

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: P254367

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254367
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-AF24-50-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5473.8 lumens
Efficiency: N/A
Efficacy: 101.4 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: B1 - U3 - G3

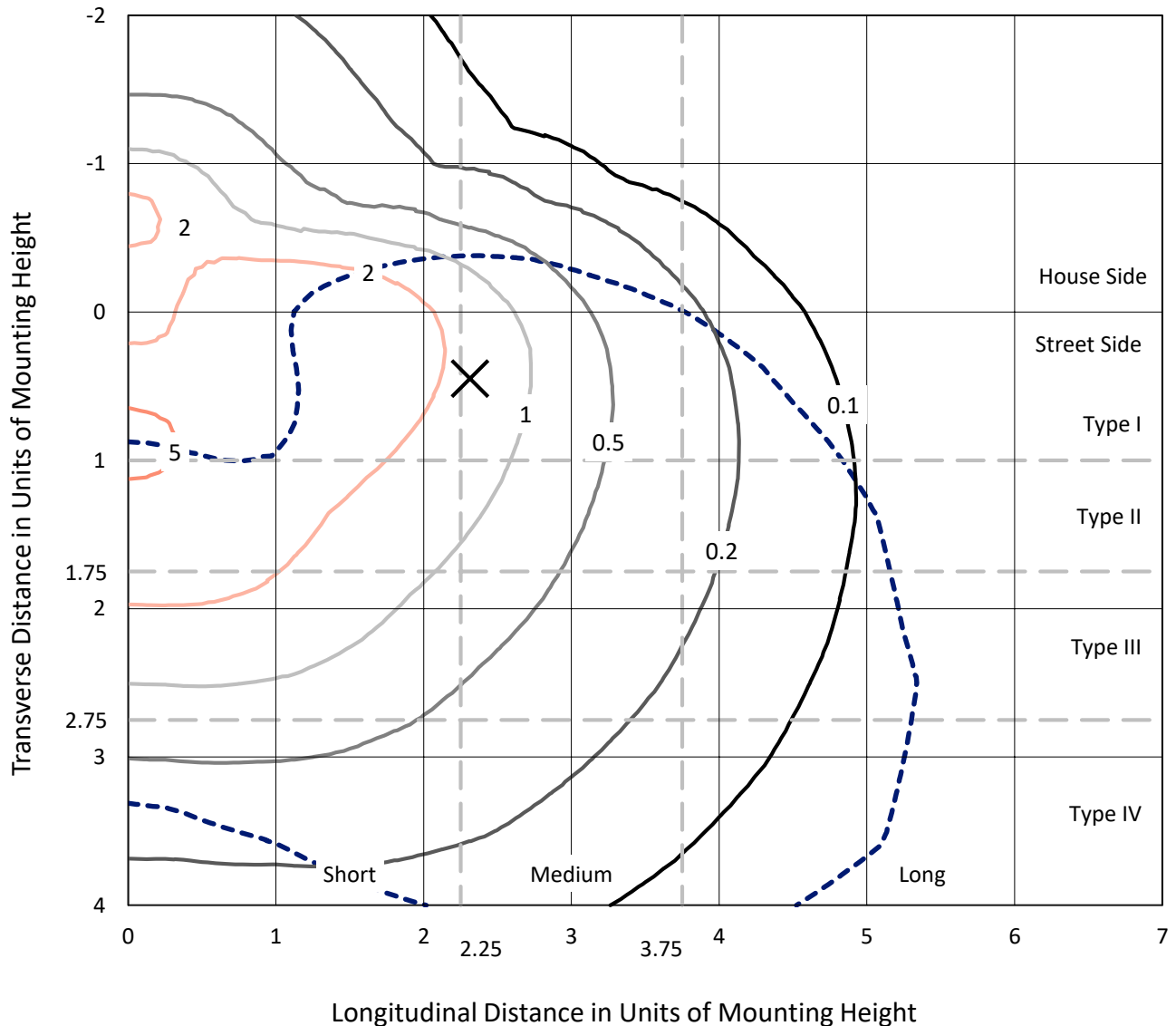
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

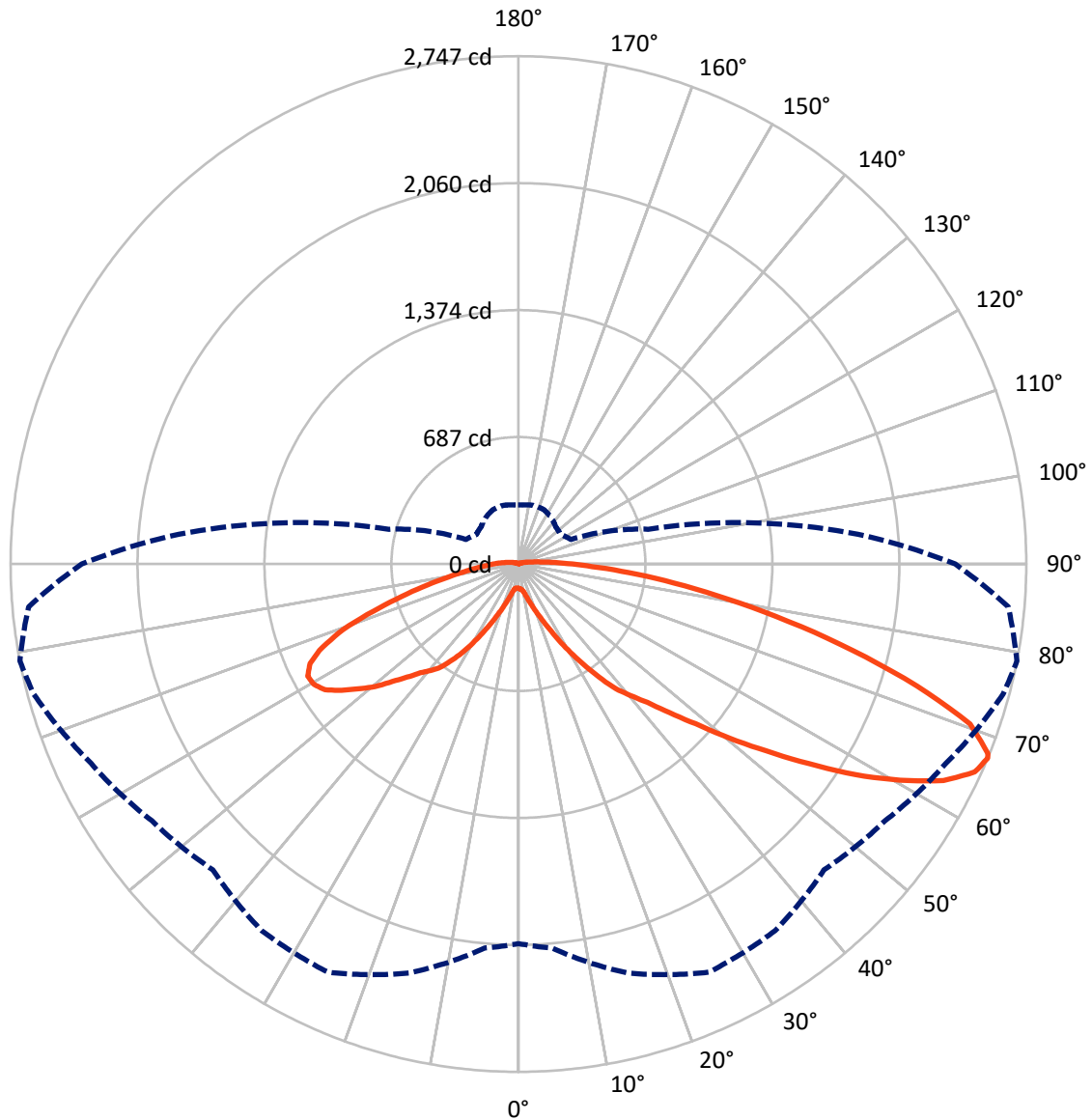
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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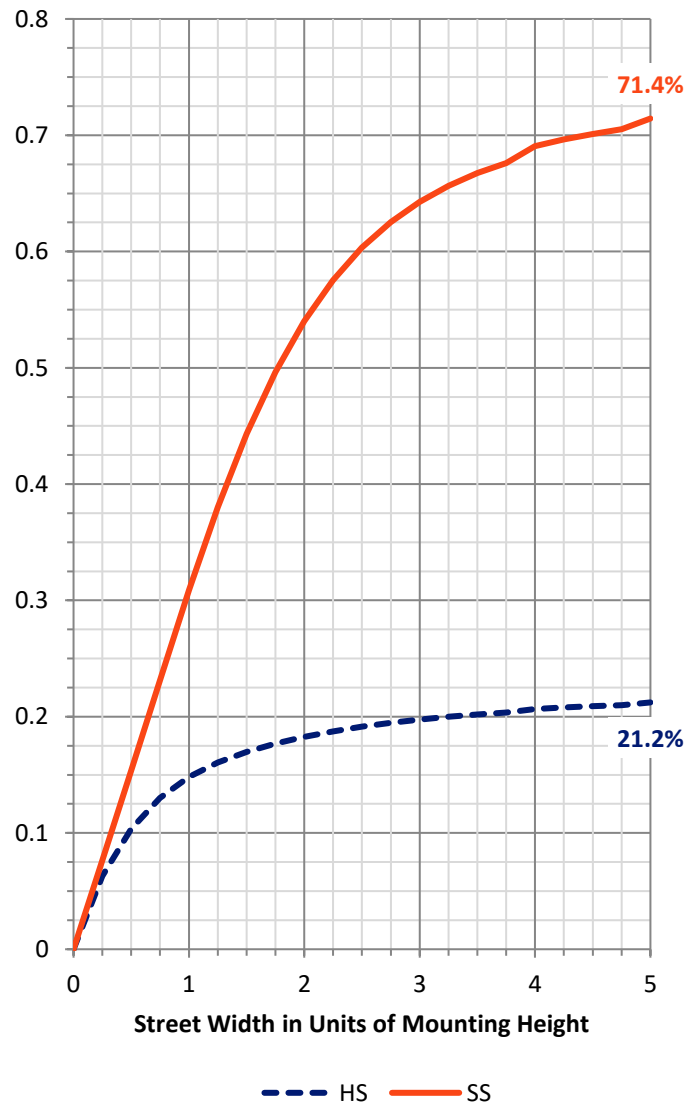
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.7	82.4	1303.1
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	4056.5	114.2	4170.7
	% Fixture	74.1	2.1	76.2
Total	Lumens	5277.3	196.5	5473.8
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.2
10°-20°	56.2	1.0
20°-30°	162.2	3.0
30°-40°	367.9	6.7
40°-50°	639.3	11.7
50°-60°	1024.3	18.7
60°-70°	1427.3	26.1
70°-80°	1127.4	20.6
80°-90°	459.2	8.4
90°-100°	131.0	2.4
100°-110°	39.0	0.7
110°-120°	15.1	0.3
120°-130°	7.3	0.1
130°-140°	3.3	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5277.3	96.4
0°-180°	5473.8	100.0



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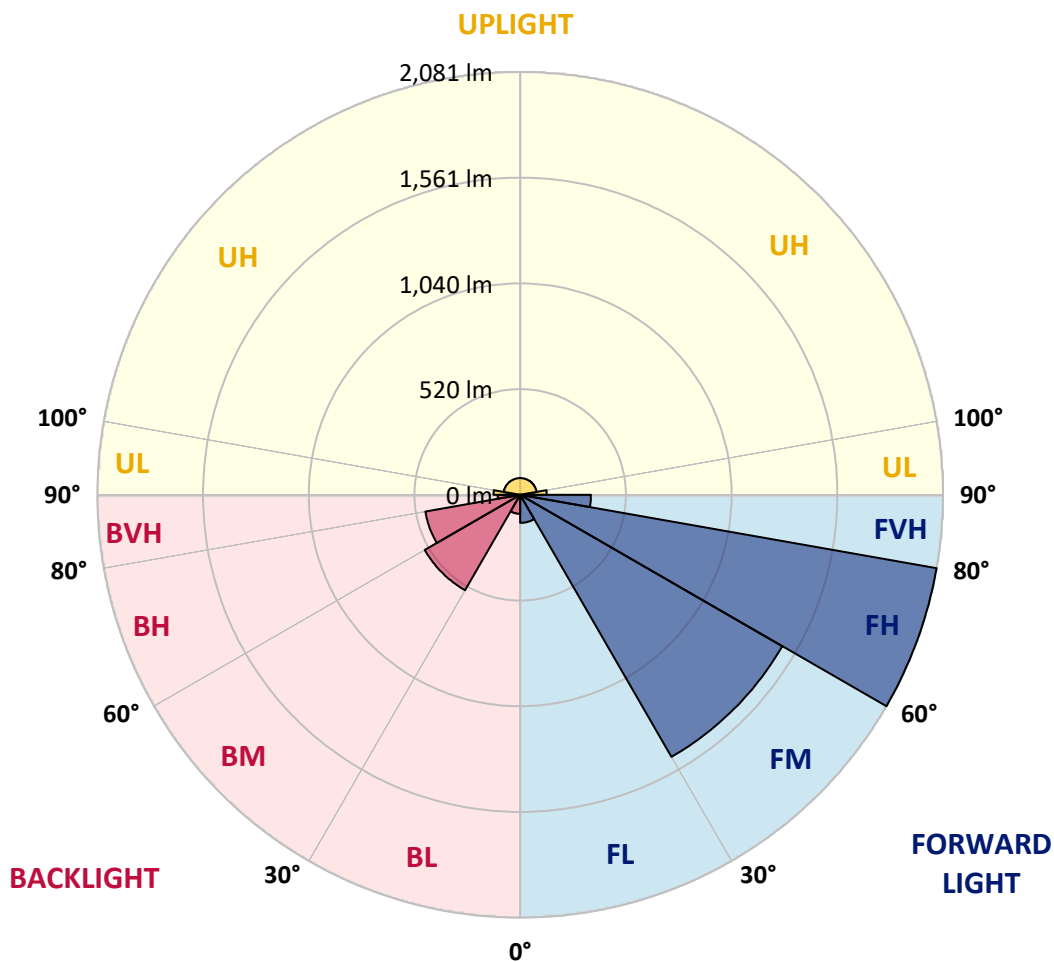
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.2	2.5			
FM (30°-60°)	1489.2	27.2			
FH (60°-80°)	2080.8	38.0			G2/5000
FVH (80°-90°)	348.3	6.4			G3/500
