

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: P254475

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)
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-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5506.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

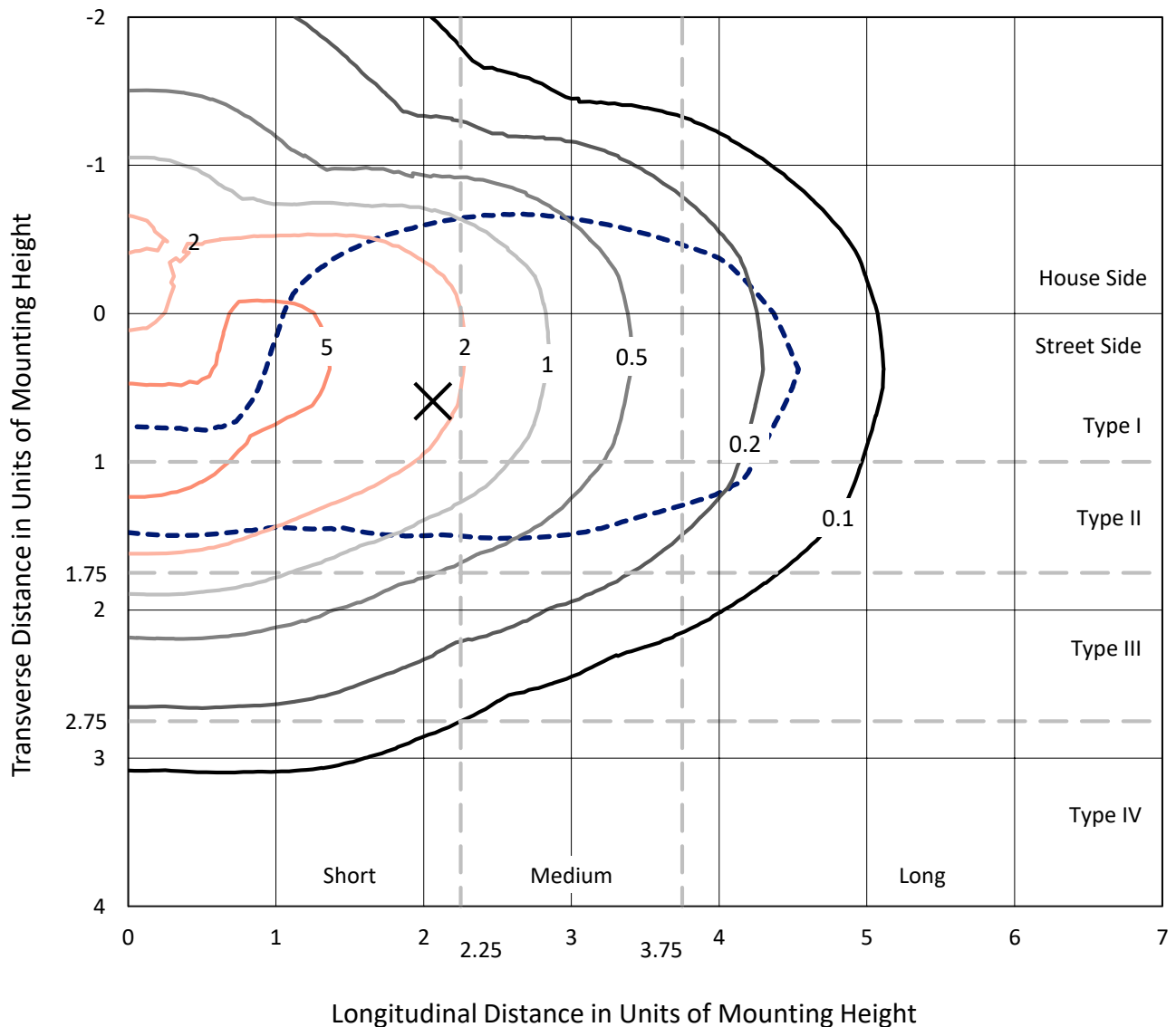
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

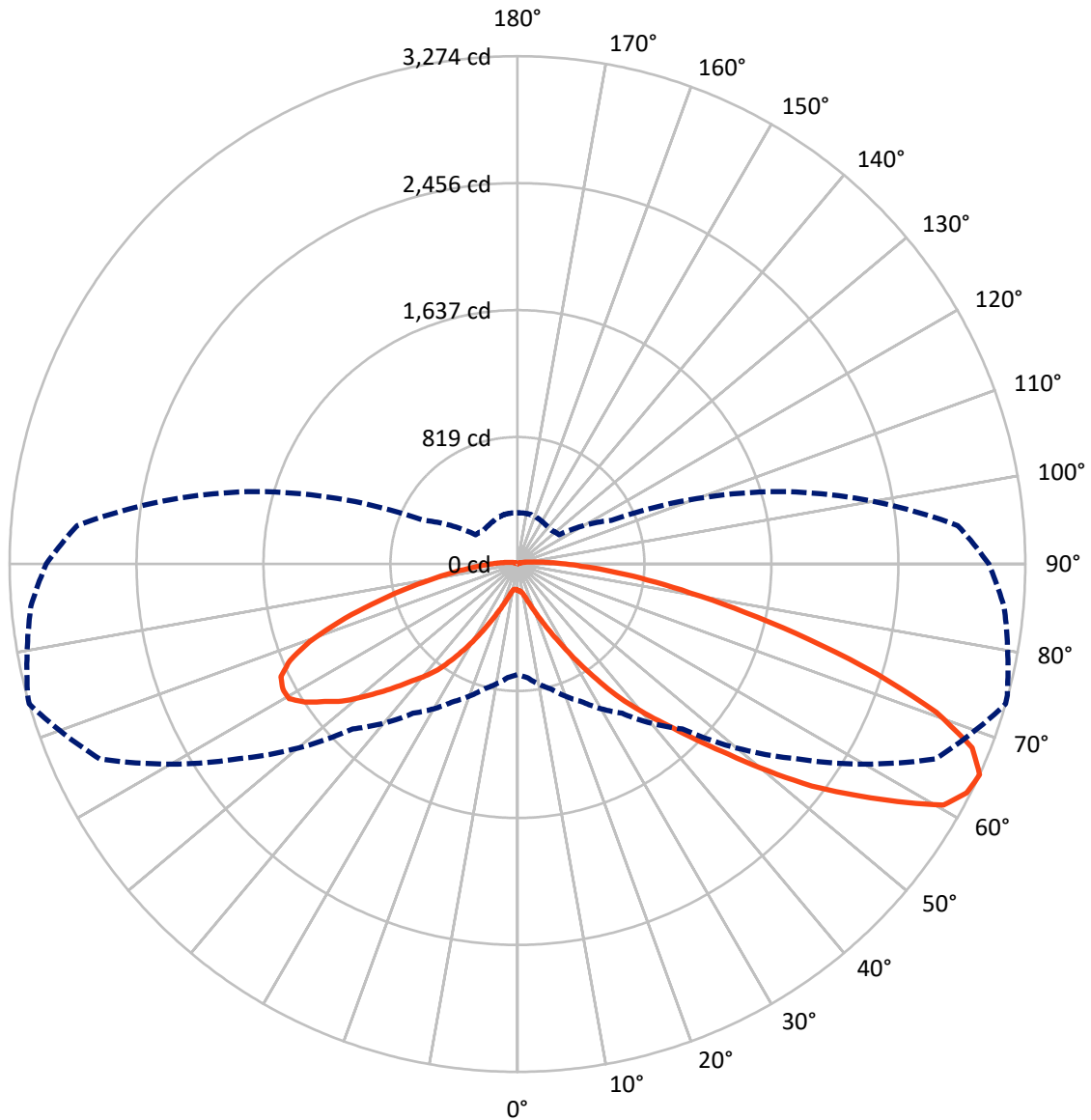
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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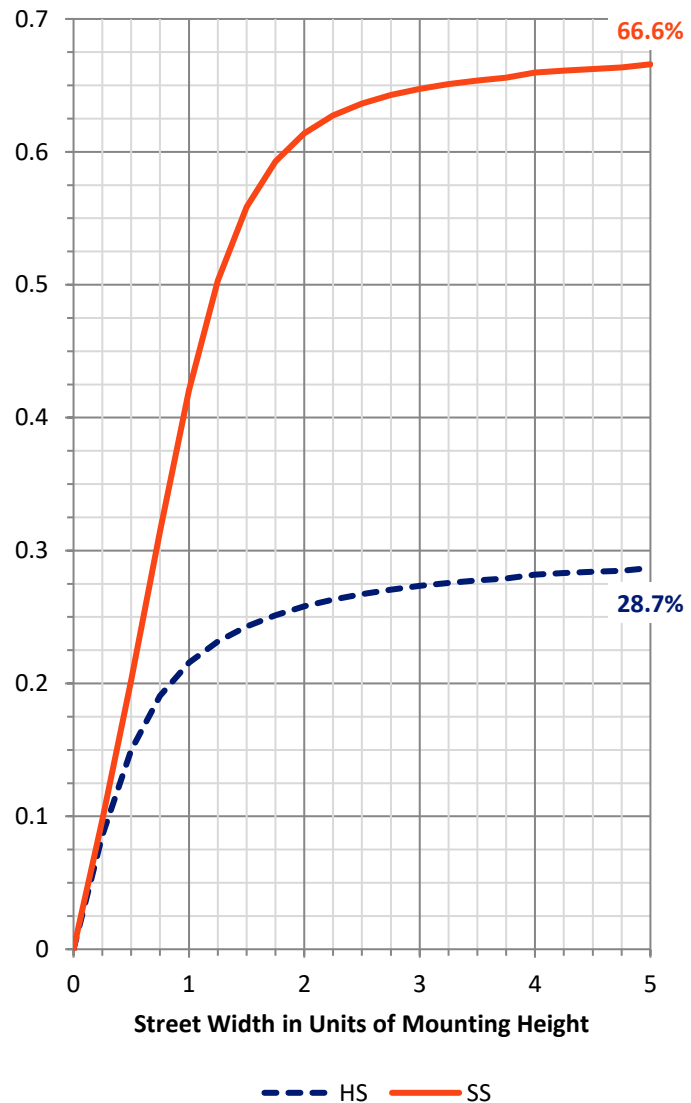
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.3	79.6	1707.9
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	3717.5	81.1	3798.6
	% Fixture	67.5	1.5	69.0
Total	Lumens	5345.8	160.7	5506.5
	% Fixture	97.1	2.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	0.3
10°-20°	69.0	1.3
20°-30°	203.7	3.7
30°-40°	496.9	9.0
40°-50°	907.1	16.5
50°-60°	1290.7	23.4
60°-70°	1299.4	23.6
70°-80°	769.4	14.0
80°-90°	292.8	5.3
90°-100°	92.3	1.7
100°-110°	34.9	0.6
110°-120°	16.7	0.3
120°-130°	9.5	0.2
130°-140°	5.3	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°	5345.8	97.1
0°-180°	5506.5	100.0

Coefficient of Utilization



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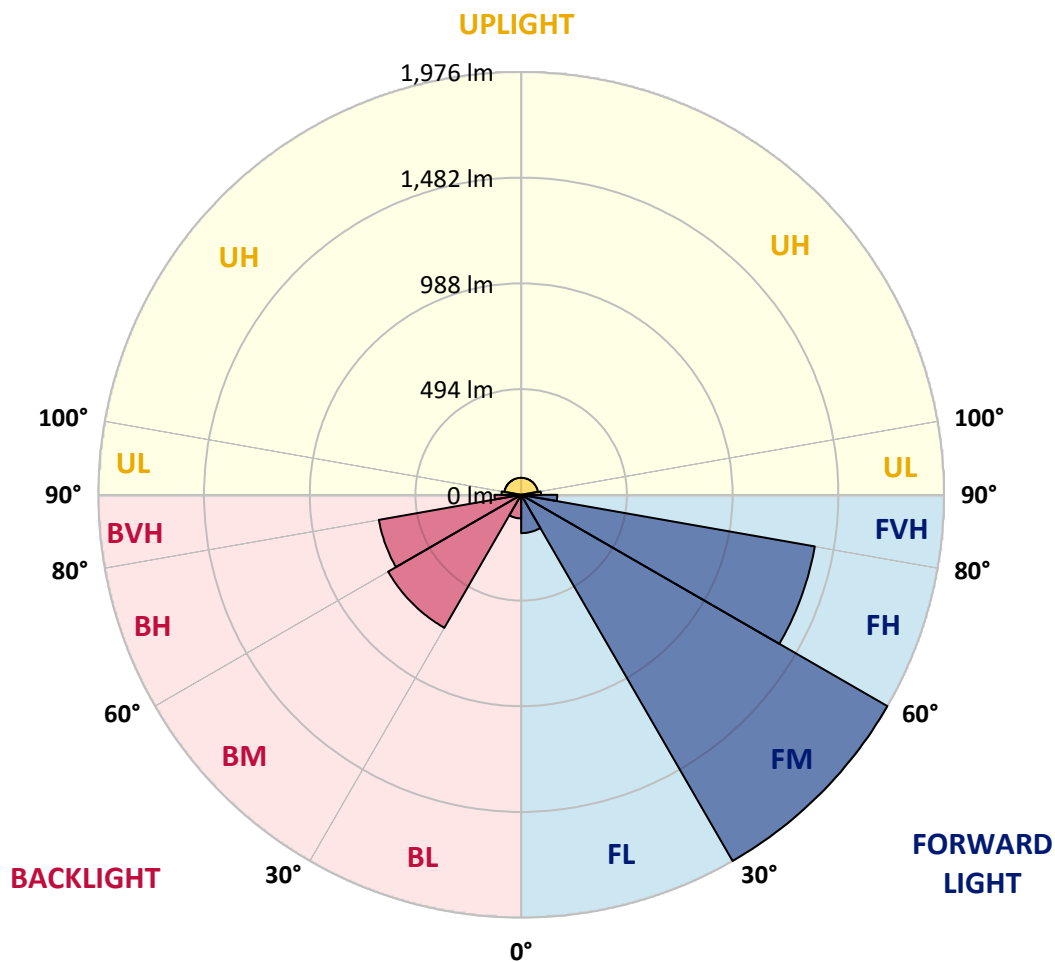
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.3	3.3			
FM (30°-60°)	1976.3	35.9			
FH (60°-80°)	1393.5	25.3			G1/1800
FVH (80°-90°)	168.4	3.1			G2/225
