

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: P417091

Luminaire Tested: **LXF.LXT-PA1-90-727-U-T4W-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P417091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-90-727-U-T4W-A
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: 7834.9 lumens
Efficiency: N/A
Efficacy: 83.4 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: B2 - U3 - G4

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

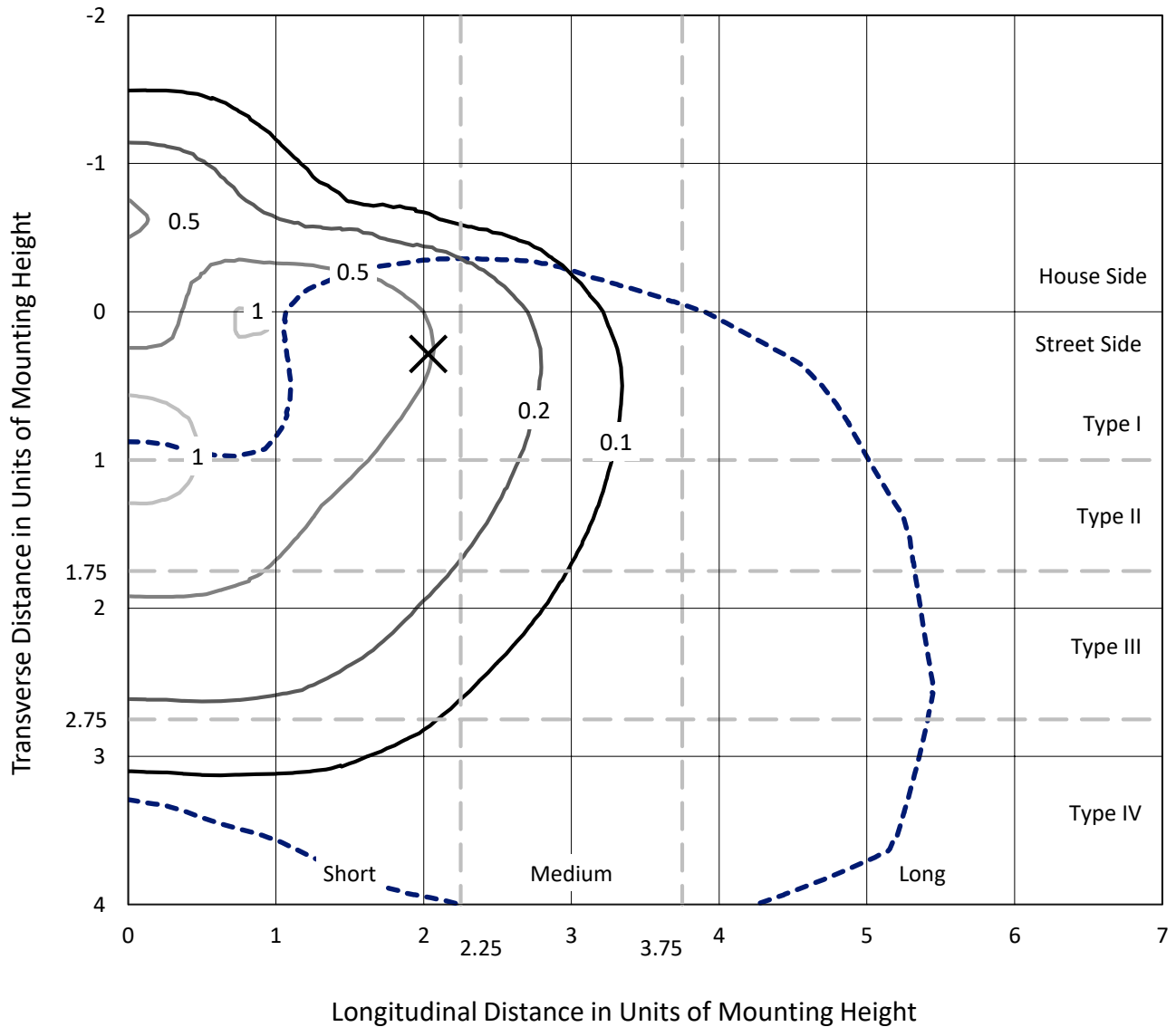


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

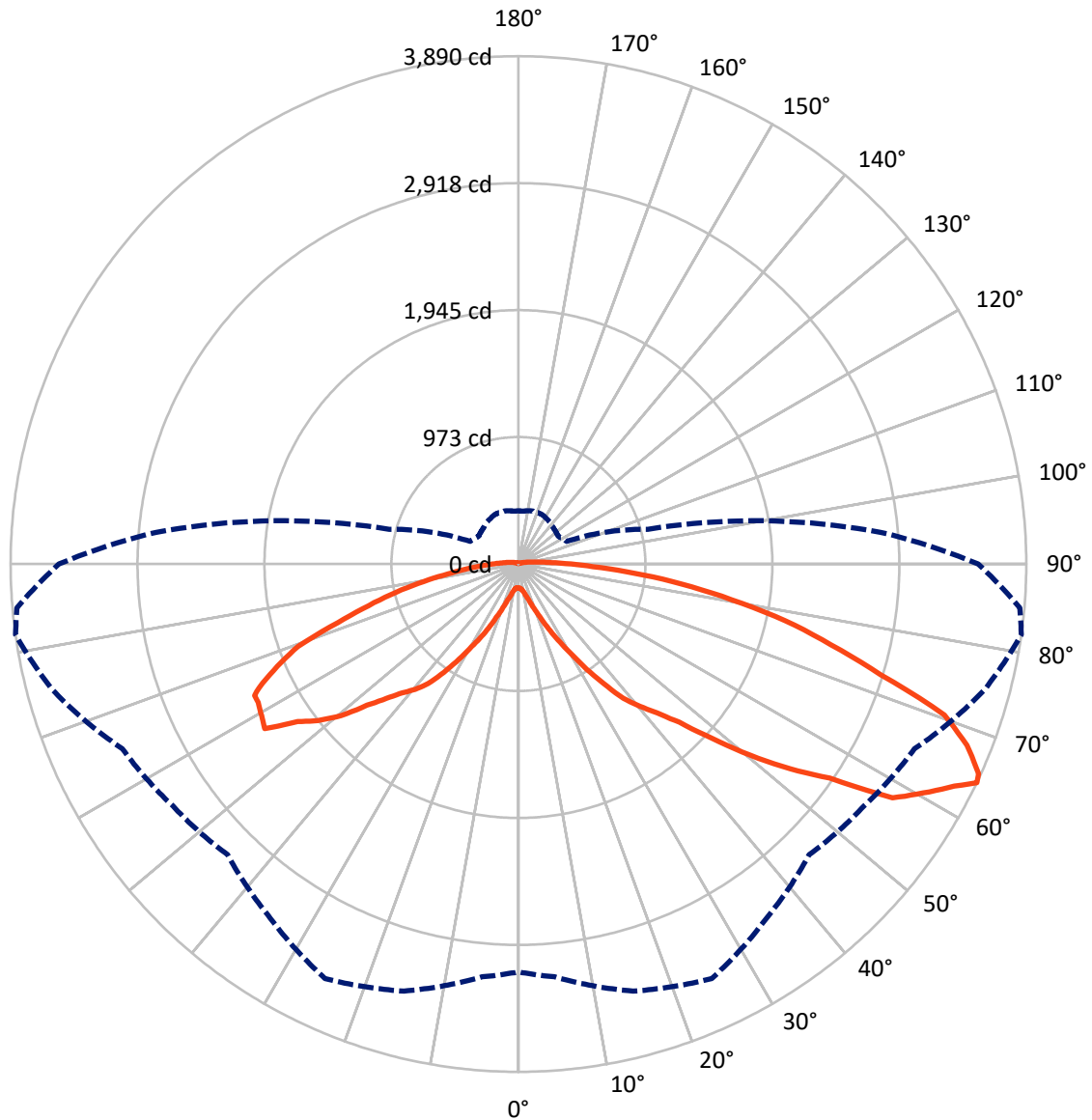


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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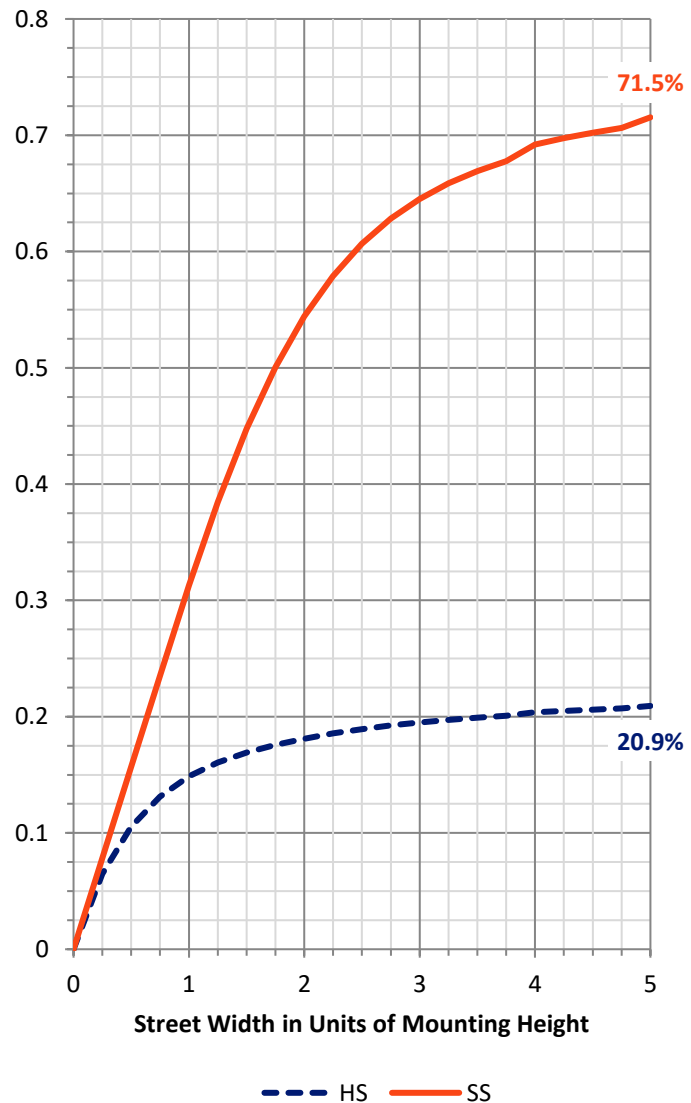
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.4	129.0	1851.4
	% Fixture	22.0	1.6	23.6
Street Side	Lumens	5814.5	169.0	5983.5
	% Fixture	74.2	2.2	76.4
Total	Lumens	7536.9	298.1	7834.9
	% Fixture	96.2	3.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.2
10°-20°	80.6	1.0
20°-30°	232.3	3.0
30°-40°	533.2	6.8
40°-50°	936.4	12.0
50°-60°	1504.1	19.2
60°-70°	2019.1	25.8
70°-80°	1543.7	19.7
80°-90°	668.6	8.5
90°-100°	187.8	2.4
100°-110°	57.0	0.7
110°-120°	25.0	0.3
120°-130°	14.3	0.2
130°-140°	8.7	0.1
140°-150°	3.9	0.0
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7536.9	96.2
0°-180°	7834.9	100.0