BL (0°-30°)	93.6	1.7	B0/110		
BM (30°-60°)	542.3	9.9	B1/1000		
BH (60°-80°)	474.0	8.7	B1/500		G1/500
BVH (80°-90°)	110.9	2.0			G2/225
UL (90°-100°)	131.0	2.4		U3/500	
UH (100°-180°)	82.4	1.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7
2.5°	140.2	140.2	141.0	141.0	141.0	139.6	137.6	135.6	134.3	133.7	132.4
5°	150.9	150.2	150.9	150.2	150.2	147.5	144.2	141.0	138.3	137.0	134.9
7.5°	166.0	166.0	165.4	164.1	162.8	158.1	152.8	148.8	145.0	142.3	140.2
10°	185.3	186.0	184.6	181.3	178.0	172.1	166.0	160.8	154.9	151.5	148.8
12.5°	215.0	215.0	212.4	205.1	197.1	189.9	183.3	178.0	175.3	172.1	169.4
15°	252.1	251.4	247.5	236.2	225.7	213.1	208.4	205.1	203.2	200.5	197.1
17.5°	295.7	295.1	287.9	272.6	256.0	246.8	239.5	236.2	237.5	234.9	232.2
20°	348.0	346.7	335.4	314.3	297.8	285.2	277.2	273.9	277.9	275.9	273.9
22.5°	414.8	411.5	395.7	365.2	346.1	325.5	318.2	316.9	326.2	326.2	326.2
25°	494.3	490.9	467.1	432.1	398.3	373.2	365.9	373.2	388.4	390.4	394.3
27.5°	586.3	582.3	553.1	504.2	459.2	425.4	419.5	434.0	457.9	467.1	471.1
30°	694.7	692.1	650.4	588.2	524.7	482.3	475.8	502.2	539.2	553.8	563.7
32.5°	823.1	819.8	759.5	686.1	597.5	544.5	539.2	579.6	635.2	649.1	668.9
35°	981.9	978.6	899.2	796.7	678.8	610.7	610.7	663.0	731.1	750.3	774.8
37.5°	1141.3	1140.7	1060.6	923.6	768.8	683.5	684.8	745.0	827.1	856.8	879.3
40°	1296.8	1298.1	1206.9	1050.1	869.4	763.5	762.9	823.8	909.1	934.9	956.8
42.5°	1438.5	1437.8	1351.7	1184.4	974.0	850.2	838.3	897.8	988.5	1023.6	1052.7