BL (0°-30°)	110.3	2.0	B1/500		
BM (30°-60°)	718.3	13.0	B1/1000		
BH (60°-80°)	675.3	12.3	B2/1000		G2/1000
BVH (80°-90°)	124.4	2.3			G2/225
UL (90°-100°)	92.3	1.7		U3/500	
UH (100°-180°)	79.6	1.4		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	181.3	180.7	181.3	180.7	180.7	179.3	177.3	174.6	172.1	171.3	169.4
5°	193.8	193.8	193.8	192.5	191.2	189.2	185.3	180.7	175.9	175.3	171.3
7.5°	211.0	211.8	210.4	207.8	205.1	199.8	195.2	188.5	182.6	182.0	175.9
10°	236.8	236.2	234.2	230.9	223.6	217.7	209.7	200.5	193.8	192.5	185.3
12.5°	272.6	271.9	268.6	259.3	249.4	238.1	230.3	221.7	215.0	214.3	207.8
15°	318.9	317.5	311.0	299.0	283.2	268.6	262.0	253.4	246.7	246.1	239.5
17.5°	375.7	374.5	365.2	348.0	326.1	309.6	302.4	292.5	285.1	285.8	275.9
20°	447.2	444.0	431.4	408.2	381.8	361.9	350.7	340.7	334.7	334.1	326.8
22.5°	539.2	534.6	512.1	484.3	451.2	424.1	409.5	399.0	395.0	395.6	389.0
25°	656.9	648.3	619.9	581.5	540.5	498.8	481.6	469.7	471.7	473.0	466.4
27.5°	796.6	792.6	748.9	702.6	641.7	588.1	572.2	560.4	564.4	567.6	562.3
30°	969.9	956.7	905.7	836.3	757.5	692.0	671.5	667.6	678.1	682.7	679.4
32.5°	1169.0	1157.8	1088.3	1000.3	885.9	808.4	784.6	795.2	812.4	817.7	813.8
35°	1405.2	1395.3	1302.0	1181.6	1036.0	953.3	921.6	939.5	961.3	965.9	959.9
37.5°	1649.3	1644.0	1542.1	1384.1	1206.1	1098.9	1071.7	1097.5	1120.7	1124.6	1104.8
40°	1858.4	1863.0	1761.1	1585.8	1380.7	1253.7	1237.8	1261.0	1267.5	1269.6	1231.8
