

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: P254744

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T2U-CL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-40-D-U-T2U-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4363.8 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - G2

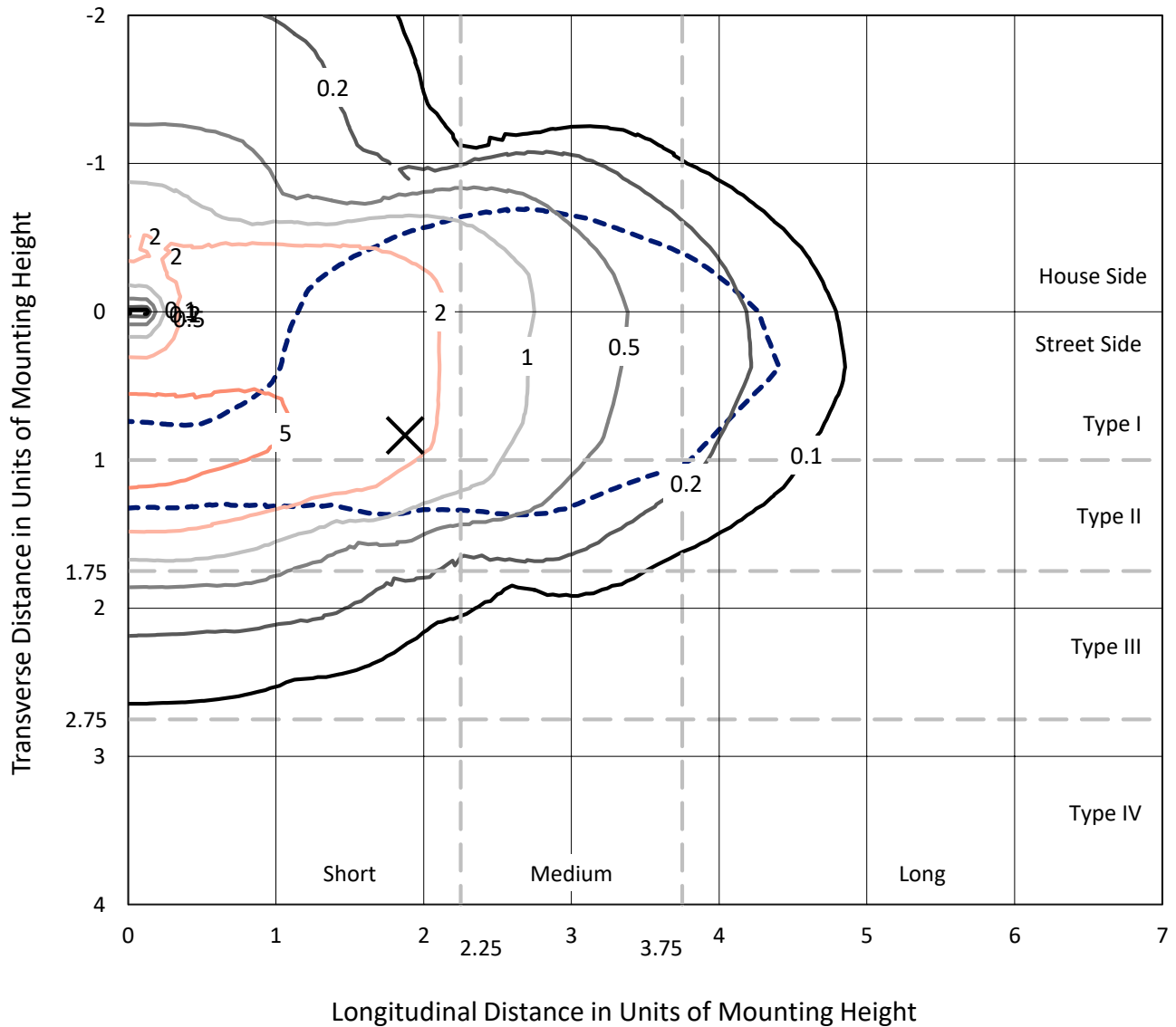
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

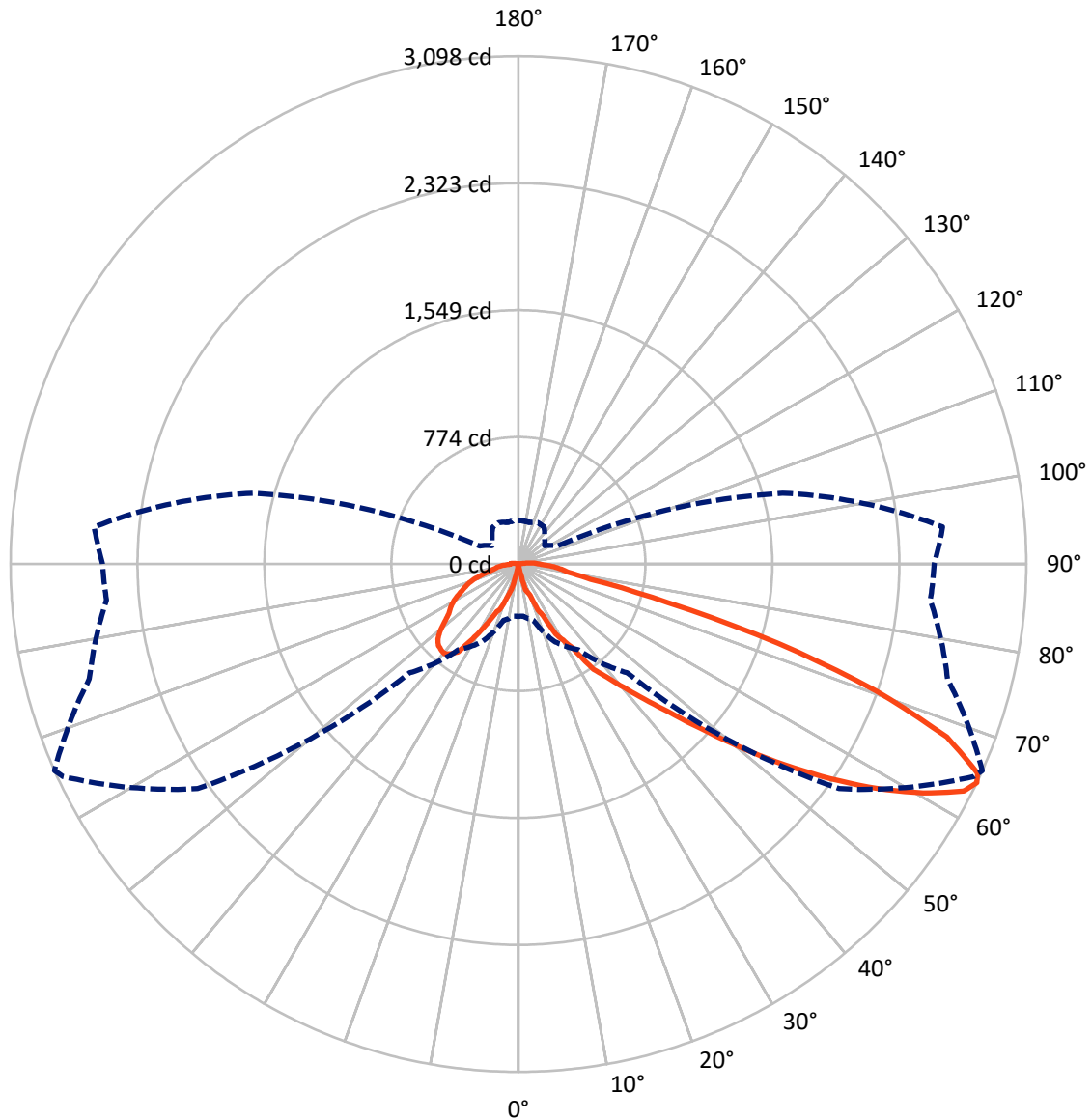
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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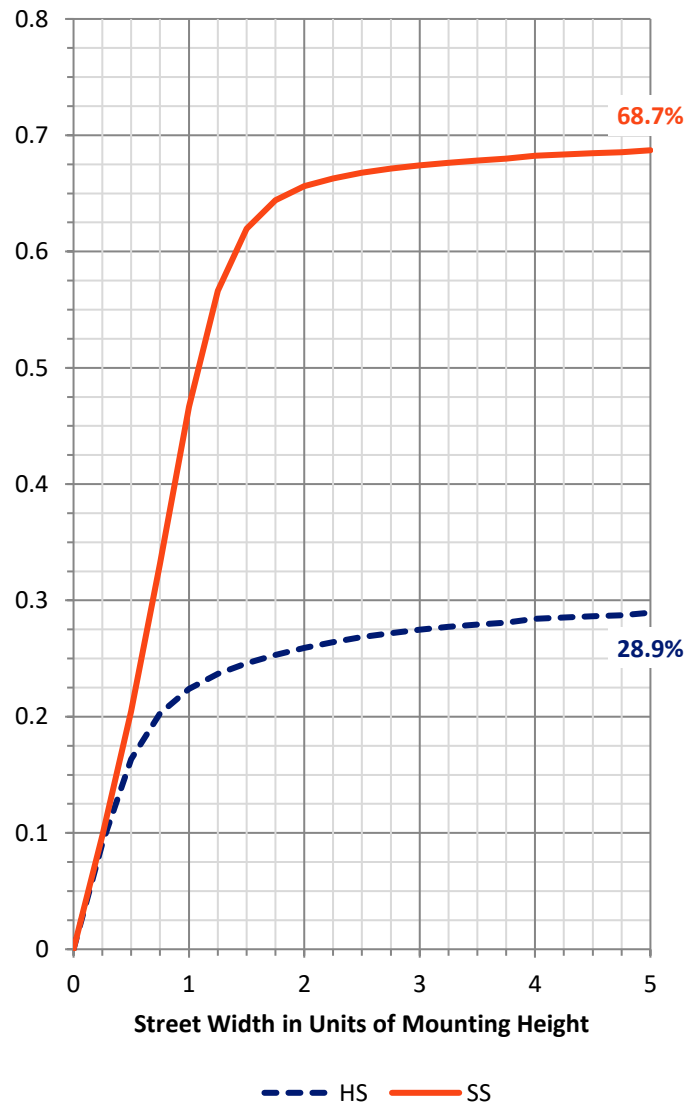
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.4	26.7	1318.1
	% Fixture	29.6	0.6	30.2
Street Side	Lumens	3021.5	24.2	3045.7
	% Fixture	69.2	0.6	69.8
Total	Lumens	4312.9	50.9	4363.8
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	42.3	1.0
20°-30°	170.5	3.9
30°-40°	431.7	9.9
40°-50°	823.1	18.9
50°-60°	1104.2	25.3
60°-70°	1022.4	23.4
70°-80°	575.0	13.2
80°-90°	140.7	3.2
90°-100°	42.9	1.0
100°-110°	5.1	0.1
110°-120°	1.4	0.0
120°-130°	0.8	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4312.9	98.8
0°-180°	4363.8	100.0



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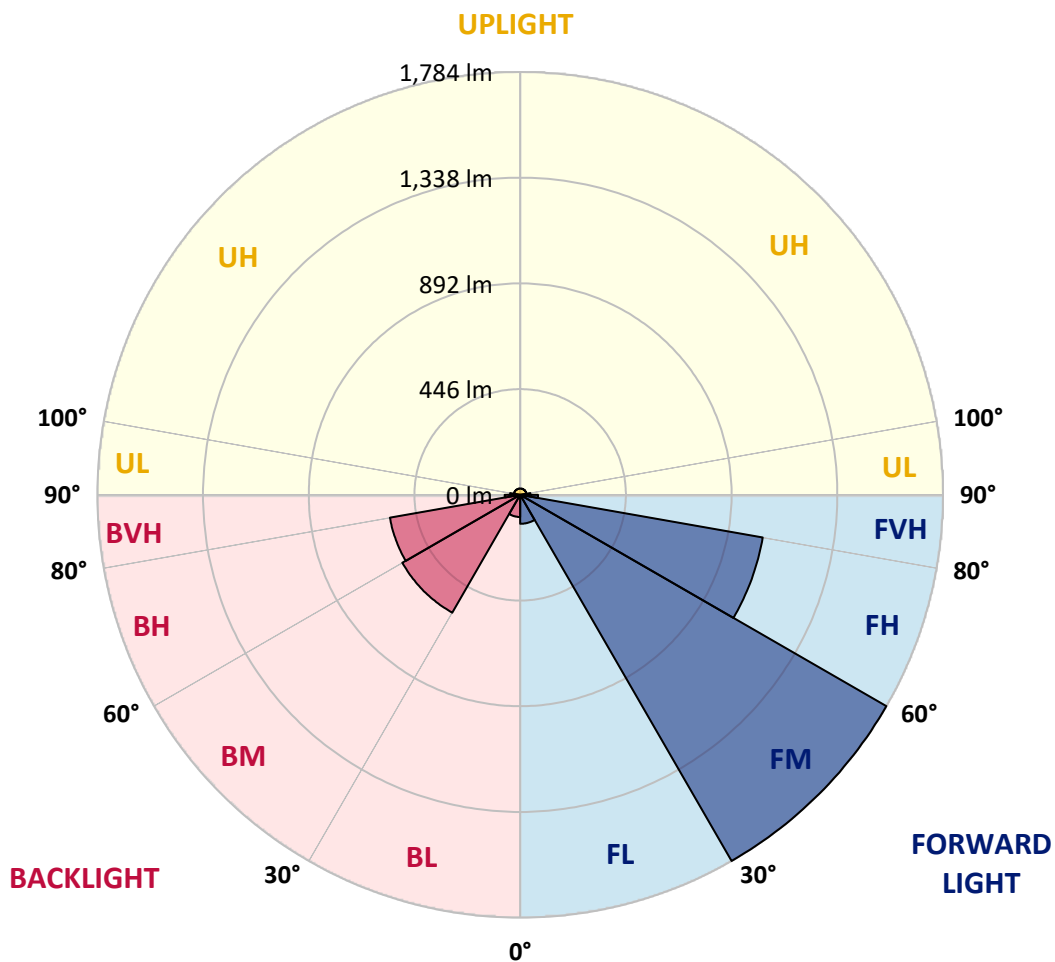
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.2	2.8			
FM	(30°-60°)	1784.5	40.9			
FH	(60°-80°)	1039.5	23.8			G1/1800
FVH	(80°-90°)	75.3	1.7			G1/100