45°	1537.0	1544.2	1478.2	1305.4	1079.1	940.2	915.7	981.9	1097.7	1146.0	1185.0
47.5°	1659.4	1660.0	1599.2	1419.2	1187.0	1033.5	1011.0	1094.4	1241.2	1291.6	1332.6
50°	1794.4	1801.0	1752.7	1562.1	1308.8	1138.7	1130.1	1235.3	1409.9	1480.8	1531.8
52.5°	1909.5	1917.4	1887.7	1725.6	1455.7	1273.7	1273.7	1407.4	1594.6	1679.3	1728.9
55°	1994.2	2007.4	2014.7	1882.4	1621.7	1431.8	1446.4	1596.5	1804.3	1905.6	1965.8
57.5°	2061.7	2080.3	2114.6	2022.0	1785.2	1621.7	1642.9	1803.7	2056.4	2151.1	2214.6
60°	2161.6	2182.8	2245.0	2171.5	1973.1	1826.2	1854.6	2029.9	2288.0	2373.3	2421.6
62.5°	2171.5	2197.3	2323.0	2333.7	2149.0	2026.0	2088.9	2260.8	2507.0	2581.1	2591.6
65°	2125.9	2159.7	2326.4	2423.0	2336.3	2213.3	2301.8	2460.0	2663.8	2712.8	2685.7
67°	2053.1	2085.5	2290.6	2436.2	2421.0	2338.3	2421.0	2551.3	2714.7	2747.1	2659.9
67.5°	2022.0	2053.1	2270.7	2433.6	2431.6	2360.2	2440.1	2571.2	2717.4	2739.3	2640.6
70°	1822.9	1865.9	2098.8	2348.9	2427.0	2380.0	2473.9	2564.5	2600.3	2592.4	2450.8
72.5°	1472.8	1513.1	1767.2	2117.3	2295.9	2272.1	2355.4	2372.0	2309.2	2254.9	2061.7
75°	1080.4	1098.3	1332.6	1709.0	2002.1	2029.3	2092.1	2055.1	1939.9	1867.8	1671.3
77.5°	750.3	768.1	948.2	1294.2	1614.4	1715.7	1777.9	1723.6	1602.6	1492.0	1277.7
80°	496.9	506.2	647.1	942.9	1266.4	1407.4	1460.9	1405.3	1251.9	1143.4	940.2
82.5°	303.0	320.9	422.8	661.0	979.3	1152.6	1191.6	1127.5	961.4	848.9	677.5
85°	182.0	191.2	270.6	446.6	720.6	914.4	951.4	868.1	700.0	598.8	453.9
