°	2756.7	2800.5	3016.7	3141.9	3029.5	2869.9	2985.0	3190.1	3454.3	3517.8	3482.5
67°	2662.3	2704.3	2970.3	3159.1	3139.3	3032.0	3139.3	3308.4	3520.3	3562.4	3449.1
67.5°	2622.1	2662.3	2944.6	3155.7	3153.1	3060.4	3164.3	3334.1	3523.7	3552.1	3424.2
70°	2363.8	2419.6	2721.5	3045.9	3147.1	3086.1	3207.9	3325.5	3371.9	3361.5	3177.9
72.5°	1909.8	1962.2	2291.7	2745.6	2977.3	2946.4	3054.4	3075.8	2994.4	2924.1	2673.4
75°	1401.0	1424.3	1728.0	2216.2	2596.3	2631.4	2712.9	2664.9	2515.7	2422.1	2167.3
77.5°	973.0	996.1	1229.5	1678.3	2093.5	2224.7	2305.4	2235.1	2078.0	1934.8	1656.7
80°	644.4	656.3	839.0	1222.7	1642.2	1824.9	1894.4	1822.3	1623.2	1482.7	1219.2
82.5°	393.0	416.2	548.2	857.2	1269.8	1494.6	1545.3	1462.0	1246.7	1100.9	878.6
85°	236.0	247.9	350.9	579.1	934.3	1185.8	1233.8	1125.7	907.7	776.5	588.6
87.5°	145.9	151.1	220.5	375.0	655.6	885.4	936.9	809.1	612.6	517.3	393.7
90°	94.4	98.6	144.9	247.2	433.3	630.6	653.7	550.8	407.6	344.9	266.8
92.5°	63.5	67.0	98.6	163.9	284.9	413.6	430.6	363.8	269.4	230.0	181.8
95°	44.6	47.3	69.4	111.5	185.3	254.8	272.8	236.0	175.9	151.9	125.3
97.5°	34.3	36.0	52.3	80.7	125.3	164.7	171.5	153.6	119.3	104.7	91.0
100°	27.5	29.1	41.2	60.9	90.1	112.4	116.7	105.6	84.1	75.5	67.0
102.5°	24.1	24.1	33.4	48.1	67.8	83.3	84.1	75.5	61.8	55.8	51.6
105°	20.7	20.7	27.5	38.5	54.1	64.4	64.4	55.8	45.5	41.2	39.4
107.5°	17.2	18.1	23.1	30.9	42.8	51.6	49.8	41.2	32.6	30.1	29.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	14.6	15.5	19.8	25.7	35.2	42.0	39.4	31.7	24.1	22.3	22.3
112.5°	12.8	13.7	16.3	22.3	30.1	35.2	31.7	24.1	18.1	17.2	18.1
115°	11.9	11.9	14.6	19.8	25.7	29.1	26.6	19.8	14.6	13.7	14.6
117.5°	10.3	11.1	12.8	17.2	23.1	25.0	22.3	15.5	11.1	11.1	12.8
120°	10.3	10.3	11.9	15.5	20.7	22.3	18.9	12.8	9.4	9.4	11.1
122.5°	9.4	9.4	11.1	14.6	18.1	19.8	16.3	11.1	8.5	8.5	9.4
125°	9.4	9.4	11.1	13.7	16.3	16.3	13.7	9.4	7.7	7.7	8.5
127.5°	10.3	10.3	11.1	12.8	14.6	14.6	11.9	8.5	6.8	6.8	7.7
130°	10.3	10.3	10.3	11.9	12.8	11.9	10.3	7.7	6.8	6.8	7.7
132.5°	10.3	10.3	10.3	10.3	11.1	10.3	8.5	6.0	6.0	6.0	6.8
135°	9.4	9.4	8.5	9.4	9.4	7.7	6.0	4.3	5.1	5.1	6.0
137.5°	7.7	7.7	7.7	7.7	6.8	6.0	4.3	3.5	4.3	5.1	5.1
140°	6.8	6.8	6.0	6.0	5.1	4.3	2.5	3.5	4.3	4.3	4.3
142.5°	5.1	5.1	5.1	4.3	3.5	2.5	1.6	2.5	3.5	3.5	4.3
145°	3.5	3.5	3.5	2.5	1.6	0.9	1.6	1.6	2.5	3.5	3.5
147.5°	1.6	1.6	1.6	0.9	0.9	0.9	0.9	1.6	2.5	2.5	2.5
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.6	2.5	2.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.6	1.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6
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°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	170.8	169.9	167.4	165.6	163.9	163.0	162.1	162.1	161.2	160.4	160.4
5°	173.4	171.5	167.4	163.9	161.2	159.5	157.8	157.1	155.2	154.5	154.5
7.5°	178.5	175.9	170.8	164.7	160.4	157.8	156.1	154.5	152.7	152.7	152.7
10°	188.7	185.3	177.7	169.9	163.0	159.5	157.8	156.1	156.1	155.2	155.2
12.5°	214.4	209.3	196.5	182.7	170.8	165.6	163.9	168.2	173.4	174.2	176.7
15°	249.6	244.5	228.2	208.4	188.7	177.7	183.7	191.2	200.0	206.8	206.8
17.5°	293.4	287.4	265.1	237.6	213.6	206.8	208.4	219.6	231.7	237.6	238.5
20°	347.5	338.9	307.9	270.3	243.7	233.4	236.0	247.2	264.2	272.8	274.5
22.5°	415.2	402.4	361.2	307.9	275.4	261.6	264.2	277.9	301.1	313.1	317.5
25°	501.1	484.7	422.2	353.6	307.2	286.6	294.3	315.8	344.9	362.9	362.0