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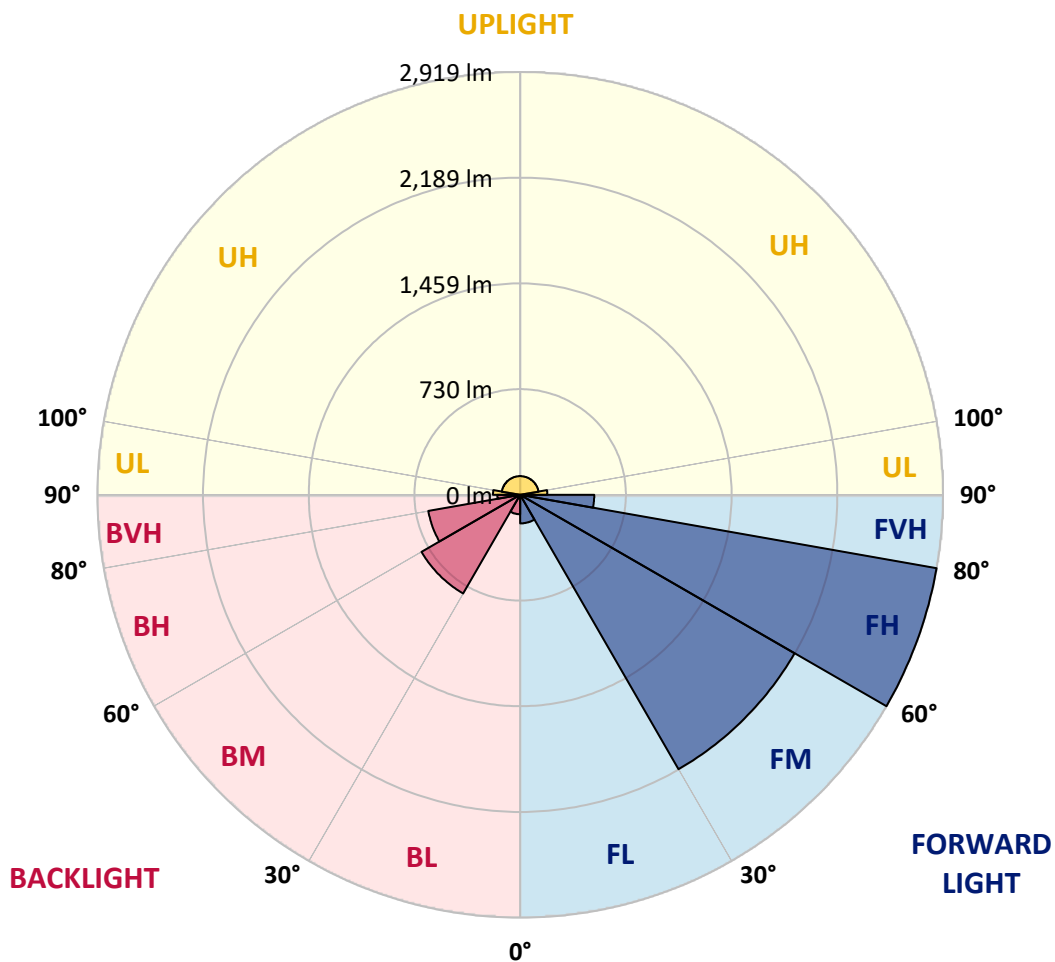
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.3	2.5			
FM	(30°-60°)	2187.1	27.9			
FH	(60°-80°)	2919.0	37.3			G2/5000
FVH	(80°-90°)	511.1	6.5			G4/750
BL	(0°-30°)	134.4	1.7	B1/500		
BM	(30°-60°)	786.6	10.0	B1/1000		
BH	(60°-80°)	643.8	8.2	B2/1000		G2/1000
BVH	(80°-90°)	157.5	2.0			G2/225
UL	(90°-100°)	187.8	2.4		U3/500	
UH	(100°-180°)	129.0	1.6		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1
2.5°	196.6	195.7	195.7	196.6	196.6	194.8	191.2	188.5	185.8	184.9	184.0
5°	214.6	213.7	212.8	213.7	211.0	208.3	202.9	197.5	193.9	190.3	189.4
7.5°	239.0	238.1	237.2	235.4	231.8	226.3	218.2	211.0	204.7	200.2	198.4
10°	270.5	266.9	266.0	262.4	256.1	247.1	238.1	229.0	221.8	215.5	212.8
12.5°	313.8	313.8	306.6	298.5	287.7	274.1	262.4	255.2	248.0	244.4	239.0
15°	367.0	365.2	358.0	344.5	326.4	311.1	298.5	289.5	285.0	278.6	275.9
17.5°	425.6	422.0	415.7	395.0	373.3	357.1	342.7	333.6	330.9	325.5	324.6
20°	502.3	496.9	481.5	456.3	426.5	408.5	395.0	385.0	384.1	386.0	385.0
22.5°	593.4	589.7	570.8	524.8	491.5	465.3	447.3	449.1	460.8	466.2	459.0
25°	702.5	706.1	674.5	613.2	569.0	524.8	517.6	527.5	553.7	568.1	569.0
27.5°	831.4	830.5	789.0	721.4	652.9	603.3	591.6	620.4	657.4	678.1	678.1
30°	975.7	988.3	929.7	841.3	745.8	687.1	678.1	722.3	761.1	798.1	808.9