BL	(0°-30°)	93.5	2.1	B0/110		
BM	(30°-60°)	574.5	13.2	B1/1000		
BH	(60°-80°)	557.9	12.8	B2/1000		G2/1000
BVH	(80°-90°)	65.4	1.5			G1/100
UL	(90°-100°)	42.9	1.0		U2/50	
UH	(100°-180°)	26.7	0.6		U2/50	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	5.1	5.1	5.1	5.6	5.1	4.6	4.1	3.1	2.6	1.5	1.5
5°	67.2	67.2	66.7	64.7	20.0	10.2	6.6	4.1	4.1	2.6	1.5
7.5°	75.4	74.9	74.9	72.8	72.3	66.7	33.9	6.6	6.1	3.6	2.0
10°	83.7	81.5	80.5	79.0	79.5	74.9	69.8	32.8	19.0	7.2	5.6
12.5°	155.0	154.0	149.4	125.7	87.3	80.0	78.5	65.7	63.6	54.9	64.1
15°	171.3	168.3	165.2	164.7	156.0	97.5	123.7	161.6	163.2	125.7	136.0
17.5°	200.1	195.0	184.7	177.0	172.4	200.1	184.2	178.5	180.0	154.0	153.4
20°	303.2	302.7	297.6	262.7	197.0	247.2	238.0	204.2	203.2	278.0	271.4
22.5°	357.6	348.9	342.2	330.9	338.6	270.9	289.4	297.6	304.2	319.2	305.2
25°	537.7	493.6	471.5	383.3	403.2	342.7	381.3	348.9	345.8	356.6	384.3
27.5°	620.3	622.9	605.4	574.1	465.9	480.8	425.3	489.0	484.9	493.6	473.5
30°	826.0	812.2	717.3	686.5	602.3	548.0	586.5	550.0	538.2	527.9	523.3
32.5°	1018.4	1017.9	992.3	865.0	758.3	641.3	667.0	611.0	614.7	681.4	697.8
35°	1317.6	1298.0	1144.2	1066.6	906.0	818.9	749.1	794.7	788.6	779.4	786.0
37.5°	1663.3	1638.8	1507.9	1265.7	1098.4	939.4	930.7	897.8	875.2	885.6	892.2
40°	1866.0	1845.5	1731.0	1525.3	1282.2	1149.8	1064.6	1015.9	988.2	1028.7	1027.1
42.5°	2010.2	1992.2	1926.5	1714.2	1541.8	1400.6	1223.7	1153.9	1125.1	1187.2	1163.1
