

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: P254479

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254479
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-AF24-90-D-U-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8407.6 lumens
Efficiency: N/A
Efficacy: 89.4 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: B3 - U3 - G3

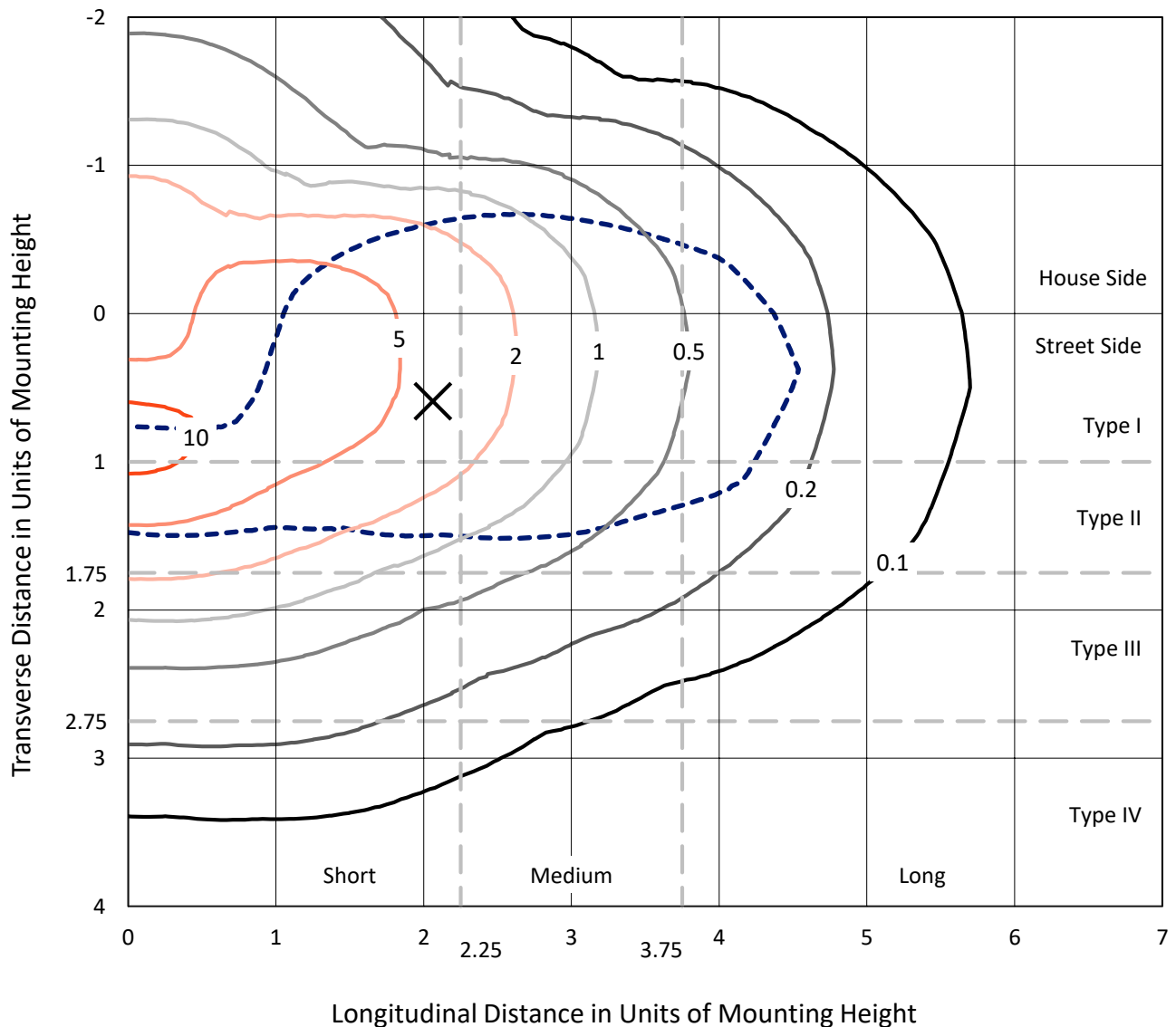
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

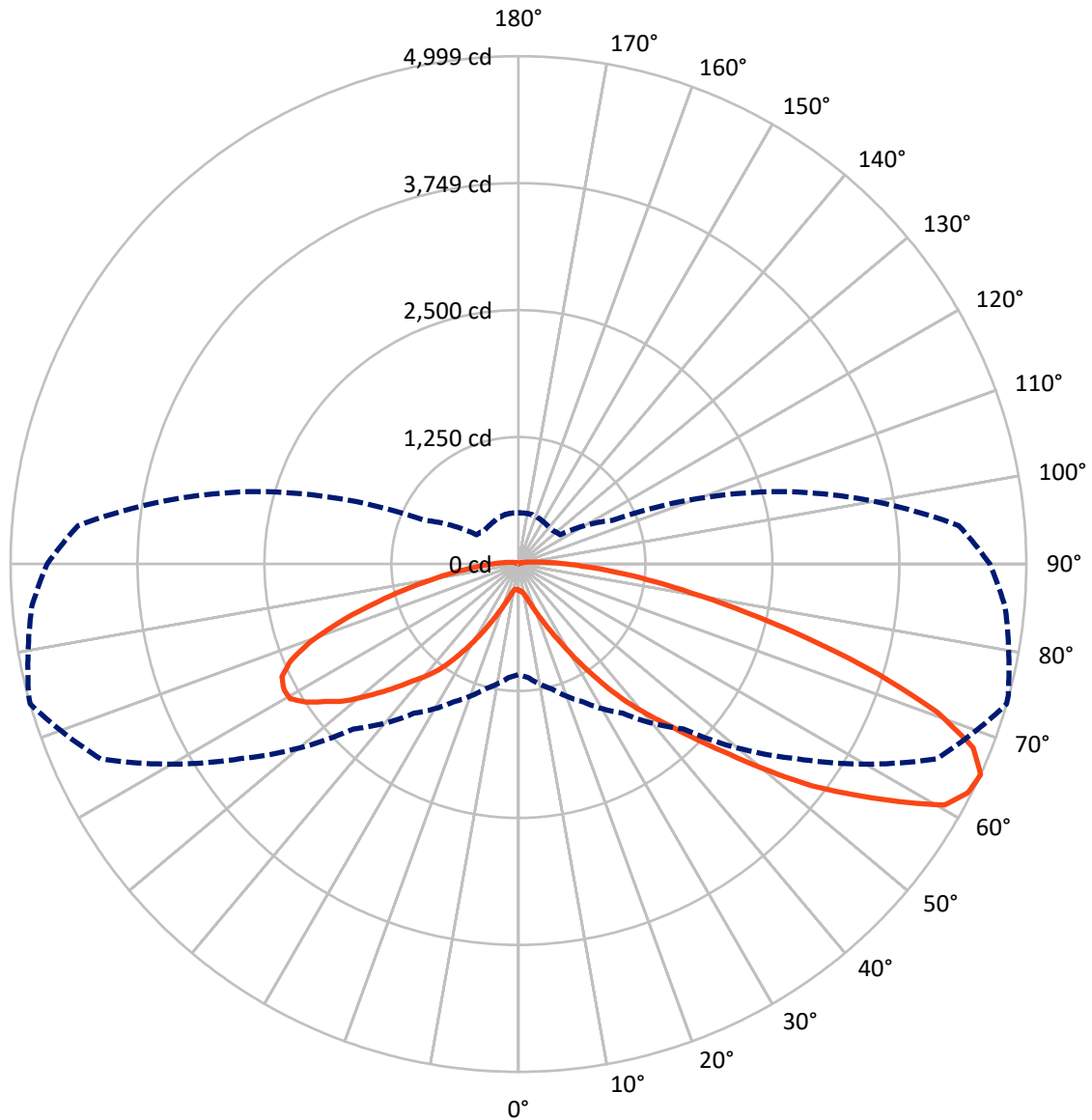


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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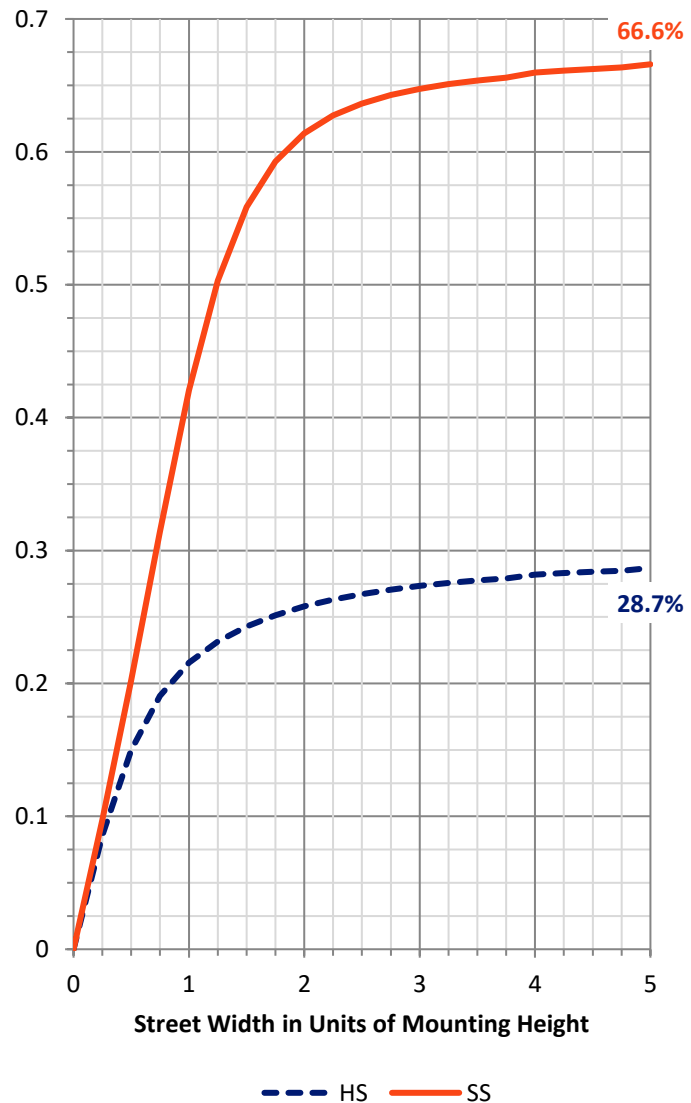
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2486.2	121.6	2607.7
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	5676.1	123.8	5799.9
	% Fixture	67.5	1.5	69.0