32.5°	1167.8	1165.1	1089.3	982.9	855.8	772.8	765.6	821.5	909.0	960.4	960.4
35°	1406.7	1396.8	1291.3	1131.7	961.3	868.4	869.3	946.8	1062.3	1125.4	1131.7
37.5°	1612.3	1620.5	1514.0	1320.2	1097.4	977.5	988.3	1092.9	1231.8	1305.7	1331.0
40°	1832.4	1835.1	1717.8	1506.8	1244.4	1093.8	1120.0	1240.8	1372.5	1433.8	1458.1
42.5°	2026.2	2042.5	1925.2	1694.4	1393.2	1236.3	1248.9	1354.4	1485.2	1558.2	1592.5
45°	2159.7	2168.7	2096.6	1866.6	1554.6	1381.5	1379.7	1478.0	1646.6	1727.8	1782.8
47.5°	2341.0	2365.3	2261.6	2039.8	1720.5	1529.4	1514.0	1640.3	1862.1	1993.8	2040.7
50°	2553.8	2590.7	2517.7	2249.9	1909.9	1703.4	1706.1	1856.7	2129.9	2302.2	2350.9
52.5°	2765.7	2780.1	2731.4	2502.4	2129.9	1906.3	1928.0	2116.4	2430.2	2607.0	2636.7
55°	2879.3	2900.0	2914.5	2733.2	2394.2	2147.1	2185.0	2412.2	2686.3	2893.7	2961.4
57.5°	2987.5	3016.4	3054.2	2930.7	2656.6	2444.7	2481.6	2683.6	3084.0	3379.8	3431.2
60°	3170.6	3195.8	3268.9	3167.9	2897.3	2728.7	2767.5	3051.5	3358.1	3561.9	3567.3
62.5°	3167.9	3207.5	3384.3	3409.5	3155.2	3001.9	3096.6	3249.9	3492.5	3748.6	3743.2
64°	3124.6	3174.2	3387.0	3504.2	3312.1	3149.8	3231.9	3347.3	3700.8	3890.2	3855.9
65°	3093.9	3148.9	3378.9	3528.6	3397.8	3233.7	3295.0	3428.5	3761.2	3873.9	3827.0
67.5°	2925.3	2986.6	3291.4	3525.9	3486.2	3365.4	3385.2	3509.6	3661.1	3705.3	3621.4
70°	2623.2	2655.7	3001.9	3378.0	3398.7	3283.3	3337.4	3401.4	3484.4	3462.7	3352.7