42.5°	2028.4	2031.1	1942.4	1765.1	1544.8	1415.2	1406.6	1418.4	1420.4	1420.4	1376.8
45°	2073.4	2087.9	2037.0	1902.1	1701.0	1571.9	1571.9	1599.1	1612.3	1616.3	1560.0
47.5°	2093.9	2104.5	2075.4	1978.1	1826.6	1723.4	1757.8	1820.6	1833.8	1841.2	1769.1
50°	2075.4	2089.9	2084.7	2021.8	1912.6	1862.4	1962.9	2072.7	2097.2	2104.5	2016.4
52.5°	1929.8	1959.0	2002.6	2013.9	1964.9	1978.1	2170.6	2355.9	2377.7	2381.6	2251.3
55°	1719.5	1753.8	1827.9	1906.7	1953.6	2054.9	2372.4	2629.8	2624.5	2627.1	2477.6
57.5°	1454.8	1488.5	1588.4	1712.8	1849.1	2072.1	2493.4	2852.1	2888.4	2895.8	2754.1
60°	1211.4	1225.2	1332.4	1473.4	1653.9	1984.7	2493.4	3037.3	3155.7	3141.8	2950.0
62.5°	930.9	959.3	1071.1	1224.6	1421.1	1771.0	2402.8	3096.2	3250.9	3231.8	3051.9
65°	712.5	735.7	834.2	979.2	1175.0	1503.1	2187.8	2972.5	3274.2	3269.6	3149.8
67.5°	555.8	559.0	643.7	767.4	929.6	1212.7	1835.9	2732.3	3162.4	3161.6	3090.2
70°	420.1	423.4	492.2	606.7	717.8	927.5	1466.1	2341.3	2865.3	2856.7	2889.7
72.5°	320.9	324.8	379.1	470.4	551.8	692.6	1117.4	1882.8	2419.4	2432.0	2480.9
75°	248.1	252.1	294.4	365.2	422.8	508.1	807.1	1417.7	1939.7	1960.3	2062.8
77.5°	191.2	195.2	228.9	282.5	324.8	372.5	562.3	1040.0	1500.5	1527.0	1641.3
80°	146.9	150.9	180.7	219.0	253.4	282.5	396.3	744.9	1129.3	1159.1	1292.1
82.5°	113.8	117.7	142.9	174.0	203.1	222.9	288.5	530.6	842.2	866.6	1004.9
85°	88.0	91.2	112.4	137.0	164.7	182.6	221.0	375.7	604.7	625.2	734.4
87.5°	68.1	70.8	88.0	107.8	133.6	151.5	175.9	273.2	414.8	430.7	503.5
