

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: P266102

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T3-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-29)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T3-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4622.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

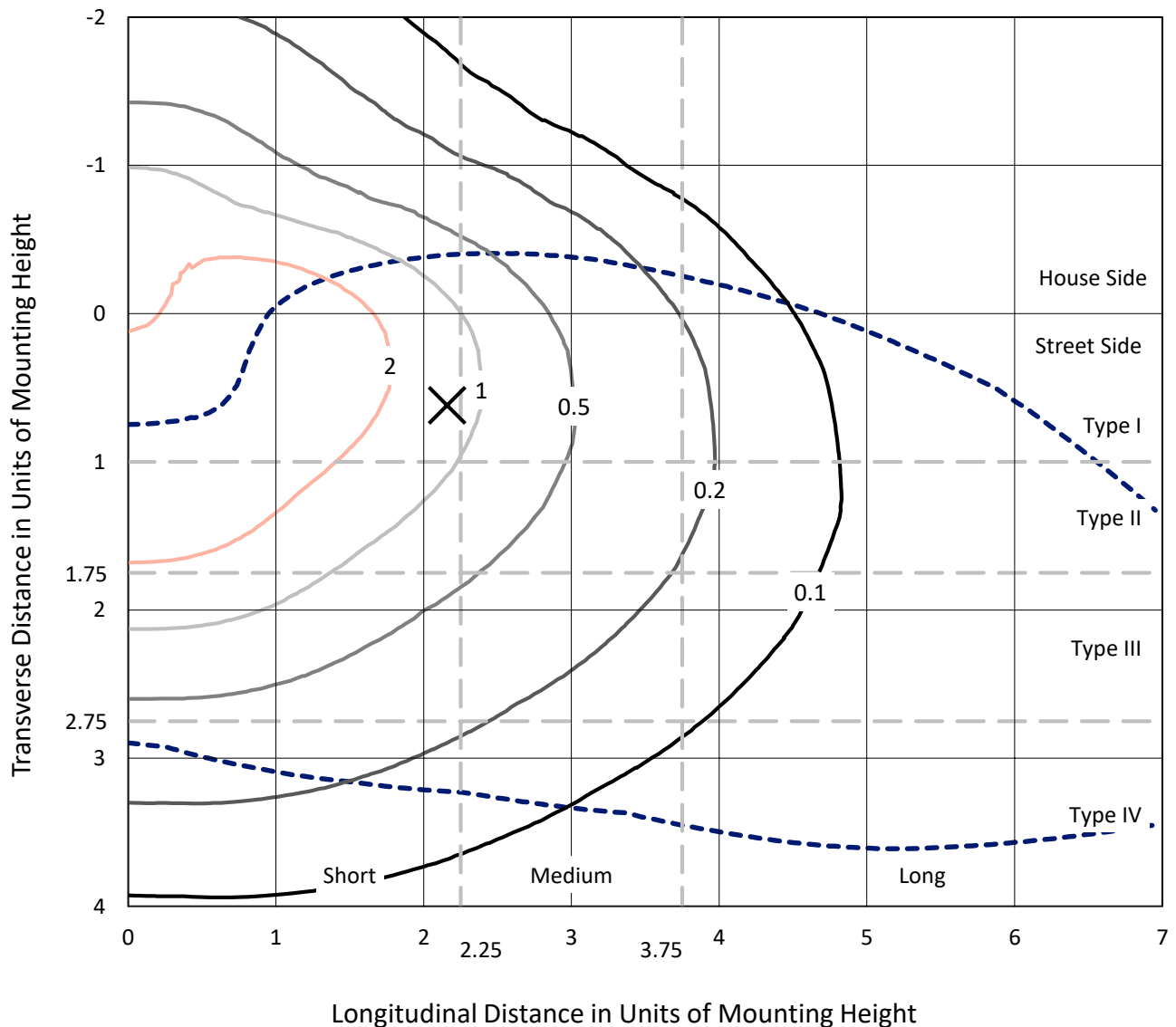


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

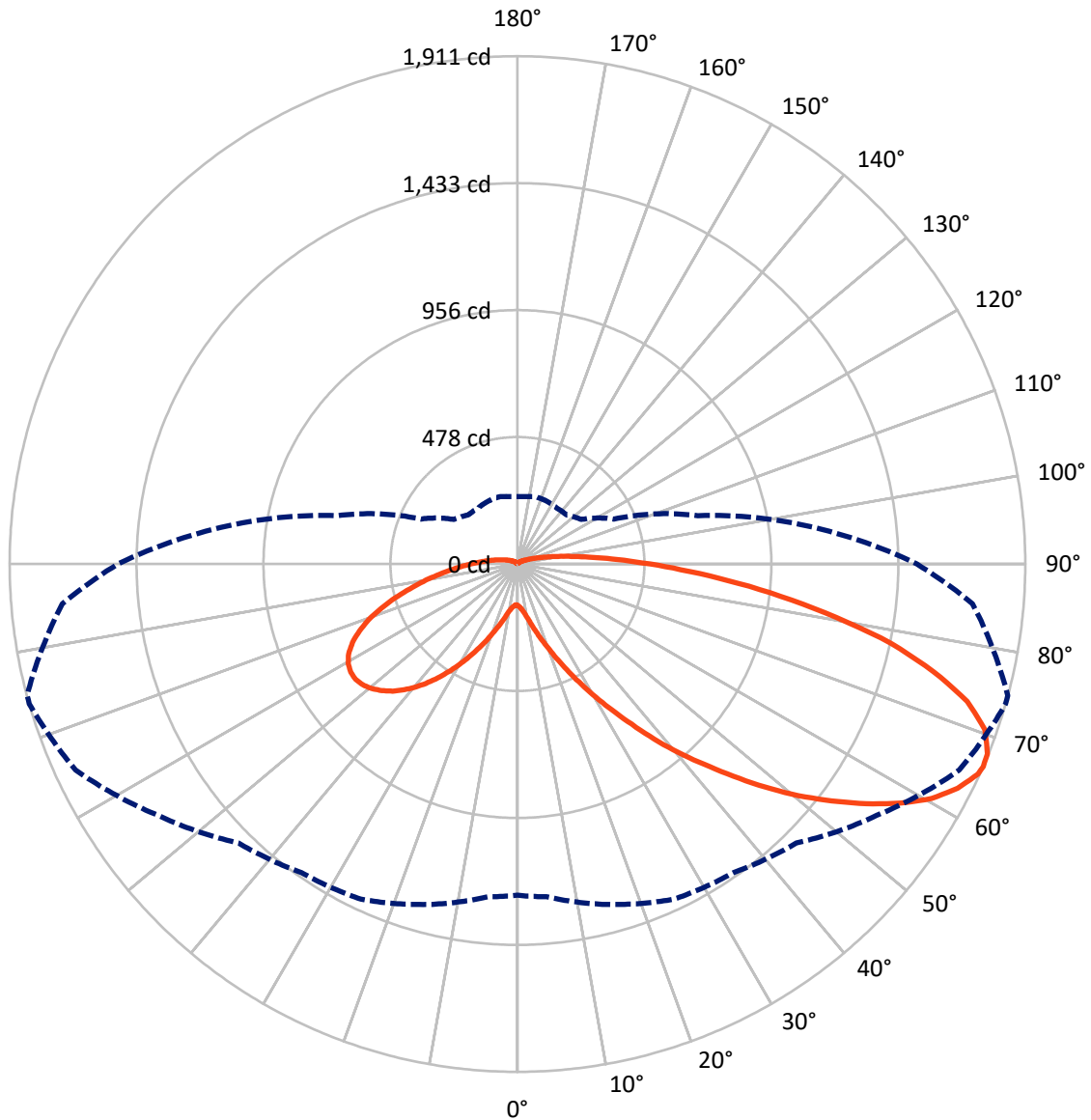


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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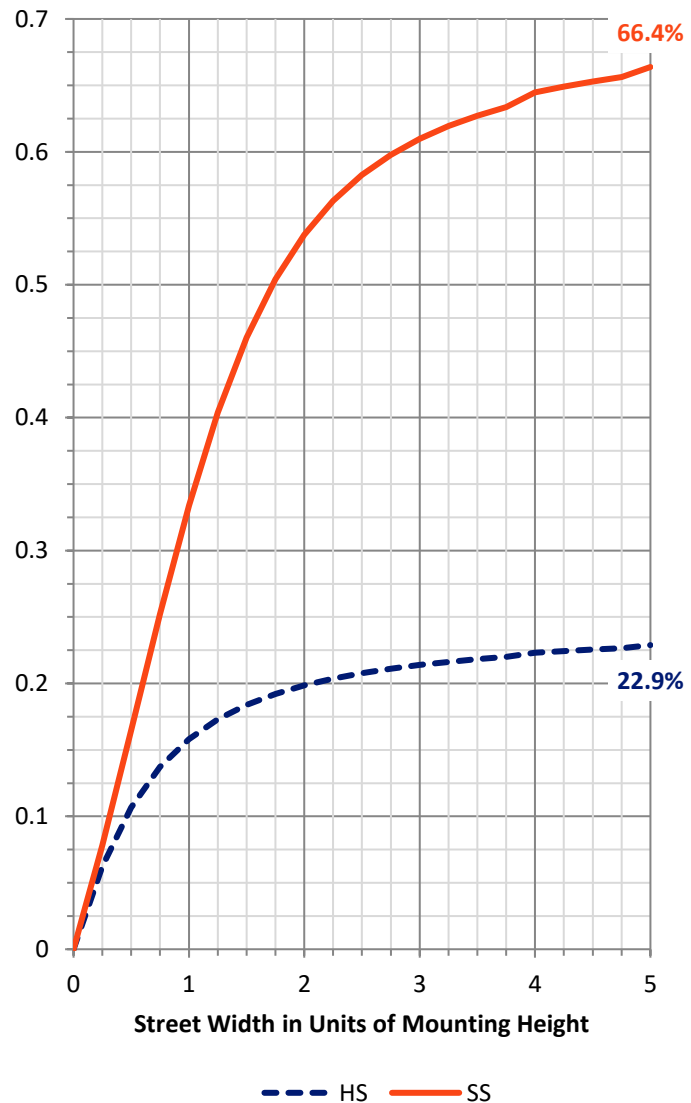
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.9	114.9	1226.8
	% Fixture	24.1	2.5	26.5
Street Side	Lumens	3198.9	197.1	3395.9
	% Fixture	69.2	4.3	73.5
Total	Lumens	4310.7	312.0	4622.7
	% Fixture	93.3	6.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	0.4
10°-20°	70.0	1.5
20°-30°	179.5	3.9
30°-40°	363.6	7.9
40°-50°	615.6	13.3
50°-60°	873.0	18.9
60°-70°	985.6	21.3
70°-80°	788.1	17.0
80°-90°	418.7	9.1
90°-100°	176.5	3.8
100°-110°	75.1	1.6
110°-120°	34.7	0.7
120°-130°	16.5	0.4
130°-140°	7.2	0.2
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4310.7	93.3
0°-180°	4622.7	100.0



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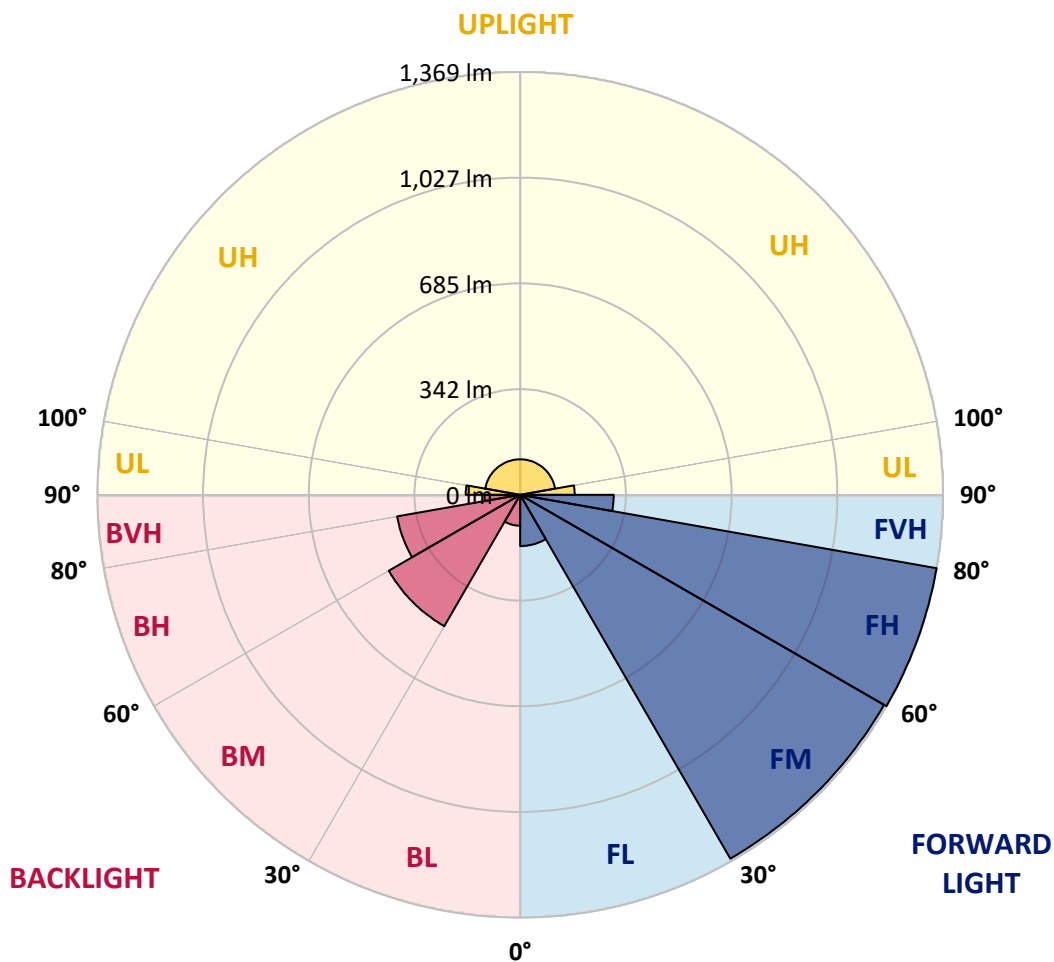
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.9	3.6			
FM	(30°-60°)	1360.7	29.4			
FH	(60°-80°)	1369.4	29.6			G1/1800
FVH	(80°-90°)	302.9	6.6			G3/500