45°	2083.5	2052.2	2044.6	1884.5	1768.5	1705.5	1443.8	1323.2	1287.3	1353.5	1324.7
47.5°	2046.1	2011.7	2041.5	1939.9	1972.8	1970.2	1717.2	1520.2	1496.6	1552.0	1509.0
50°	1872.2	1852.2	1916.3	1930.1	2077.4	2184.6	2021.5	1729.0	1758.8	1732.1	1702.8
52.5°	1585.9	1577.7	1680.3	1795.7	2061.5	2325.2	2301.6	1968.1	2034.8	1915.8	1876.8
55°	1281.7	1283.2	1395.0	1531.5	1895.7	2345.2	2545.3	2253.4	2310.3	2100.9	2046.6
57.5°	935.8	976.9	1104.6	1220.6	1580.8	2213.9	2696.1	2538.7	2585.8	2292.3	2201.6
60°	606.9	621.9	775.7	959.9	1165.7	1815.7	2754.6	2799.8	2836.2	2490.9	2349.3
62.5°	400.7	402.2	465.9	678.2	806.0	1267.2	2612.0	3015.2	3050.1	2643.8	2475.0
64°	319.2	318.6	356.1	520.8	639.8	937.8	2388.8	3065.1	3097.9	2710.0	2522.2
65°	281.7	281.1	308.3	418.7	547.0	749.6	2166.1	3047.1	3078.9	2739.8	2535.1
67.5°	239.1	240.1	250.9	287.9	396.1	451.0	1325.2	2792.0	2818.2	2716.7	2490.4
70°	220.7	221.7	234.5	241.6	312.4	335.0	576.1	2280.6	2310.8	2611.5	2387.8
72.5°	194.5	196.0	212.9	231.4	247.8	278.0	366.8	1569.4	1656.2	2264.6	2249.8
75°	162.6	164.2	180.0	204.2	216.0	226.8	317.6	832.7	940.4	1704.4	2005.1
77.5°	132.9	133.9	147.2	163.7	196.5	175.9	278.0	425.9	451.5	1078.5	1482.8
80°	98.0	99.0	113.3	131.3	152.4	153.4	229.3	306.8	308.3	590.0	800.4
82.5°	67.2	67.7	82.0	92.4	107.7	142.1	183.7	253.0	265.8	350.5	367.9
85°	46.1	46.6	55.4	59.0	67.7	78.5	132.9	198.6	218.1	251.4	220.7
