

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: P417168

Luminaire Tested: **LXF.LXT-PA1-90-740-U-T2R-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P417168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-90-740-U-T2R-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9108 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

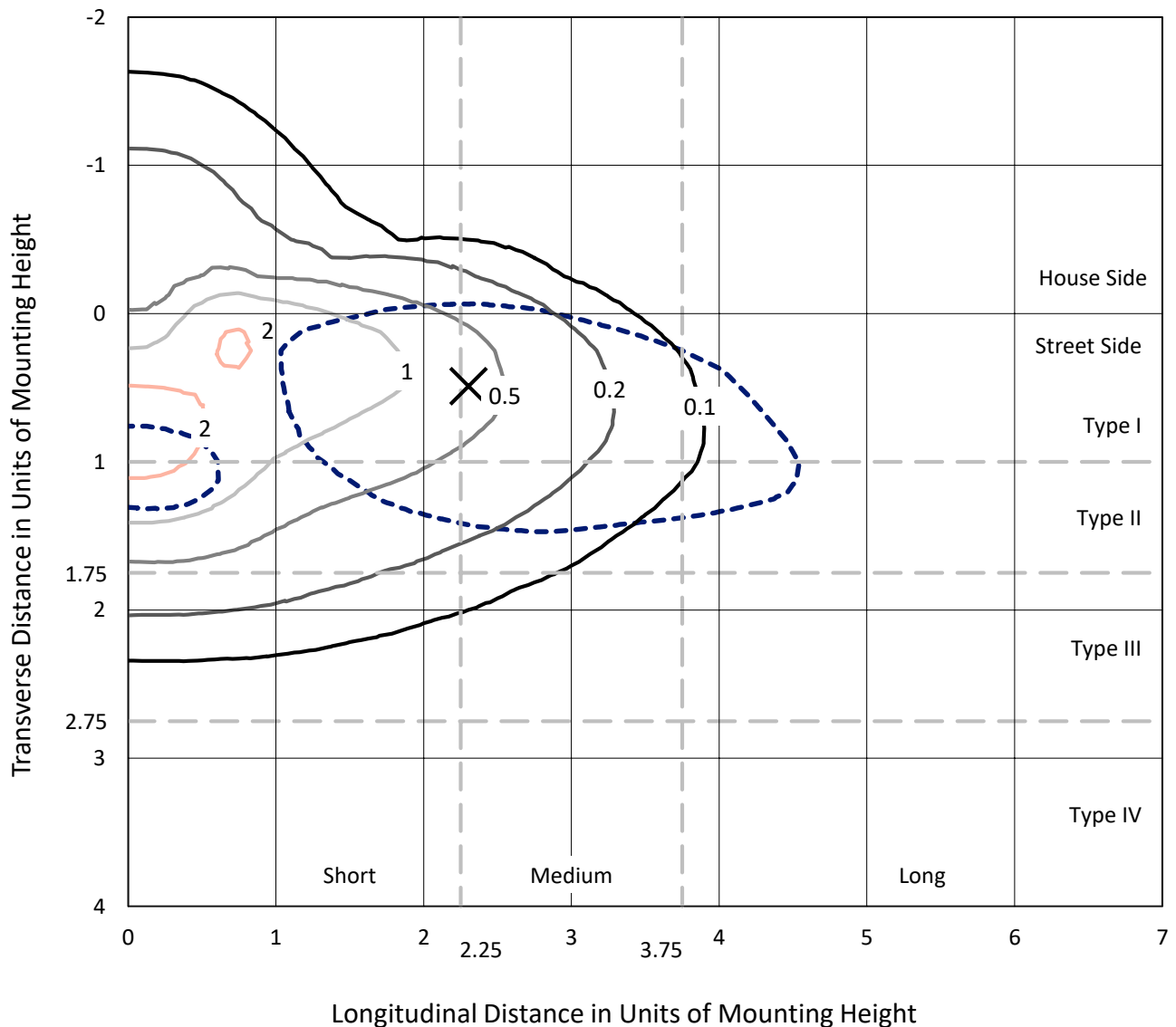
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

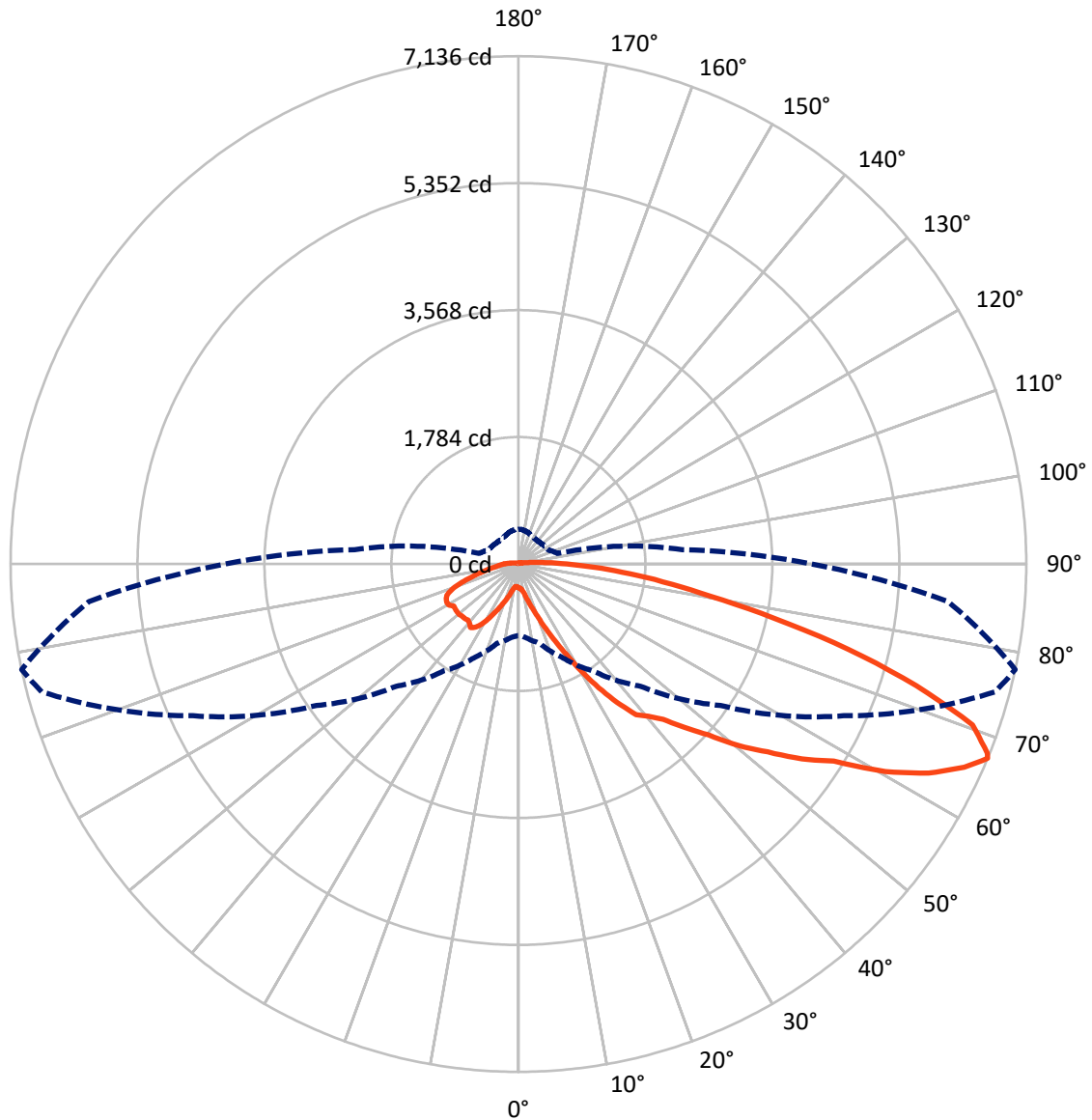
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.0	137.8	1822.8
	% Fixture	18.5	1.5	20.0
Street Side	Lumens	7138.4	146.8	7285.2
	% Fixture	78.4	1.6	80.0
Total	Lumens	8823.4	284.6	9108.0
	% Fixture	96.9	3.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.4
10°-20°	141.6	1.6
20°-30°	425.0	4.7
30°-40°	972.8	10.7
40°-50°	1553.7	17.1
50°-60°	1914.9	21.0
60°-70°	1995.8	21.9
70°-80°	1294.1	14.2
80°-90°	492.0	5.4
90°-100°	152.0	1.7
100°-110°	58.4	0.6
110°-120°	31.5	0.3
120°-130°	20.9	0.2
130°-140°	13.7	0.2
140°-150°	6.1	0.1
150°-160°	1.9	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8823.4	96.9
0°-180°	9108.0	100.0

Coefficient of Utilization



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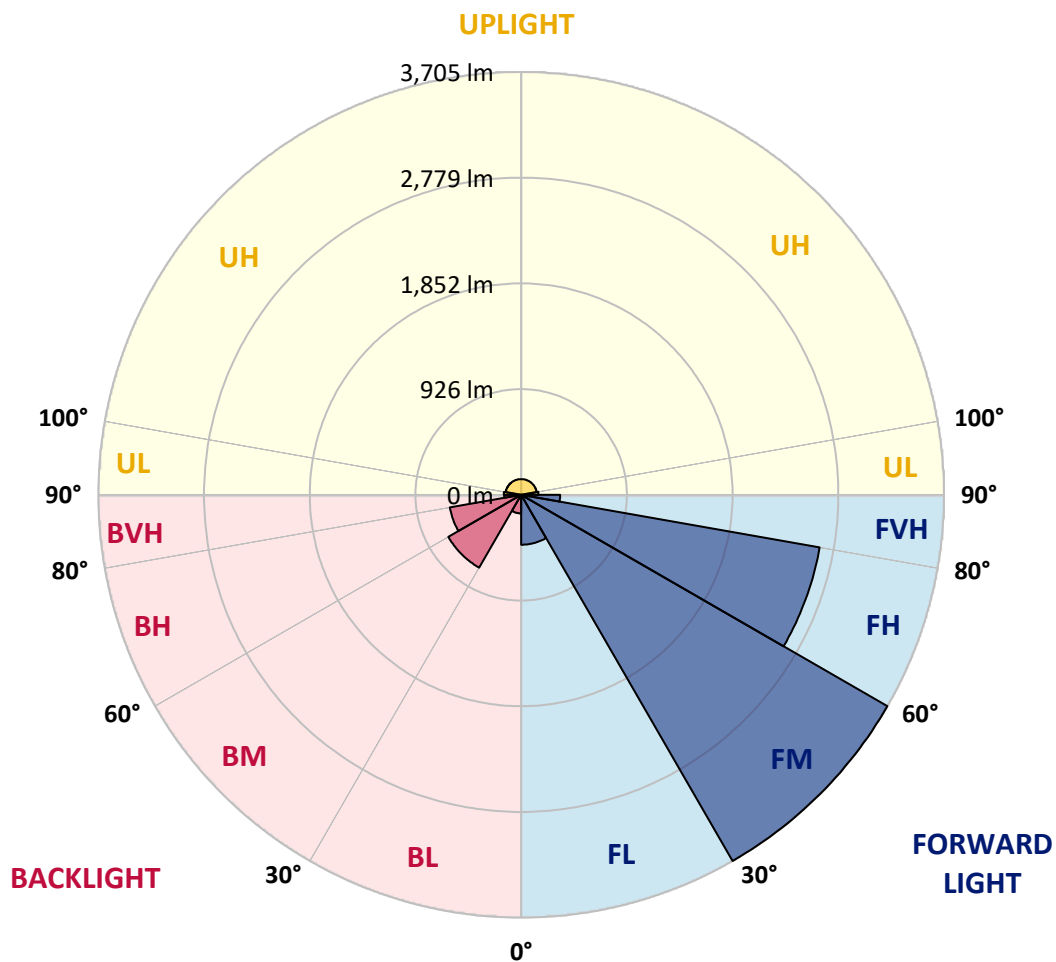
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.3	4.8			
FM (30°-60°)	3704.7	40.7			
FH (60°-80°)	2655.1	29.2			G2/5000
FVH (80°-90°)	341.3	3.7			G3/500
BL (0°-30°)	162.8	1.8	B1/500		
BM (30°-60°)	736.7	8.1	B1/1000		
BH (60°-80°)	634.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	150.7	1.7			G2/225