Total	Lumens	8162.3	245.3	8407.6
	% Fixture	97.1	2.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	0.3
10°-20°	105.4	1.3
20°-30°	311.1	3.7
30°-40°	758.6	9.0
40°-50°	1384.9	16.5
50°-60°	1970.7	23.4
60°-70°	1984.0	23.6
70°-80°	1174.7	14.0
80°-90°	447.1	5.3
90°-100°	140.9	1.7
100°-110°	53.2	0.6
110°-120°	25.5	0.3
120°-130°	14.5	0.2
130°-140°	8.2	0.1
140°-150°	2.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8162.3	97.1
0°-180°	8407.6	100.0



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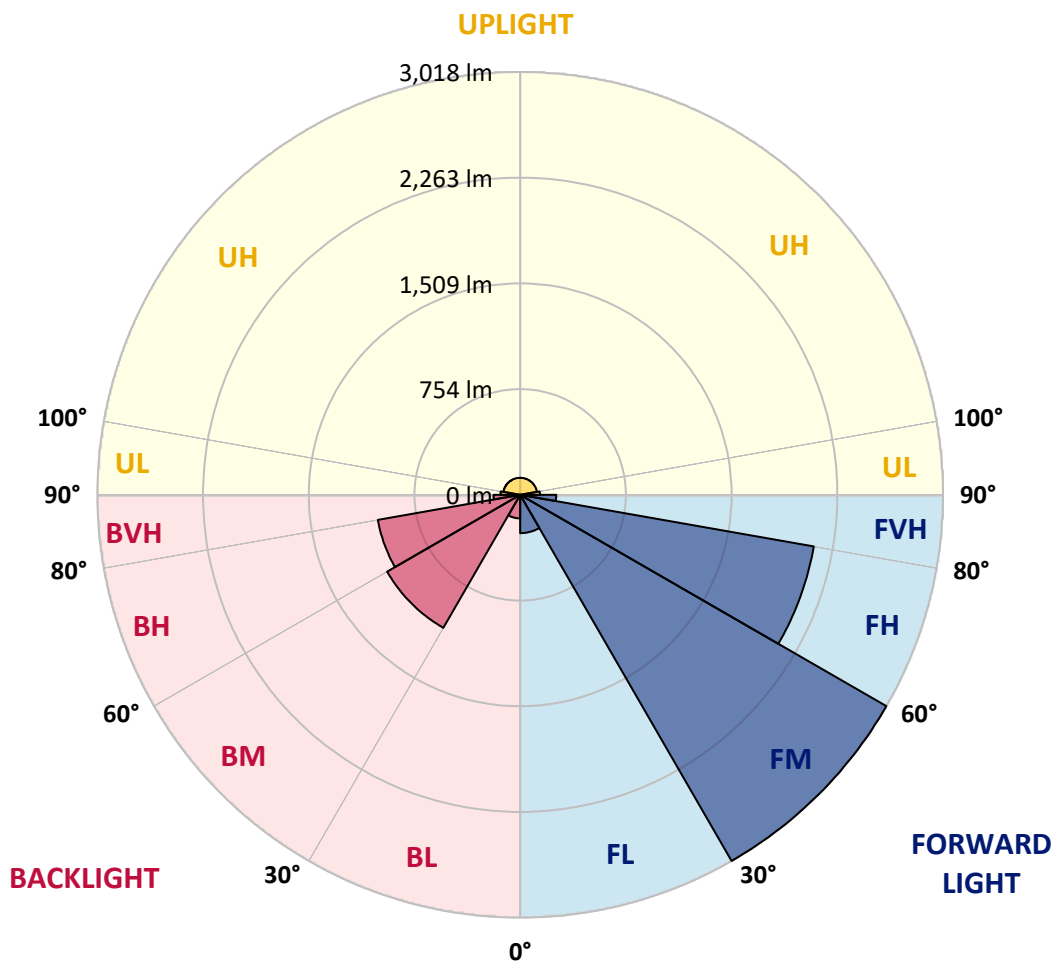
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.7	3.3			
FM (30°-60°)	3017.5	35.9			
FH (60°-80°)	2127.7	25.3			G2/5000
FVH (80°-90°)	257.2	3.1			G3/500
BL (0°-30°)	168.4	2.0	B1/500		
BM (30°-60°)	1096.8	13.0	B2/2500		
BH (60°-80°)	1031.1	12.3	B3/2500		G3/2500
BVH (80°-90°)	189.9	2.3			G2/225