87.5°	22.1	23.1	24.1	25.7	26.7	27.7	57.0	146.2	154.0	167.8	174.4
90°	18.5	18.5	14.3	13.8	15.9	16.4	26.2	124.7	122.1	160.6	173.4
92.5°	18.5	18.5	13.3	12.8	14.3	13.8	19.0	102.6	99.5	158.0	171.3
95°	15.9	16.4	10.7	10.2	12.3	11.3	14.8	60.0	63.6	111.3	126.7
97.5°	13.3	13.3	8.2	8.2	8.7	8.2	9.7	22.1	24.7	47.2	56.0
100°	9.7	10.2	5.1	5.6	5.6	5.1	5.1	9.2	10.2	12.8	12.3
102.5°	8.2	9.2	3.6	4.1	3.1	3.1	2.6	4.1	4.1	6.6	9.7
105°	6.1	7.2	2.6	2.6	2.0	2.0	1.0	3.1	3.1	5.6	10.2
107.5°	3.6	4.1	1.5	1.5	1.5	2.0	1.0	2.0	2.6	4.6	8.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	1.5	1.5	0.5	1.0	0.5	1.5	1.0	2.0	2.6	2.0	4.6
112.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.0	2.6
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.5	1.0	2.6
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	2.6
120°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	2.6
122.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	2.0
125°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0
127.5°	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5
130°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5
132.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
135°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
137.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.5	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5
147.5°	2.6	2.6	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