BL	(0°-30°)	100.2	2.2	B0/110		
BM	(30°-60°)	491.5	10.6	B1/1000		
BH	(60°-80°)	404.4	8.7	B1/500		G1/500
BVH	(80°-90°)	115.8	2.5			G2/225
UL	(90°-100°)	176.5	3.8		U3/500	
UH	(100°-180°)	114.9	2.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2
2.5°	170.3	171.3	170.3	169.7	168.5	168.1	165.7	163.0	161.2	160.6	158.5
5°	187.7	189.4	188.3	186.6	185.0	182.6	179.2	174.7	171.3	170.8	166.4
7.5°	209.0	211.3	209.6	207.4	204.5	201.2	196.1	190.5	185.4	184.3	178.8
10°	239.4	238.8	236.6	233.2	229.2	225.8	219.6	211.3	205.2	203.9	196.1
12.5°	273.7	273.7	270.3	265.2	259.6	254.5	248.3	238.8	232.0	230.3	220.9
15°	312.4	314.0	309.0	303.4	295.5	288.3	282.6	272.5	264.6	262.9	251.2
17.5°	358.0	358.6	352.9	345.6	336.5	329.9	321.5	310.8	301.7	300.0	285.4
20°	410.2	409.6	402.9	392.7	382.7	376.5	365.8	354.0	344.0	342.8	325.4
22.5°	469.8	465.2	460.2	447.3	438.8	427.1	415.7	402.4	392.7	391.1	372.5
25°	536.6	530.4	525.4	508.5	496.1	482.1	470.4	458.6	450.6	447.3	425.3
27.5°	611.9	608.0	597.8	577.2	557.9	540.5	531.5	520.3	511.9	510.1	487.7
30°	696.1	686.7	676.0	650.7	624.9	601.2	592.3	587.8	581.6	579.2	554.1
32.5°	779.9	779.4	763.6	731.6	697.9	671.5	662.9	660.9	655.1	655.8	625.4
35°	878.8	878.3	858.6	819.3	777.2	744.5	738.9	741.7	740.1	739.5	705.2
37.5°	983.9	981.7	959.7	912.0	859.7	822.6	818.6	828.2	835.6	830.6	790.6
40°	1092.2	1094.0	1064.2	1008.1	946.9	904.7	902.3	924.4	932.3	927.1	879.9
42.5°	1197.4	1196.3	1168.2	1110.3	1034.9	990.0	991.8	1020.5	1029.9	1027.8	975.5