72.5°	2070.4	2137.2	2487.0	3022.7	3140.8	3057.9	3078.6	3110.2	3026.3	2901.8	2771.1
75°	1474.4	1533.9	1860.3	2384.2	2735.0	2701.7	2730.5	2680.0	2587.1	2473.5	2345.5
77.5°	1025.3	1044.2	1313.9	1799.0	2185.9	2287.8	2350.0	2278.7	2226.4	2090.3	1987.5
80°	663.7	695.3	864.8	1303.0	1732.3	1940.6	2040.7	1994.7	1872.9	1655.6	1538.4
82.5°	411.2	436.4	569.9	925.2	1373.4	1662.8	1759.3	1696.2	1501.4	1258.9	1141.6
85°	235.4	240.8	333.6	602.4	1003.7	1321.1	1450.0	1349.0	1122.7	888.2	785.4
87.5°	135.3	139.8	199.3	368.8	694.4	995.5	1118.2	971.2	753.9	570.8	503.2
90°	86.6	92.0	129.0	240.8	447.3	711.5	801.7	666.4	505.0	361.6	318.3
92.5°	59.5	62.2	86.6	149.7	288.6	469.8	535.6	445.5	314.7	230.8	204.7
95°	43.3	45.1	61.3	101.9	185.8	294.9	330.9	282.2	206.5	153.3	137.1
97.5°	35.2	36.1	47.8	74.8	128.0	187.6	198.4	175.8	137.1	109.1	102.8
100°	29.8	30.7	39.7	57.7	91.1	122.6	125.3	118.1	96.5	81.2	77.6
102.5°	27.1	27.1	33.4	46.9	68.5	87.5	87.5	81.2	66.7	59.5	59.5
105°	24.3	24.3	28.9	38.8	54.1	67.6	66.7	59.5	50.5	45.1	46.0
107.5°	21.6	21.6	25.2	31.6	44.2	53.2	51.4	44.2	38.8	35.2	36.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
110°	19.8	19.8	22.5	27.1	37.0	44.2	41.5	34.3	28.9	28.9	29.8
112.5°	18.0	18.0	19.8	24.3	31.6	36.1	33.4	27.1	23.4	23.4	24.3
115°	16.2	16.2	18.0	21.6	28.0	30.7	28.0	21.6	18.9	19.8	21.6
117.5°	15.3	15.3	17.1	19.8	24.3	26.2	23.4	18.0	16.2	18.0	18.9