UL (90°-100°)	152.0	1.7		U3/500	
UH (100°-180°)	137.8	1.5		U3/500	

BUG Rating: B2-U3-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0
2.5°	375.2	374.1	373.0	370.9	366.5	362.2	355.8	347.1	340.7	339.6	333.1
5°	422.6	419.4	419.4	414.0	405.4	396.7	383.8	368.7	356.8	350.4	340.7
7.5°	480.8	474.3	476.5	467.9	456.0	440.9	420.4	400.0	377.3	370.9	356.8
10°	550.9	546.6	542.3	531.5	517.5	493.8	474.3	444.2	414.0	405.4	383.8
12.5°	636.1	637.1	624.2	612.3	588.6	564.9	541.2	512.1	478.7	469.0	440.9
15°	755.7	754.6	740.6	713.7	684.6	658.7	639.3	608.0	575.7	564.9	522.9
17.5°	895.9	892.6	881.9	834.4	805.3	784.8	756.8	737.4	691.0	679.2	627.4
20°	1100.7	1081.3	1056.5	992.9	949.8	923.9	901.3	876.5	826.9	806.4	744.9
22.5°	1328.2	1337.9	1292.6	1194.5	1122.3	1074.8	1051.1	1038.2	1000.4	986.4	893.7
25°	1610.6	1610.6	1539.5	1431.7	1337.9	1249.5	1244.1	1259.2	1208.5	1198.8	1100.7
27.5°	1908.2	1920.0	1826.2	1710.9	1568.6	1465.1	1459.7	1472.6	1468.3	1440.3	1300.1
30°	2247.8	2237.0	2131.3	1991.2	1802.5	1680.7	1665.6	1759.4	1767.0	1747.5	1594.5
32.5°	2643.4	2634.8	2502.2	2285.5	2052.6	1912.5	1922.2	2054.8	2106.5	2073.1	1894.2
35°	3124.2	3135.0	2926.9	2621.9	2314.6	2152.9	2163.7	2329.7	2426.7	2385.8	2184.2
37.5°	3618.0	3621.2	3430.4	3017.5	2596.0	2366.4	2392.2	2594.9	2720.0	2686.5	2409.5
40°	3930.6	3963.0	3779.7	3387.3	2892.5	2579.8	2601.4	2801.9	2875.2	2812.7	2487.1
42.5°	4204.5	4229.3	4042.7	3621.2	3117.8	2770.6	2763.1	2915.1	3020.7	2981.9	2646.7
45°	4339.2	4387.7	4219.6	3784.0	3276.2	2919.4	2861.2	3088.7	3323.7	3275.2	2905.4