87.5°	112.5	116.4	170.0	289.2	505.5	682.8	722.5	623.9	472.4	399.0	303.7
90°	72.7	76.1	111.8	190.6	334.1	486.3	504.2	424.7	314.3	266.0	205.8
92.5°	49.0	51.7	76.1	126.3	219.6	319.0	332.2	280.5	207.8	177.3	140.2
95°	34.4	36.4	53.6	86.0	142.9	196.5	210.4	182.0	135.6	117.1	96.6
97.5°	26.5	27.8	40.4	62.2	96.6	127.1	132.4	118.5	92.0	80.7	70.2
100°	21.2	22.5	31.7	47.0	69.5	86.6	90.0	81.4	64.9	58.2	51.7
102.5°	18.5	18.5	25.8	37.0	52.3	64.1	64.9	58.2	47.7	43.0	39.7
105°	15.9	15.9	21.2	29.8	41.6	49.6	49.6	43.0	35.1	31.7	30.5
107.5°	13.2	13.9	17.9	23.8	33.0	39.7	38.4	31.7	25.2	23.1	22.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	11.3	11.9	15.2	19.8	27.1	32.4	30.5	24.4	18.5	17.2	17.2
112.5°	9.9	10.5	12.6	17.2	23.1	27.1	24.4	18.5	13.9	13.2	13.9
115°	9.3	9.3	11.3	15.2	19.8	22.5	20.6	15.2	11.3	10.5	11.3
117.5°	8.0	8.6	9.9	13.2	17.9	19.2	17.2	11.9	8.6	8.6	9.9
120°	8.0	8.0	9.3	11.9	15.9	17.2	14.5	9.9	7.3	7.3	8.6
122.5°	7.3	7.3	8.6	11.3	13.9	15.2	12.6	8.6	6.6	6.6	7.3
125°	7.3	7.3	8.6	10.5	12.6	12.6	10.5	7.3	5.9	5.9	6.6
127.5°	8.0	8.0	8.6	9.9	11.3	11.3	9.3	6.6	5.3	5.3	5.9
130°	8.0	8.0	8.0	9.3	9.9	9.3	8.0	5.9	5.3	5.3	5.9
132.5°	8.0	8.0	8.0	8.0	8.6	8.0	6.6	4.6	4.6	4.6	5.3
135°	7.3	7.3	6.6	7.3	7.3	5.9	4.6	3.3	4.0	4.0	4.6
137.5°	5.9	5.9	5.9	5.9	5.3	4.6	3.3	2.7	3.3	4.0	4.0
140°	5.3	5.3	4.6	4.6	4.0	3.3	1.9	2.7	3.3	3.3	3.3
142.5°	4.0	4.0	4.0	3.3	2.7	1.9	1.3	1.9	2.7	2.7	3.3
145°	2.7	2.7	2.7	1.9	1.3	0.6	1.3	1.3	1.9	2.7	2.7
147.5°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.3	1.9	1.9	1.9