27.5°	599.7	573.9	496.0	400.6	338.9	310.6	322.6	352.7	387.8	408.4	411.0
30°	718.1	684.7	576.5	450.4	366.4	332.1	347.5	385.3	424.7	452.1	454.7
32.5°	849.3	809.9	658.9	500.1	388.6	348.4	365.5	412.7	458.1	490.7	491.6
35°	984.2	933.5	737.0	543.1	407.6	361.2	379.3	433.3	486.5	524.3	526.8
37.5°	1112.8	1053.6	809.1	571.4	419.6	368.0	387.0	450.4	510.4	550.8	553.4
40°	1209.7	1136.8	853.7	580.8	422.2	371.4	393.7	457.2	510.4	541.4	543.1
42.5°	1331.6	1235.4	886.3	571.4	415.2	371.4	396.4	448.8	489.9	510.4	510.4
45°	1494.6	1376.3	936.0	560.3	401.5	368.9	389.5	429.8	457.2	467.6	467.6
47.5°	1689.4	1534.9	986.7	552.5	391.2	362.9	379.3	406.8	421.2	422.2	420.3
50°	1935.6	1735.7	1049.3	541.4	385.3	356.9	369.8	387.8	396.4	393.0	391.2
52.5°	2170.8	1914.2	1094.0	527.7	381.8	354.3	364.6	380.2	382.7	372.3	369.8
55°	2451.3	2123.6	1124.8	505.3	378.4	356.1	364.6	377.5	375.9	362.0	359.5
57.5°	2730.9	2320.1	1152.3	485.7	375.0	358.7	368.0	379.3	375.9	362.9	360.4
60°	2945.5	2454.7	1136.8	465.1	371.4	362.9	374.1	385.3	385.3	375.0	374.1
62.5°	3113.6	2535.3	1100.0	443.6	368.9	366.4	381.8	398.0	401.5	393.7	393.0
65°	3151.3	2502.8	1028.6	423.0	365.5	368.9	392.1	412.7	415.2	407.6	406.8
67°	3063.0	2391.2	941.2	405.9	360.4	369.8	398.9	421.2	424.7	417.0	414.4
67.5°	3024.5	2347.5	918.8	401.5	358.7	369.8	399.8	422.2	426.4	418.7	416.2
70°	2728.4	2087.5	799.6	377.5	347.5	365.5	401.5	428.1	430.6	421.2	417.8
72.5°	2260.8	1683.3	661.5	354.3	333.8	354.3	395.6	423.8	423.0	409.3	406.8
75°	1792.3	1319.6	532.9	327.7	314.9	337.3	379.3	404.1	398.9	382.7	379.3
77.5°	1361.7	986.7	433.3	301.1	293.4	314.9	351.7	369.8	359.5	344.1	340.5
80°	970.3	710.4	352.7	276.3	270.3	289.2	317.5	327.0	320.1	305.5	301.1
82.5°	678.7	510.4	293.4	251.3	247.9	262.6	280.6	290.1	286.6	273.8	270.3
85°	469.4	356.9	247.2	226.6	224.8	235.0	246.2	252.2	254.8	247.9	243.7
87.5°	315.8	262.6	210.3	199.1	200.0	207.7	215.4	221.3	229.1	228.2	223.9
90°	225.7	196.5	175.9	170.8	172.5	181.1	184.4	187.8	197.4	197.4	194.8
92.5°	161.2	149.3	142.4	140.8	144.2	151.1	152.7	153.6	160.4	161.2	156.1
95°	115.0	109.0	111.5	113.2	116.7	122.7	121.8	119.3	122.7	122.7	118.3
97.5°	84.9	83.3	88.4	90.1	92.6	97.8	95.2	91.0	93.6	90.1	87.6
100°	65.1	65.1	71.2	72.0	73.8	76.4	75.5	72.0	72.9	68.6	67.0
102.5°	51.6	52.3	56.7	57.5	59.2	61.8	60.0	58.3	56.7	51.6	51.6
105°	40.3	41.2	44.6	45.5	47.3	49.8	48.9	46.4	43.7	39.4	39.4
107.5°	30.9	32.6	35.2	36.0	37.8	40.3	39.4	36.0	32.6	30.1	30.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.1	25.7	28.2	29.1	30.1	32.6	30.9	27.5	25.0	23.1	23.1
112.5°	19.8	20.7	23.1	24.1	25.0	26.6	25.0	21.5	18.9	18.1	18.1
115°	16.3	17.2	18.9	19.8	21.5	21.5	19.8	16.3	14.6	14.6	14.6
117.5°	13.7	14.6	16.3	17.2	17.2	18.1	15.5	12.8	11.1	11.9	11.9
120°	11.9	11.9	13.7	13.7	14.6	14.6	12.8	10.3	8.5	9.4	10.3
122.5°	10.3	10.3	11.1	11.9	11.9	11.9	10.3	8.5	6.8	7.7	8.5
125°	8.5	9.4	9.4	10.3	10.3	10.3	8.5	6.8	6.0	6.8	6.8
127.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.8	5.1	5.1	6.0	6.0
130°	7.7	7.7	7.7	7.7	6.8	6.0	5.1	3.5	4.3	5.1	5.1
132.5°	6.8	6.8	6.8	6.0	5.1	4.3	3.5	2.5	2.5	4.3	4.3
135°	6.0	6.0	5.1	4.3	3.5	2.5	1.6	1.6	1.6	3.5	3.5
137.5°	5.1	5.1	4.3	3.5	2.5	1.6	0.9	0.0	0.9	1.6	1.6
140°	5.1	5.1	4.3	2.5	1.6	0.9	0.0	0.0	0.0	0.9	0.9
142.5°	4.3	4.3	3.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.5	2.5	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	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)