45°	1299.0	1298.1	1272.7	1205.3	1125.4	1076.6	1085.1	1119.8	1138.4	1138.4	1076.0
47.5°	1388.4	1387.3	1365.5	1296.9	1212.6	1163.1	1176.6	1223.9	1254.8	1250.8	1177.1
50°	1461.5	1459.8	1444.7	1381.8	1295.1	1247.9	1271.0	1332.2	1369.9	1361.6	1280.5
52.5°	1508.2	1510.4	1503.0	1450.3	1369.3	1326.6	1362.0	1439.1	1480.5	1477.3	1385.6
55°	1530.6	1531.7	1540.8	1499.7	1428.9	1396.3	1448.5	1541.9	1593.0	1588.6	1486.8
57.5°	1519.9	1523.3	1547.5	1526.1	1469.9	1453.6	1526.1	1636.8	1698.1	1698.7	1576.2
60°	1474.9	1484.0	1521.1	1526.1	1490.2	1490.6	1590.2	1721.2	1791.3	1787.4	1650.2
62.5°	1399.6	1410.9	1464.9	1492.4	1480.0	1507.5	1632.3	1786.8	1858.8	1861.6	1703.6
65°	1295.7	1306.5	1371.6	1426.7	1441.3	1498.1	1650.8	1828.4	1904.9	1904.2	1722.2
66°	1246.3	1257.0	1326.6	1391.8	1417.6	1484.4	1649.7	1834.6	1911.1	1910.4	1719.4
67.5°	1164.8	1176.6	1249.2	1328.4	1371.1	1454.7	1636.8	1831.3	1907.6	1906.6	1700.9
70°	1014.2	1027.8	1108.6	1196.3	1267.7	1377.8	1585.1	1792.9	1866.0	1860.4	1632.3
72.5°	857.0	870.9	951.8	1045.1	1145.7	1276.0	1492.4	1704.9	1770.5	1763.3	1517.6
75°	703.0	716.4	796.2	891.2	1000.2	1142.4	1362.0	1565.4	1617.7	1617.2	1363.2
77.5°	562.5	574.2	645.6	740.1	850.2	994.1	1201.9	1396.9	1439.5	1428.3	1179.5
80°	441.1	452.3	513.7	598.5	705.8	840.0	1026.7	1192.9	1215.9	1209.2	985.6
82.5°	342.3	352.3	405.7	479.2	576.0	693.9	842.3	987.2	997.9	990.7	797.9
85°	264.6	273.7	319.2	382.7	464.8	562.5	681.0	783.9	793.9	788.9	630.4