150°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6	1.3	1.9	1.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3	1.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
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°	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7
2.5°	131.7	131.0	129.0	127.7	126.3	125.7	125.0	125.0	124.4	123.8	123.8
5°	133.7	132.4	129.0	126.3	124.4	123.1	121.7	121.1	119.8	119.1	119.1
7.5°	137.6	135.6	131.7	127.1	123.8	121.7	120.4	119.1	117.7	117.7	117.7
10°	145.6	142.9	137.0	131.0	125.7	123.1	121.7	120.4	120.4	119.8	119.8
12.5°	165.4	161.4	151.5	141.0	131.7	127.7	126.3	129.7	133.7	134.3	136.3
15°	192.5	188.5	176.0	160.8	145.6	137.0	141.6	147.5	154.2	159.5	159.5
17.5°	226.3	221.7	204.5	183.3	164.8	159.5	160.8	169.4	178.6	183.3	183.9
20°	268.0	261.4	237.5	208.4	187.9	179.9	182.0	190.6	203.8	210.4	211.8
22.5°	320.3	310.4	278.5	237.5	212.4	201.8	203.8	214.4	232.2	241.5	244.8
25°	386.4	373.8	325.5	272.6	236.9	221.0	227.0	243.5	266.0	279.9	279.3
27.5°	462.5	442.6	382.5	309.0	261.4	239.5	248.8	271.9	299.1	315.0	316.9
30°	553.8	528.0	444.7	347.4	282.5	256.0	268.0	297.1	327.5	348.7	350.7
32.5°	655.0	624.6	508.1	385.8	299.7	268.6	281.8	318.2	353.3	378.5	379.1
35°	758.9	719.9	568.4	418.8	314.3	278.5	292.5	334.1	375.1	404.3	406.2
37.5°	858.2	812.5	623.9	440.7	323.6	283.9	298.4	347.4	393.7	424.7	426.8
40°	932.9	876.7	658.4	448.0	325.5	286.5	303.7	352.6	393.7	417.5	418.8