150°	2.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
152.5°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	1.5	2.0	2.0	2.6	2.6	3.1	3.1	3.1	3.1	2.6	2.6
5°	1.5	2.0	2.0	2.6	3.1	4.1	4.6	5.6	5.6	6.1	6.1
7.5°	2.0	2.0	2.6	3.1	4.6	7.7	23.1	73.3	75.9	82.6	83.2
10°	5.1	5.6	5.6	6.1	14.8	75.4	84.7	88.3	92.9	93.4	92.9
12.5°	67.7	65.2	62.6	19.5	74.4	90.8	93.4	98.5	101.1	108.7	108.7
15°	137.0	137.0	132.4	145.7	131.9	101.1	108.7	170.8	177.0	181.6	179.0
17.5°	155.5	155.5	152.4	184.7	198.6	160.1	174.9	188.3	192.4	193.4	192.9
20°	279.6	276.5	249.4	226.8	207.2	254.0	214.4	194.0	230.9	267.3	269.3
22.5°	304.2	300.1	293.5	297.6	272.4	261.7	245.7	258.1	266.3	267.8	268.3
25°	383.8	381.3	331.4	317.1	342.2	292.0	295.5	253.0	257.6	263.2	262.7
27.5°	475.6	467.4	442.2	379.6	358.1	344.2	279.1	267.3	295.5	297.1	296.0
30°	527.9	504.8	458.7	468.9	386.9	329.4	277.0	280.1	267.8	268.3	269.3
32.5°	703.9	676.2	616.7	545.3	413.0	309.9	268.3	251.4	271.4	275.0	276.5
35°	769.6	745.0	693.7	645.5	420.7	295.5	238.6	246.2	246.7	247.8	248.9
37.5°	860.9	826.5	784.0	676.2	418.2	260.1	232.4	233.4	249.9	253.0	254.5
40°	973.2	929.7	882.0	690.1	377.1	246.7	227.3	235.0	240.6	239.1	240.1
42.5°	1106.1	1047.2	980.5	673.6	319.7	240.6	227.3	232.4	233.4	228.8	228.8
45°	1259.0	1193.4	1064.1	655.2	275.5	242.6	232.4	229.3	224.2	217.6	216.0
47.5°	1426.3	1349.9	1141.0	619.3	244.7	241.1	235.5	224.2	218.6	212.9	212.9