UL (90°-100°)	140.9	1.7		U3/500	
UH (100°-180°)	121.6	1.4		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6
2.5°	276.8	275.8	276.8	275.8	275.8	273.7	270.7	266.7	262.6	261.7	258.6
5°	295.9	295.9	295.9	294.0	292.0	288.9	282.8	275.8	268.7	267.7	261.7
7.5°	322.2	323.3	321.2	317.2	313.1	305.0	298.0	287.9	278.8	277.8	268.7
10°	361.6	360.6	357.6	352.5	341.5	332.4	320.2	306.1	295.9	294.0	282.8
12.5°	416.1	415.1	410.1	396.0	380.8	363.7	351.5	338.4	328.3	327.2	317.2
15°	486.9	484.9	474.8	456.5	432.3	410.1	400.0	386.9	376.8	375.7	365.7
17.5°	573.8	571.7	557.6	531.3	498.0	472.7	461.7	446.5	435.4	436.4	421.3
20°	682.8	677.8	658.6	623.3	582.9	552.5	535.4	520.2	511.2	510.1	499.0
22.5°	823.3	816.2	781.8	739.4	688.9	647.5	625.2	609.1	603.0	604.1	593.9
25°	1003.0	989.9	946.5	887.9	825.3	761.6	735.4	717.2	720.3	722.2	712.2