42.5°	1026.8	952.8	683.5	440.7	320.3	286.5	305.7	346.1	377.8	393.7	393.7
45°	1152.6	1061.3	721.9	432.1	309.6	284.5	300.4	331.5	352.6	360.6	360.6
47.5°	1302.8	1183.7	760.9	426.1	301.7	279.9	292.5	313.6	324.9	325.5	324.2
50°	1492.7	1338.5	809.2	417.5	297.1	275.3	285.2	299.1	305.7	303.0	301.7
52.5°	1674.0	1476.1	843.6	406.9	294.4	273.2	281.2	293.1	295.1	287.1	285.2
55°	1890.3	1637.5	867.5	389.7	291.7	274.6	281.2	291.1	289.8	279.3	277.2
57.5°	2106.1	1789.1	888.6	374.5	289.2	276.6	283.9	292.5	289.8	279.9	277.9
60°	2271.5	1893.0	876.7	358.6	286.5	279.9	288.5	297.1	297.1	289.2	288.5
62.5°	2401.2	1955.2	848.2	342.1	284.5	282.5	294.4	307.0	309.6	303.7	303.0
65°	2430.2	1930.0	793.3	326.2	281.8	284.5	302.4	318.2	320.3	314.3	313.6
67°	2362.1	1844.1	725.8	312.9	277.9	285.2	307.7	324.9	327.5	321.5	319.6
67.5°	2332.3	1810.3	708.6	309.6	276.6	285.2	308.3	325.5	328.9	322.8	320.9
70°	2104.0	1609.8	616.6	291.1	268.0	281.8	309.6	330.2	332.2	324.9	322.2
72.5°	1743.4	1298.1	510.1	273.2	257.4	273.2	305.0	326.8	326.2	315.6	313.6
75°	1382.2	1017.6	410.9	252.8	242.8	260.0	292.5	311.6	307.7	295.1	292.5
77.5°	1050.1	760.9	334.1	232.2	226.3	242.8	271.3	285.2	277.2	265.4	262.7
80°	748.3	547.9	271.9	213.1	208.4	223.0	244.8	252.1	246.8	235.6	232.2
82.5°	523.3	393.7	226.3	193.8	191.2	202.4	216.4	223.6	221.0	211.0	208.4
85°	361.9	275.3	190.6	174.7	173.4	181.3	189.9	194.6	196.5	191.2	187.9
87.5°	243.5	202.4	162.1	153.5	154.2	160.1	166.0	170.7	176.7	176.0	172.7