120°	14.4	14.4	16.2	18.9	22.5	23.4	19.8	16.2	14.4	16.2	17.1
122.5°	14.4	14.4	15.3	18.0	20.7	20.7	18.0	14.4	12.6	14.4	15.3
125°	14.4	14.4	15.3	17.1	18.9	18.9	16.2	12.6	11.7	13.5	13.5
127.5°	15.3	15.3	16.2	17.1	18.0	17.1	14.4	11.7	10.8	12.6	12.6
130°	15.3	15.3	15.3	16.2	16.2	15.3	12.6	10.8	10.8	11.7	12.6
132.5°	15.3	15.3	15.3	15.3	15.3	13.5	11.7	9.9	10.8	11.7	12.6
135°	14.4	14.4	14.4	14.4	13.5	11.7	9.9	8.1	9.9	10.8	10.8
137.5°	12.6	13.5	12.6	12.6	12.6	10.8	8.1	7.2	8.1	9.9	9.9
140°	11.7	11.7	11.7	11.7	10.8	9.0	7.2	5.4	6.3	8.1	8.1
142.5°	10.8	10.8	10.8	9.9	9.9	8.1	5.4	4.5	5.4	6.3	6.3
145°	9.0	9.0	9.0	9.0	8.1	6.3	4.5	3.6	4.5	5.4	5.4
147.5°	7.2	7.2	7.2	7.2	6.3	5.4	3.6	3.6	4.5	4.5	4.5
150°	5.4	6.3	6.3	6.3	5.4	4.5	2.7	2.7	3.6	4.5	4.5
152.5°	4.5	4.5	4.5	5.4	4.5	2.7	1.8	2.7	3.6	3.6	3.6
155°	2.7	3.6	3.6	3.6	3.6	2.7	1.8	2.7	2.7	3.6	3.6
157.5°	1.8	1.8	2.7	2.7	2.7	2.7	1.8	1.8	2.7	2.7	2.7
160°	0.9	0.9	1.8	2.7	2.7	2.7	1.8	1.8	2.7	2.7	2.7
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°	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1	183.1
2.5°	183.1	182.2	180.4	178.5	177.6	177.6	175.8	174.9	172.2	172.2	171.3
5°	186.7	184.9	181.3	177.6	174.9	174.0	172.2	169.5	167.7	166.8	166.8
7.5°	194.8	192.1	184.9	180.4	176.7	174.0	172.2	169.5	167.7	166.8	166.8
10°	208.3	203.8	195.7	187.6	182.2	178.5	176.7	175.8	174.9	174.0	174.0