90°	51.6	54.2	68.1	83.4	105.9	125.0	141.0	196.5	285.1	294.4	331.4
92.5°	37.7	39.7	50.9	62.2	80.7	99.2	112.4	145.6	193.8	198.5	214.3
95°	28.4	29.8	37.7	46.3	60.9	76.7	87.4	107.2	130.3	133.0	138.3
97.5°	22.5	23.1	29.2	35.7	47.0	59.5	67.5	78.8	92.0	93.3	96.0
100°	19.2	19.8	24.4	29.8	37.7	47.7	53.6	60.9	68.1	68.8	70.8
102.5°	16.6	17.2	20.5	24.4	31.7	39.7	43.7	48.3	52.3	51.6	53.6
105°	14.5	14.5	17.9	21.2	27.1	33.0	35.7	38.4	39.7	39.7	41.0
107.5°	12.6	13.2	15.2	18.5	23.8	28.4	29.8	30.4	30.4	30.4	31.7
110°	11.3	11.3	13.2	15.9	20.5	24.4	25.2	24.4	23.8	23.8	25.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	9.9	9.9	11.3	14.5	18.5	21.8	21.8	20.5	18.5	18.5	19.8
115°	8.6	9.3	9.9	13.2	17.2	19.8	19.2	17.2	15.2	15.2	16.6
117.5°	8.0	8.0	9.3	11.9	15.9	17.9	17.2	14.5	12.6	12.6	13.9
120°	8.0	8.0	8.6	11.3	14.5	16.6	15.2	12.6	10.5	10.5	12.6
122.5°	8.0	8.0	8.6	10.5	13.2	14.5	13.9	11.3	9.3	9.3	10.5
125°	8.6	8.6	8.6	10.5	12.6	13.9	12.6	10.5	8.6	8.6	9.3
127.5°	9.3	9.3	9.3	10.5	11.9	12.6	11.3	9.3	8.0	8.0	8.6
130°	9.9	9.9	9.3	9.9	11.3	11.3	10.5	8.6	7.3	7.3	8.6
132.5°	9.9	9.9	9.3	9.3	9.9	9.9	9.3	7.3	6.6	6.6	8.0
135°	9.3	9.3	8.6	8.6	8.6	8.6	7.3	5.9	5.9	5.9	6.6
137.5°	8.6	8.6	8.0	8.0	8.0	7.3	5.9	4.6	4.6	4.6	5.9
140°	7.3	7.3	7.3	6.6	6.6	5.9	4.6	4.0	4.0	4.0	4.6
142.5°	6.6	5.9	5.9	5.3	5.3	4.6	3.3	2.7	2.7	2.7	3.3
145°	5.3	5.3	4.6	4.0	4.0	3.3	1.9	1.3	1.9	1.9	2.7
147.5°	4.0	4.0	3.3	3.3	2.7	1.9	0.6	1.3	1.3	1.3	1.9
150°	2.7	2.7	2.7	1.9	1.3	0.6	0.6	0.6	0.6	1.3	1.3