47.5°	4241.1	4300.4	4229.3	3869.2	3347.4	3013.2	3026.1	3338.8	3642.8	3588.9	3187.8
50°	3920.9	3992.1	4015.8	3805.6	3365.7	3059.6	3197.5	3618.0	4025.5	4014.7	3535.0
52.5°	3535.0	3572.7	3676.2	3613.7	3297.8	3113.5	3383.0	3888.6	4420.1	4386.7	3822.8
55°	3178.1	3227.7	3312.9	3276.2	3129.6	3119.9	3529.6	4190.4	4839.4	4835.1	4185.1
57.5°	2686.5	2755.5	2934.5	2955.0	2911.9	3080.0	3636.3	4427.6	5210.3	5225.4	4548.4
60°	2062.3	2120.6	2392.2	2608.9	2646.7	2986.2	3690.2	4688.5	5844.2	5922.9	5183.3
62.5°	1672.1	1682.9	1888.8	2159.4	2415.9	2814.8	3698.8	5018.4	6398.3	6469.5	5563.9
65°	1251.6	1249.5	1439.2	1747.5	2104.4	2614.3	3671.9	5121.9	6699.1	6881.3	5927.2
67°	1005.8	1029.6	1151.4	1444.6	1834.9	2426.7	3462.7	5045.3	6935.2	7135.7	6059.8
67.5°	967.0	978.9	1089.9	1367.0	1773.4	2370.7	3401.3	5025.9	6934.1	7104.5	6019.9
70°	771.9	788.1	868.9	1052.2	1418.7	2003.0	2969.0	4575.3	6523.4	6771.3	5654.5
72.5°	596.2	609.1	666.2	805.3	1080.2	1612.8	2455.8	3937.1	5649.1	5845.3	4794.2
75°	453.9	458.2	512.1	607.0	824.7	1230.1	1896.3	3100.5	4645.4	4794.2	3896.1
77.5°	351.4	361.2	402.1	465.7	612.3	926.1	1427.4	2414.9	3695.6	3673.0	2962.5
80°	273.8	282.5	312.6	356.8	459.3	680.3	1044.6	1785.3	2699.5	2726.4	2169.1
82.5°	219.9	226.4	246.9	279.2	353.6	517.5	763.3	1334.6	2052.6	2042.9	1590.1
85°	175.7	180.0	195.1	223.2	272.8	392.4	563.8	991.8	1448.9	1460.8	1085.6
87.5°	136.9	142.3	159.6	176.8	215.6	298.6	416.1	687.8	963.8	973.5	746.0
90°	106.7	110.0	125.1	143.4	174.6	226.4	300.8	471.1	621.0	609.1	479.7