87.5°	205.2	211.3	249.5	302.9	372.0	451.2	540.1	619.2	615.2	610.2	487.7
90°	158.5	164.6	196.1	240.4	297.2	359.1	424.2	477.5	470.4	464.8	374.2
92.5°	123.1	127.6	155.0	192.1	238.2	285.4	331.6	365.8	356.3	352.3	285.4
95°	97.1	100.6	122.4	156.8	192.1	228.1	259.6	283.8	269.8	266.3	217.5
97.5°	78.2	80.4	99.0	126.4	156.2	183.8	205.2	215.2	204.5	201.7	165.7
100°	64.0	65.1	80.8	102.9	127.0	149.5	163.0	167.4	156.2	154.0	126.4
102.5°	52.8	54.0	66.8	86.5	105.6	121.5	129.7	132.6	118.5	116.9	97.7
105°	44.3	44.9	55.7	73.0	88.8	100.0	105.6	102.9	91.5	89.9	76.4
107.5°	38.2	38.7	46.6	62.3	75.3	83.7	87.0	83.2	71.3	69.7	60.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	33.1	33.1	39.9	52.8	64.0	71.3	72.6	66.4	56.1	55.1	48.2
112.5°	29.3	29.3	34.9	45.5	55.1	60.6	60.6	54.0	44.3	43.8	39.3
115°	26.4	26.4	30.4	39.3	47.8	52.2	51.2	43.8	35.9	35.5	32.6
117.5°	23.5	23.5	26.4	33.6	41.1	44.9	43.3	35.9	29.3	28.7	27.6
120°	21.4	21.4	23.5	28.7	35.5	38.2	36.6	29.7	24.2	23.5	23.0
122.5°	19.7	19.7	20.8	25.3	30.4	32.6	30.9	24.8	20.2	20.2	19.7
125°	18.0	18.0	19.1	21.9	25.8	28.0	25.8	20.2	16.9	16.9	17.3
127.5°	16.9	16.9	17.3	19.1	22.5	23.5	21.4	16.9	14.6	14.6	15.2
130°	15.2	15.2	15.7	16.9	18.5	19.7	17.3	14.1	12.9	12.3	12.9
132.5°	14.1	14.1	14.1	14.6	15.2	15.7	14.1	11.1	10.7	10.7	11.1
135°	12.3	12.9	12.3	12.3	12.3	12.3	10.7	9.1	9.1	9.1	9.5
137.5°	11.1	11.1	10.7	10.2	10.2	9.5	8.4	7.2	7.2	7.2	7.8
140°	9.5	9.5	9.5	8.4	7.2	6.7	5.6	5.6	6.2	6.2	6.7
142.5°	7.8	7.8	7.2	6.7	5.1	4.5	4.0	4.0	4.5	4.5	5.1