27.5°	1216.2	1210.2	1143.5	1072.8	979.8	898.0	873.8	855.6	861.6	866.6	858.6
30°	1480.8	1460.7	1382.8	1276.7	1156.5	1056.6	1025.3	1019.2	1035.3	1042.5	1037.4
32.5°	1784.8	1767.8	1661.7	1527.3	1352.5	1234.4	1198.0	1214.1	1240.4	1248.5	1242.5
35°	2145.5	2130.4	1987.9	1804.1	1581.9	1455.6	1407.1	1434.4	1467.7	1474.8	1465.7
37.5°	2518.2	2510.1	2354.6	2113.2	1841.4	1677.8	1636.4	1675.8	1711.2	1717.2	1686.9
40°	2837.5	2844.5	2688.9	2421.2	2108.1	1914.1	1889.9	1925.3	1935.4	1938.4	1880.9
42.5°	3097.1	3101.1	2965.7	2695.0	2358.6	2160.7	2147.5	2165.7	2168.8	2168.8	2102.1
45°	3165.7	3187.9	3110.2	2904.1	2597.1	2400.0	2400.0	2441.5	2461.6	2467.8	2381.8
47.5°	3197.0	3213.2	3168.8	3020.3	2789.0	2631.3	2683.9	2779.9	2800.0	2811.2	2701.1
50°	3168.8	3191.0	3182.9	3087.0	2920.2	2843.5	2997.0	3164.7	3202.0	3213.2	3078.9