12.5°	234.5	228.1	214.6	204.7	193.9	188.5	186.7	188.5	193.0	194.8	195.7
15°	270.5	262.4	246.2	228.1	211.9	202.9	206.5	215.5	223.6	227.2	226.3
17.5°	315.6	303.0	283.2	258.8	236.3	231.8	235.4	245.3	257.0	262.4	261.5
20°	373.3	363.4	333.6	294.0	268.7	261.5	264.2	276.8	294.0	299.4	301.2
22.5°	452.7	438.3	392.3	337.3	303.9	290.4	293.1	309.3	332.7	345.4	348.1
25°	555.5	540.2	472.5	388.7	336.4	315.6	326.4	348.1	386.0	405.8	404.0
27.5°	674.5	648.4	560.0	451.8	374.2	341.8	358.0	393.2	432.8	458.1	456.3
30°	784.5	762.0	643.9	509.5	406.7	367.0	384.1	429.2	475.2	505.9	507.7
32.5°	949.5	908.1	742.1	559.1	432.8	387.8	404.0	459.0	512.2	549.2	548.3
35°	1120.0	1073.1	850.4	616.8	455.4	401.3	418.4	480.6	539.2	583.4	584.3
37.5°	1299.4	1233.6	946.8	654.7	473.4	409.4	426.5	496.0	570.8	621.3	623.1
40°	1420.3	1345.4	1005.5	674.5	478.8	414.8	433.7	506.8	576.2	613.2	616.8
42.5°	1555.5	1450.0	1036.1	658.3	472.5	413.9	435.5	498.7	552.8	578.9	581.6
45°	1742.2	1600.6	1069.5	633.0	455.4	411.2	428.3	477.0	512.2	522.1	522.1
47.5°	1984.8	1783.7	1125.4	606.0	437.4	403.1	415.7	447.3	460.8	459.0	454.5
50°	2276.0	2043.4	1193.0	582.5	420.2	393.2	401.3	419.3	423.8	418.4	415.7
52.5°	2566.4	2252.6	1239.9	561.8	409.4	384.1	389.6	403.1	403.1	386.9	384.1
55°	2832.4	2442.0	1227.3	522.1	401.3	379.6	385.0	395.0	386.9	367.9	364.3
57.5°	3262.6	2769.3	1259.8	483.3	389.6	378.7	386.0	392.3	380.5	362.5	358.9