145°	6.2	6.2	5.6	4.5	3.4	2.2	2.2	2.2	2.9	2.9	3.4
147.5°	4.5	4.5	4.0	2.9	1.6	1.1	1.1	1.6	2.2	2.2	2.9
150°	2.9	2.9	2.2	1.6	0.5	0.0	0.5	1.1	1.6	1.6	2.2
152.5°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1	1.6
155°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2
2.5°	157.4	156.2	154.0	152.3	150.0	148.8	148.3	147.2	146.7	146.1	146.1
5°	164.1	161.9	157.9	154.0	150.6	147.2	145.5	143.9	142.1	141.0	141.0
7.5°	175.3	171.9	165.7	159.5	154.0	149.5	146.1	143.9	141.7	140.4	140.0
10°	191.0	186.6	178.1	169.7	161.9	155.0	150.6	147.9	145.5	143.9	143.3
12.5°	215.8	209.0	196.6	184.3	171.9	164.6	158.5	156.8	155.6	154.5	155.6
15°	244.3	236.0	220.9	204.5	189.4	177.5	172.6	171.3	170.3	169.7	169.7
17.5°	276.5	267.4	247.3	225.8	207.4	195.6	188.3	185.9	184.3	183.8	183.2
20°	315.2	303.4	277.5	250.1	228.1	215.2	205.2	201.2	199.5	199.5	199.5
22.5°	360.2	344.4	312.4	276.5	251.2	233.2	222.5	216.3	215.2	215.8	215.2
25°	410.7	391.7	350.6	306.2	273.1	250.5	237.2	231.6	229.8	231.0	231.0
27.5°	468.0	446.2	391.7	337.8	293.8	265.8	250.5	245.5	243.9	245.5	245.5
30°	528.2	503.5	434.3	367.4	311.8	278.1	261.2	257.4	255.7	257.4	258.0
32.5°	600.1	563.0	479.2	396.2	328.7	288.3	270.3	266.8	265.2	267.4	267.4
35°	674.3	628.8	524.3	422.6	342.3	295.5	276.5	273.7	272.5	274.8	274.8
37.5°	749.5	700.0	570.3	446.2	352.3	300.7	280.9	278.7	278.1	278.1	278.7
40°	832.2	770.3	614.1	465.2	359.6	303.4	283.8	280.9	280.5	279.8	279.8
42.5°	917.6	838.4	653.4	479.9	362.9	303.9	283.8	282.1	281.4	279.3	278.7