92.5°	78.7	81.9	95.9	113.2	135.8	174.6	216.7	301.9	363.3	370.9	299.7
95°	56.1	59.3	71.2	84.1	103.5	132.6	154.2	191.9	223.2	216.7	191.9
97.5°	43.1	44.2	52.8	62.5	78.7	102.4	114.3	132.6	146.6	143.4	133.7
100°	34.5	35.6	42.0	47.4	61.4	80.9	91.6	101.3	110.0	106.7	102.4
102.5°	29.1	30.2	34.5	38.8	50.7	67.9	74.4	80.9	84.1	84.1	81.9
105°	24.8	25.9	29.1	33.4	43.1	56.1	60.4	63.6	66.8	65.8	65.8
107.5°	22.6	22.6	25.9	29.1	37.7	47.4	49.6	50.7	51.7	51.7	53.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	20.5	21.6	23.7	25.9	33.4	42.0	42.0	41.0	41.0	41.0	44.2
112.5°	19.4	20.5	21.6	24.8	31.3	36.7	35.6	33.4	33.4	34.5	37.7
115°	19.4	19.4	20.5	23.7	29.1	33.4	31.3	28.0	28.0	29.1	32.3
117.5°	19.4	19.4	21.6	23.7	28.0	30.2	28.0	24.8	23.7	24.8	28.0
120°	20.5	20.5	21.6	23.7	25.9	28.0	25.9	22.6	21.6	22.6	25.9
122.5°	21.6	21.6	21.6	23.7	24.8	25.9	23.7	20.5	19.4	20.5	23.7
125°	22.6	22.6	22.6	23.7	24.8	23.7	21.6	19.4	19.4	19.4	22.6
127.5°	24.8	24.8	24.8	24.8	23.7	22.6	20.5	18.3	19.4	19.4	21.6
130°	27.0	27.0	25.9	24.8	23.7	21.6	19.4	17.2	18.3	19.4	21.6
132.5°	28.0	27.0	25.9	23.7	22.6	19.4	17.2	16.2	17.2	18.3	20.5
135°	25.9	25.9	23.7	21.6	20.5	17.2	15.1	15.1	16.2	17.2	18.3
137.5°	22.6	22.6	21.6	19.4	18.3	16.2	14.0	12.9	15.1	16.2	17.2
140°	19.4	19.4	18.3	16.2	15.1	14.0	11.9	10.8	12.9	14.0	15.1
142.5°	16.2	16.2	15.1	12.9	12.9	11.9	9.7	9.7	11.9	11.9	12.9
145°	12.9	12.9	12.9	10.8	10.8	9.7	7.5	8.6	9.7	10.8	10.8
147.5°	10.8	10.8	10.8	8.6	8.6	7.5	5.4	6.5	7.5	8.6	8.6
150°	8.6	8.6	8.6	7.5	6.5	5.4	4.3	5.4	5.4	6.5	6.5
152.5°	6.5	6.5	6.5	5.4	5.4	3.2	3.2	4.3	4.3	5.4	5.4