50°	1605.4	1524.8	1206.7	563.9	230.4	238.6	233.9	227.3	221.2	210.8	210.3
52.5°	1776.8	1711.1	1288.3	488.5	216.6	240.6	245.7	230.9	222.2	208.3	208.3
55°	1942.5	1904.5	1361.6	428.9	210.8	234.5	252.5	239.6	221.2	210.3	210.8
57.5°	2107.7	2103.1	1445.8	388.9	204.2	230.9	261.2	246.2	230.9	220.1	220.1
60°	2295.4	2316.5	1554.1	344.2	203.2	226.8	264.7	257.6	239.6	237.5	238.0
62.5°	2457.0	2512.0	1636.6	292.5	196.5	223.7	270.9	268.3	250.4	248.4	251.4
64°	2536.6	2597.7	1668.9	260.1	195.0	225.8	273.4	279.1	262.2	264.2	264.2
65°	2565.4	2625.3	1678.3	238.6	193.4	226.8	273.9	282.7	264.7	264.2	264.2
67.5°	2566.4	2612.5	1645.9	204.7	186.8	226.3	276.5	292.5	275.0	286.8	282.2
70°	2505.8	2445.8	1520.7	181.1	185.8	226.8	274.5	287.3	271.9	298.6	296.0
72.5°	2339.1	2123.5	1208.3	159.6	187.8	223.7	263.7	273.9	262.7	301.7	299.1
75°	1976.3	1655.1	743.9	149.4	185.3	212.9	250.9	249.4	243.7	268.3	266.8
77.5°	1358.1	1089.2	356.1	145.7	181.6	198.0	222.7	220.1	213.9	224.2	221.2
80°	702.9	575.6	214.9	133.4	168.8	171.9	181.6	183.7	177.0	179.5	175.4
82.5°	332.5	303.7	180.6	121.6	144.6	127.3	141.1	147.7	136.0	136.5	122.1
85°	207.8	211.9	148.7	94.4	97.5	77.4	98.0	105.2	90.3	76.9	73.3
87.5°	172.4	180.0	109.8	52.9	45.1	39.5	55.4	58.0	41.5	34.9	32.3
90°	178.0	183.7	108.2	42.0	35.9	29.8	40.5	35.9	25.7	22.6	20.6
92.5°	176.5	179.0	107.2	40.5	33.9	27.2	34.4	27.7	20.0	17.5	15.9