152.5°	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.6	0.6	0.6	1.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
157.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	168.1	167.4	166.0	163.4	162.8	161.4	159.5	158.8	157.4	158.1	157.4
5°	169.4	168.1	163.4	160.8	157.4	155.5	153.4	152.1	150.9	150.2	149.6
7.5°	172.7	170.7	165.4	160.1	155.5	152.1	149.6	147.5	146.2	145.6	144.8
10°	181.3	178.6	170.7	163.4	156.1	151.5	148.2	146.2	144.8	144.8	144.8
12.5°	202.4	199.2	187.2	174.6	162.8	155.5	151.5	154.2	157.4	160.8	162.8
15°	232.9	228.9	214.3	196.5	178.6	168.1	168.7	174.0	178.0	182.0	182.6
17.5°	271.3	266.0	247.5	223.6	199.8	191.2	188.5	193.8	200.5	204.4	206.4
20°	318.9	312.3	288.5	255.3	231.6	219.0	213.0	215.0	222.3	228.9	229.6
22.5°	379.7	367.9	340.0	294.4	264.6	245.4	236.8	236.8	246.7	255.3	256.7
25°	457.2	445.9	401.6	344.0	300.3	271.3	261.4	263.3	276.5	287.8	289.1
27.5°	552.4	536.5	478.3	402.9	337.4	293.7	283.2	288.5	301.7	313.6	314.9
30°	666.2	641.1	567.0	466.4	373.8	316.2	299.7	306.3	318.2	330.8	330.8
32.5°	795.2	765.5	666.9	533.9	408.2	332.2	308.9	317.5	329.5	342.1	341.4
35°	934.8	900.4	770.7	602.0	439.3	343.4	313.6	323.6	337.4	352.6	352.6
37.5°	1076.3	1041.4	875.2	662.9	461.1	344.6	314.9	329.5	348.0	361.9	360.6
40°	1192.9	1145.2	959.9	706.6	470.4	341.4	316.9	332.8	346.7	352.6	351.3
42.5°	1332.4	1271.5	1043.9	729.1	464.4	335.4	317.5	328.8	335.4	335.4	332.8