155°	4.3	4.3	5.4	4.3	3.2	2.2	3.2	3.2	4.3	4.3	4.3
157.5°	3.2	3.2	3.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2
160°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0
2.5°	329.9	327.7	322.3	317.0	311.6	307.2	301.9	300.8	300.8	298.6	298.6
5°	334.2	327.7	314.8	304.0	292.2	282.5	274.9	271.7	268.4	266.3	264.1
7.5°	343.9	333.1	311.6	294.3	277.1	262.0	251.2	245.8	242.6	239.3	240.4
10°	366.5	350.4	319.1	291.1	265.2	244.7	231.8	225.3	223.2	219.9	219.9
12.5°	415.1	393.5	348.2	300.8	260.9	232.9	217.8	215.6	217.8	221.0	221.0
15°	491.6	459.3	393.5	327.7	270.6	230.7	222.1	228.6	236.1	240.4	240.4
17.5°	585.4	541.2	447.4	359.0	284.6	250.1	239.3	248.0	257.7	264.1	264.1
20°	688.9	629.6	502.4	385.9	305.1	277.1	265.2	272.8	285.7	295.4	294.3
22.5°	823.6	737.4	566.0	409.7	329.9	301.9	294.3	304.0	323.4	336.4	337.4
25°	990.7	872.2	640.4	440.9	352.5	323.4	325.6	342.8	368.7	382.7	382.7
27.5°	1168.6	1018.8	704.0	472.2	376.2	346.1	356.8	380.6	408.6	424.8	426.9
30°	1403.6	1207.4	783.8	503.5	396.7	368.7	381.6	409.7	430.1	439.9	440.9
32.5°	1643.0	1386.4	847.4	535.8	416.1	384.9	396.7	423.7	442.0	452.8	451.7
35°	1859.7	1530.9	885.1	550.9	433.4	396.7	402.1	431.2	442.0	448.5	447.4
37.5°	2025.7	1634.3	899.1	554.1	439.9	402.1	404.3	429.1	444.2	456.0	453.9
40°	2053.7	1620.3	846.3	534.7	438.8	402.1	406.4	434.5	450.6	456.0	454.9
42.5°	2157.2	1659.1	801.0	500.2	425.8	401.0	410.7	436.6	444.2	440.9	437.7
45°	2337.2	1741.1	788.1	483.0	409.7	397.8	412.9	431.2	430.1	423.7	421.5
47.5°	2515.1	1819.8	760.0	475.4	405.4	396.7	411.8	424.8	428.0	421.5	419.4