45°	1005.3	910.8	690.5	489.9	364.2	302.9	283.1	281.4	280.9	276.9	276.5
47.5°	1094.6	980.5	720.9	494.4	361.3	300.7	281.4	279.8	278.7	272.5	272.5
50°	1182.8	1049.1	746.9	495.1	356.7	296.7	279.3	278.7	276.5	269.1	268.1
52.5°	1269.3	1113.7	765.9	491.2	349.5	292.8	276.9	276.9	274.3	266.3	265.2
55°	1350.8	1171.6	777.2	482.1	341.0	287.6	274.3	274.8	271.9	263.6	262.5
57.5°	1421.6	1219.3	778.8	468.6	331.6	282.6	271.4	272.5	270.7	261.2	260.1
60°	1478.3	1249.6	770.9	452.3	320.2	276.5	268.1	270.3	268.7	259.6	259.0
62.5°	1509.2	1261.5	751.3	432.2	309.0	270.7	263.6	267.4	266.3	257.4	256.7
65°	1511.5	1246.8	718.6	409.1	297.2	264.1	259.6	262.9	262.9	255.1	254.5
66°	1503.0	1232.3	702.4	400.0	292.2	261.2	257.4	261.2	261.9	254.5	253.4
67.5°	1476.6	1201.9	674.3	384.4	284.4	256.7	253.4	258.0	258.4	252.3	250.5
70°	1403.1	1127.7	623.2	358.6	271.4	247.8	246.1	250.5	251.7	246.7	245.0
72.5°	1290.1	1030.5	563.0	330.3	256.7	237.7	237.2	241.6	242.7	238.2	236.6
75°	1147.3	902.9	496.8	302.9	241.0	226.5	225.8	229.2	231.0	227.6	224.8
77.5°	984.5	772.1	431.5	274.8	225.4	213.4	213.4	216.3	216.9	213.4	210.7
80°	817.5	642.7	372.5	246.7	209.0	199.0	199.0	200.1	200.6	197.2	193.9
82.5°	660.9	524.3	315.8	219.6	190.5	182.6	182.0	182.0	181.5	178.8	174.7
85°	522.5	420.9	264.1	194.5	172.6	166.4	164.6	163.0	161.9	158.5	155.0
87.5°	408.5	334.9	222.5	170.8	154.5	149.5	147.2	144.9	142.1	138.2	133.8
90°	317.6	265.2	185.4	148.8	136.5	132.1	128.6	125.4	121.9	117.5	115.3