95°	132.9	142.6	86.7	39.5	29.8	22.1	25.7	21.6	13.8	12.3	11.3
97.5°	54.9	64.7	51.4	37.4	23.1	16.4	17.0	14.8	8.2	7.2	6.6
100°	10.7	17.0	27.2	27.2	11.3	8.7	8.7	8.2	4.1	3.6	3.1
102.5°	10.7	10.2	12.3	14.8	5.1	2.6	3.1	4.1	2.6	3.6	3.6
105°	11.3	10.7	6.6	4.1	3.1	1.5	1.0	1.0	2.0	4.1	4.6
107.5°	10.2	10.2	4.6	3.1	2.6	2.0	0.5	0.5	1.5	4.6	5.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.1	5.6	3.6	2.6	2.6	2.0	0.5	0.0	1.5	5.1	5.6
112.5°	3.1	3.1	3.1	2.0	1.5	1.5	0.5	0.0	1.5	5.6	6.1
115°	3.1	3.1	2.6	2.0	1.5	1.0	0.0	0.0	1.5	6.1	6.6
117.5°	3.1	3.1	2.6	1.5	1.0	0.5	0.0	0.0	1.5	6.1	6.6
120°	3.1	3.1	2.6	1.5	1.0	0.5	0.0	0.0	1.5	5.6	6.1
122.5°	3.1	3.1	2.6	1.5	1.0	0.5	0.0	0.0	1.5	4.6	5.1
125°	2.6	2.6	2.0	1.5	1.0	0.5	0.0	0.0	1.0	4.1	4.1
127.5°	2.0	2.6	2.0	1.5	1.0	0.5	0.0	0.0	1.0	3.1	3.6
130°	2.0	2.0	1.5	1.5	1.0	0.5	0.0	0.0	0.5	2.6	3.1
132.5°	1.5	1.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	1.0	1.5
135°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5
137.5°	0.5	0.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
140°	0.5	0.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
142.5°	0.5	0.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
145°	0.5	1.0	1.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
147.5°	1.0	1.0	1.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
150°	1.0	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.5	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)