90°	174.0	151.5	135.6	131.7	133.0	139.6	142.3	145.0	152.2	152.2	150.2
92.5°	124.4	115.1	109.9	108.5	111.2	116.4	117.7	118.5	123.8	124.4	120.4
95°	88.7	84.0	86.0	87.4	90.0	94.6	93.9	92.0	94.6	94.6	91.3
97.5°	65.5	64.1	68.1	69.5	71.5	75.4	73.4	70.2	72.1	69.5	67.5
100°	50.3	50.3	54.9	55.5	56.9	58.9	58.2	55.5	56.3	52.9	51.7
102.5°	39.7	40.4	43.7	44.3	45.6	47.7	46.3	45.0	43.7	39.7	39.7
105°	31.1	31.7	34.4	35.1	36.4	38.4	37.7	35.7	33.8	30.5	30.5
107.5°	23.8	25.2	27.1	27.8	29.2	31.1	30.5	27.8	25.2	23.1	23.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.5	19.8	21.8	22.5	23.1	25.2	23.8	21.2	19.2	17.9	17.9
112.5°	15.2	15.9	17.9	18.5	19.2	20.6	19.2	16.6	14.5	13.9	13.9
115°	12.6	13.2	14.5	15.2	16.6	16.6	15.2	12.6	11.3	11.3	11.3
117.5°	10.5	11.3	12.6	13.2	13.2	13.9	11.9	9.9	8.6	9.3	9.3
120°	9.3	9.3	10.5	10.5	11.3	11.3	9.9	8.0	6.6	7.3	8.0
122.5°	8.0	8.0	8.6	9.3	9.3	9.3	8.0	6.6	5.3	5.9	6.6
125°	6.6	7.3	7.3	8.0	8.0	8.0	6.6	5.3	4.6	5.3	5.3
127.5°	6.6	6.6	6.6	6.6	6.6	6.6	5.3	4.0	4.0	4.6	4.6
130°	5.9	5.9	5.9	5.9	5.3	4.6	4.0	2.7	3.3	4.0	4.0
132.5°	5.3	5.3	5.3	4.6	4.0	3.3	2.7	1.9	1.9	3.3	3.3
135°	4.6	4.6	4.0	3.3	2.7	1.9	1.3	1.3	1.3	2.7	2.7
137.5°	4.0	4.0	3.3	2.7	1.9	1.3	0.6	0.0	0.6	1.3	1.3
140°	4.0	4.0	3.3	1.9	1.3	0.6	0.0	0.0	0.0	0.6	0.6
142.5°	3.3	3.3	2.7	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.7	2.7	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.9	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	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)