60°	3339.2	2755.8	1183.1	459.0	381.4	381.4	389.6	396.8	388.7	372.4	371.5
62.5°	3445.6	2768.4	1066.8	423.8	376.0	383.2	397.7	408.5	407.6	395.9	394.1
64°	3520.5	2786.4	1025.3	407.6	371.5	383.2	404.0	420.2	420.2	406.7	406.7
65°	3446.5	2717.9	994.6	399.5	367.0	383.2	407.6	427.4	425.6	414.8	413.0
67.5°	3222.9	2495.2	864.8	381.4	357.1	383.2	417.5	439.2	441.9	432.8	429.2
70°	2949.6	2251.7	752.1	360.7	347.2	378.7	417.5	446.4	450.9	441.0	438.3
72.5°	2404.1	1810.7	620.4	338.2	332.7	367.9	412.1	442.8	447.3	435.5	431.9
75°	2015.4	1478.9	514.0	316.5	317.4	354.4	398.6	426.5	426.5	413.9	408.5
77.5°	1660.1	1193.9	425.6	295.8	299.4	337.3	374.2	392.3	386.9	375.1	367.9
80°	1243.5	901.8	350.8	273.2	276.8	309.3	340.0	352.6	347.2	332.7	330.9
82.5°	909.9	648.4	299.4	249.8	252.5	278.6	301.2	312.0	316.5	304.8	301.2
85°	597.9	457.2	257.0	226.3	228.1	248.0	262.4	271.4	281.3	277.7	275.9
87.5°	390.5	316.5	217.3	199.3	201.1	217.3	227.2	236.3	256.1	258.8	255.2
90°	262.4	221.8	179.4	172.2	174.9	188.5	193.9	202.9	224.5	228.1	228.1
92.5°	175.8	158.7	145.2	145.2	149.7	161.4	162.3	165.0	183.1	187.6	185.8
95°	123.5	118.1	117.2	119.0	124.4	133.5	129.0	127.1	138.9	139.8	138.0
97.5°	94.7	92.9	94.7	97.4	100.1	109.1	104.6	100.1	105.5	103.7	105.5
100°	75.7	74.8	77.6	77.6	80.3	88.4	84.8	82.1	83.0	79.4	79.4
102.5°	60.4	60.4	63.1	64.0	65.8	72.1	71.2	68.5	66.7	63.1	64.0