50°	2741.5	1924.3	737.4	464.6	406.4	396.7	409.7	424.8	426.9	416.1	415.1
52.5°	2944.2	1996.6	704.0	454.9	407.5	400.0	409.7	424.8	425.8	415.1	412.9
55°	3155.5	2073.1	669.5	445.2	410.7	403.2	412.9	425.8	426.9	419.4	417.2
57.5°	3366.8	2140.0	630.7	437.7	414.0	409.7	415.1	426.9	435.5	433.4	433.4
60°	3798.0	2331.9	624.2	438.8	417.2	415.1	417.2	432.3	448.5	443.1	444.2
62.5°	3968.4	2372.8	612.3	452.8	426.9	419.4	420.4	436.6	453.9	461.4	460.3
65°	4123.6	2376.1	588.6	462.5	438.8	422.6	422.6	437.7	466.8	484.1	484.1
67°	4115.0	2311.4	571.4	463.6	444.2	425.8	421.5	437.7	467.9	487.3	488.4
67.5°	4065.4	2269.3	564.9	463.6	445.2	425.8	420.4	436.6	467.9	488.4	488.4
70°	3766.8	2048.3	522.9	451.7	442.0	420.4	414.0	425.8	461.4	489.4	489.4
72.5°	3119.9	1686.1	463.6	422.6	421.5	406.4	396.7	409.7	444.2	473.3	472.2
75°	2521.6	1347.6	404.3	379.5	390.3	379.5	371.9	381.6	415.1	444.2	442.0
77.5°	1884.5	1012.3	349.3	338.5	353.6	346.1	339.6	349.3	381.6	409.7	405.4
80°	1392.9	780.5	304.0	299.7	310.5	308.3	306.2	310.5	338.5	356.8	353.6
82.5°	1025.2	594.0	262.0	258.7	271.7	271.7	271.7	274.9	295.4	301.9	298.6
85°	728.8	447.4	230.7	222.1	232.9	238.3	241.5	242.6	253.3	254.4	246.9
87.5°	513.2	352.5	207.0	188.7	194.1	205.9	211.3	210.2	214.5	211.3	203.8
90°	357.9	277.1	187.6	160.6	160.6	172.5	181.1	180.0	181.1	172.5	164.9
92.5°	252.3	209.1	158.5	132.6	130.4	142.3	149.9	148.8	148.8	140.1	132.6
95°	169.3	154.2	126.1	106.7	103.5	113.2	120.7	118.6	118.6	110.0	106.7
97.5°	125.1	117.5	103.5	90.6	84.1	89.5	94.9	94.9	95.9	90.6	87.3