92.5°	246.1	209.6	155.0	128.1	119.7	116.3	112.9	108.4	103.9	99.4	97.1
95°	191.6	166.8	128.6	110.8	104.6	101.7	98.4	93.2	87.7	83.2	81.4
97.5°	149.5	132.6	107.3	95.5	91.5	88.3	84.8	79.8	73.7	68.5	67.5
100°	116.3	105.6	89.9	82.6	79.2	77.0	73.7	68.5	61.3	56.1	55.7
102.5°	92.2	84.8	75.3	71.3	69.1	66.8	63.5	58.4	51.2	45.5	45.5
105°	73.0	68.5	63.5	61.3	59.6	57.9	54.4	49.4	41.6	37.1	37.1
107.5°	59.0	55.7	53.4	52.2	51.7	50.0	47.3	41.6	34.2	30.4	30.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	47.8	46.1	44.9	44.9	44.3	43.8	40.5	34.9	28.0	24.8	25.3
112.5°	39.3	38.2	38.2	38.7	38.7	37.6	34.2	29.3	23.0	20.8	20.8
115°	32.6	32.0	32.6	33.1	33.6	32.6	29.3	24.2	18.5	17.3	17.3
117.5°	27.6	27.6	28.0	28.7	28.7	27.6	24.8	20.2	15.2	14.6	14.6
120°	23.5	23.5	23.5	24.2	24.8	23.5	20.8	16.3	12.3	12.3	12.3
122.5°	20.2	20.2	20.2	20.8	20.8	20.2	17.3	13.5	10.7	10.7	10.7
125°	17.3	17.3	17.3	18.0	18.0	16.9	14.1	11.1	9.1	9.1	9.1
127.5°	15.2	15.2	15.2	15.2	15.2	14.1	11.8	9.1	7.2	7.8	7.8
130°	13.5	13.5	12.9	12.9	12.3	11.8	9.5	7.2	6.2	6.7	6.7
132.5°	11.1	11.8	11.1	10.7	10.2	9.1	7.2	5.6	5.1	5.6	5.6
135°	9.5	10.2	9.5	8.4	7.8	7.2	5.6	4.5	4.5	4.5	4.5
137.5°	8.4	8.4	7.8	6.7	6.2	5.1	4.0	3.4	3.4	4.0	4.0
140°	6.7	6.7	6.2	5.1	4.5	3.4	2.2	2.2	2.9	2.9	2.9
142.5°	5.1	5.1	4.5	3.4	2.2	1.6	1.1	1.1	1.6	2.2	2.2
145°	3.4	3.4	3.4	2.2	1.6	0.5	0.0	0.5	1.1	1.1	1.1
147.5°	2.9	2.9	2.2	1.6	0.5	0.0	0.0	0.0	0.5	0.5	0.5
150°	2.2	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	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)