105°	46.9	47.8	51.4	52.3	55.0	60.4	59.5	55.9	54.1	49.6	50.5
107.5°	37.9	39.7	42.4	43.3	46.0	50.5	48.7	45.1	42.4	40.6	40.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.6	32.5	35.2	36.1	38.8	42.4	41.5	37.0	33.4	32.5	33.4
112.5°	26.2	28.0	29.8	30.7	33.4	36.1	33.4	29.8	27.1	28.0	28.0
115°	22.5	23.4	25.2	26.2	28.0	30.7	28.0	24.3	22.5	23.4	24.3
117.5°	20.7	21.6	22.5	22.5	24.3	26.2	23.4	20.7	19.8	20.7	21.6
120°	18.0	18.9	19.8	20.7	21.6	22.5	20.7	18.0	17.1	18.9	18.9
122.5°	16.2	17.1	17.1	18.0	18.9	19.8	18.0	16.2	15.3	16.2	17.1
125°	14.4	15.3	16.2	16.2	17.1	17.1	16.2	14.4	14.4	15.3	15.3
127.5°	13.5	14.4	14.4	15.3	15.3	15.3	14.4	12.6	13.5	14.4	14.4
130°	13.5	13.5	13.5	13.5	13.5	13.5	12.6	11.7	12.6	13.5	13.5
132.5°	12.6	12.6	12.6	12.6	12.6	11.7	10.8	10.8	11.7	12.6	12.6
135°	11.7	11.7	10.8	10.8	10.8	10.8	9.9	9.9	9.9	10.8	10.8
137.5°	9.9	9.9	9.0	9.0	9.0	9.0	8.1	8.1	9.0	9.9	9.9
140°	8.1	8.1	7.2	7.2	7.2	7.2	7.2	7.2	8.1	8.1	9.0
142.5°	6.3	6.3	6.3	5.4	5.4	6.3	6.3	6.3	7.2	7.2	7.2
145°	5.4	5.4	5.4	4.5	4.5	5.4	5.4	5.4	6.3	6.3	6.3
147.5°	4.5	4.5	4.5	3.6	2.7	4.5	4.5	4.5	5.4	4.5	4.5
150°	4.5	4.5	3.6	2.7	2.7	2.7	3.6	3.6	3.6	3.6	3.6
152.5°	3.6	3.6	3.6	2.7	1.8	1.8	2.7	3.6	2.7	2.7	2.7
155°	3.6	3.6	2.7	2.7	1.8	0.9	1.8	2.7	1.8	1.8	1.8
157.5°	2.7	2.7	2.7	1.8	0.9	0.9	1.8	1.8	0.9	0.9	0.9
160°	2.7	2.7	1.8	1.8	0.9	0.9	1.8	1.8	0.9	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)