100°	98.1	94.9	88.4	77.6	71.2	72.2	75.5	75.5	79.8	75.5	73.3
102.5°	81.9	79.8	74.4	66.8	61.4	60.4	62.5	63.6	69.0	65.8	64.7
105°	67.9	66.8	63.6	57.1	52.8	52.8	52.8	53.9	59.3	57.1	57.1
107.5°	55.0	55.0	55.0	49.6	46.4	46.4	45.3	46.4	50.7	50.7	50.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	46.4	46.4	47.4	43.1	41.0	41.0	39.9	41.0	45.3	46.4	46.4
112.5°	39.9	39.9	41.0	38.8	36.7	36.7	35.6	35.6	39.9	43.1	43.1
115°	34.5	35.6	35.6	34.5	33.4	32.3	31.3	32.3	36.7	39.9	39.9
117.5°	30.2	31.3	32.3	31.3	30.2	29.1	28.0	29.1	33.4	37.7	37.7
120°	27.0	28.0	29.1	29.1	28.0	27.0	24.8	27.0	30.2	34.5	35.6
122.5°	24.8	25.9	25.9	25.9	25.9	23.7	22.6	23.7	27.0	31.3	32.3
125°	23.7	23.7	24.8	24.8	23.7	21.6	20.5	21.6	23.7	27.0	28.0
127.5°	22.6	22.6	23.7	23.7	21.6	19.4	18.3	19.4	21.6	23.7	23.7
130°	22.6	22.6	22.6	21.6	20.5	18.3	16.2	17.2	19.4	21.6	21.6
132.5°	21.6	20.5	20.5	20.5	18.3	16.2	15.1	15.1	17.2	19.4	19.4
135°	19.4	19.4	18.3	18.3	17.2	14.0	12.9	12.9	15.1	17.2	17.2
137.5°	17.2	17.2	16.2	16.2	15.1	12.9	10.8	11.9	14.0	14.0	15.1
140°	15.1	15.1	14.0	14.0	12.9	10.8	8.6	9.7	11.9	11.9	12.9
142.5°	12.9	12.9	12.9	11.9	10.8	8.6	7.5	8.6	10.8	10.8	10.8
145°	10.8	10.8	10.8	9.7	8.6	6.5	5.4	7.5	9.7	8.6	8.6
147.5°	8.6	8.6	8.6	8.6	6.5	5.4	4.3	6.5	7.5	7.5	7.5
150°	6.5	6.5	6.5	6.5	5.4	3.2	3.2	5.4	6.5	6.5	6.5
152.5°	5.4	5.4	5.4	6.5	5.4	2.2	2.2	4.3	5.4	5.4	5.4
155°	4.3	4.3	5.4	5.4	4.3	2.2	1.1	3.2	4.3	4.3	4.3
157.5°	3.2	3.2	4.3	4.3	3.2	2.2	1.1	2.2	4.3	3.2	3.2
160°	2.2	3.2	3.2	3.2	3.2	2.2	0.0	2.2	3.2	2.2	2.2
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)