45°	1501.1	1431.6	1148.5	752.9	449.2	328.8	314.3	320.9	320.9	315.6	311.6
47.5°	1705.6	1611.6	1258.9	774.1	434.0	322.8	311.0	313.6	306.3	298.4	295.7
50°	1943.7	1830.0	1380.7	789.3	419.4	318.2	309.6	308.3	303.0	295.0	292.5
52.5°	2163.3	2035.7	1507.1	801.2	404.3	316.2	309.6	309.6	304.3	293.1	290.4
55°	2379.7	2243.4	1608.3	794.5	387.7	316.9	312.3	313.6	306.3	295.0	292.5
57.5°	2652.3	2505.4	1728.7	782.7	370.5	318.2	314.9	316.2	309.6	299.0	296.3
60°	2841.5	2678.7	1814.7	764.1	354.6	318.2	316.2	318.2	316.2	311.0	308.9
62.5°	2954.0	2772.7	1823.9	721.8	342.7	315.6	314.9	321.5	326.1	324.2	322.2
65°	3038.6	2849.4	1803.5	666.9	328.8	308.3	311.6	322.2	330.1	330.8	330.1
67.5°	2973.1	2777.9	1704.2	602.7	312.3	299.0	305.7	317.5	329.5	333.5	332.8
70°	2772.0	2580.2	1533.5	524.0	293.1	284.5	293.7	309.6	322.2	326.8	325.5
72.5°	2358.5	2187.2	1298.6	448.6	270.6	265.3	275.2	293.7	304.3	307.0	304.9
75°	1952.3	1801.5	1042.7	369.8	246.1	241.5	250.7	265.3	272.6	272.6	269.2
77.5°	1560.6	1420.4	821.0	307.0	221.0	215.6	224.2	232.9	234.2	229.6	226.3
80°	1225.9	1093.5	621.9	254.0	195.2	189.9	192.5	197.8	199.8	191.2	186.6
82.5°	950.7	832.3	467.1	210.4	170.0	163.4	165.4	168.1	168.7	158.1	152.8
85°	685.4	596.1	342.7	177.3	146.2	140.2	139.6	140.2	141.0	131.7	127.1
87.5°	470.4	408.2	250.7	148.8	126.3	120.4	119.1	118.5	118.5	108.5	103.8
90°	309.6	273.8	186.6	125.7	107.2	101.3	98.6	97.9	96.6	86.0	82.0
92.5°	201.1	183.9	138.3	103.2	88.7	83.4	80.1	78.1	76.1	66.2	62.2
95°	131.7	124.4	104.5	82.7	71.4	66.8	64.1	61.5	58.9	50.3	47.7
97.5°	93.3	90.6	81.3	66.8	56.9	53.6	51.6	49.6	47.7	40.4	39.1
100°	70.2	69.5	65.5	54.9	46.3	44.3	42.4	41.0	39.7	34.4	33.0
102.5°	54.2	54.9	53.6	45.0	39.1	37.0	35.7	34.4	33.8	29.8	29.2
105°	42.4	43.7	43.0	37.7	33.0	31.7	30.4	29.2	28.4	25.8	25.8
107.5°	33.0	34.4	35.1	31.1	28.4	27.1	25.8	24.4	24.4	23.1	23.1
110°	26.5	27.8	29.2	26.5	24.4	23.8	22.5	21.2	20.5	20.5	20.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.8	22.5	23.8	22.5	21.2	20.5	19.2	17.9	17.9	17.9	18.5
115°	17.9	19.2	19.8	19.2	18.5	18.5	16.6	15.2	14.5	15.9	15.9
117.5°	15.2	16.6	17.2	16.6	16.6	16.6	14.5	13.2	12.6	13.2	13.9
120°	13.2	13.9	14.5	14.5	14.5	14.5	13.2	11.3	10.5	11.9	11.9
122.5°	11.3	11.9	12.6	13.2	13.2	12.6	11.3	9.9	9.3	10.5	10.5
125°	9.9	10.5	11.3	11.9	11.9	11.3	9.9	8.6	8.0	9.3	9.3
127.5°	9.3	9.9	10.5	10.5	10.5	9.9	8.6	7.3	7.3	8.0	8.6
130°	9.3	9.3	9.9	9.9	9.3	8.6	7.3	5.9	5.9	7.3	7.3
132.5°	8.6	8.6	8.6	8.6	8.0	7.3	5.9	5.3	5.3	6.6	6.6
135°	7.3	7.3	7.3	7.3	6.6	5.9	5.3	4.0	4.6	5.3	5.3
137.5°	5.9	5.9	5.9	5.9	5.3	4.6	4.0	3.3	3.3	4.0	4.6
140°	4.6	5.3	5.3	4.6	4.0	4.0	2.7	1.9	2.7	3.3	3.3
142.5°	4.0	4.0	4.0	3.3	3.3	2.7	1.9	1.3	1.9	2.7	2.7
145°	3.3	3.3	3.3	3.3	2.7	1.3	0.6	0.6	1.3	1.3	1.3
147.5°	2.7	2.7	2.7	2.7	1.9	1.3	0.0	0.0	0.6	0.6	0.6
150°	1.9	1.9	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0
152.5°	1.3	1.3	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	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)