52.5°	2946.5	2991.0	3057.6	3074.8	3000.1	3020.3	3314.3	3597.0	3630.4	3636.5	3437.4
55°	2625.3	2677.9	2791.0	2911.2	2982.9	3137.5	3622.3	4015.3	4007.2	4011.2	3782.9
57.5°	2221.2	2272.8	2425.3	2615.2	2823.3	3163.7	3807.1	4354.6	4410.2	4421.3	4205.1
60°	1849.5	1870.8	2034.3	2249.6	2525.4	3030.4	3807.1	4637.4	4818.3	4797.0	4504.2
62.5°	1421.3	1464.7	1635.4	1869.7	2169.8	2704.1	3668.8	4727.4	4963.8	4934.4	4659.7
65°	1087.9	1123.3	1273.8	1494.9	1793.9	2295.0	3340.4	4538.5	4999.1	4992.0	4809.2
67.5°	848.5	853.6	982.9	1171.8	1419.2	1851.5	2803.1	4171.8	4828.4	4827.4	4718.3
70°	641.4	646.5	751.6	926.3	1096.0	1416.2	2238.4	3574.8	4374.9	4361.8	4412.2
72.5°	489.9	495.9	578.8	718.2	842.4	1057.6	1706.1	2874.8	3694.0	3713.2	3788.0
75°	378.8	384.8	449.5	557.6	645.5	775.8	1232.3	2164.7	2961.6	2992.9	3149.6
77.5°	292.0	298.0	349.5	431.3	495.9	568.7	858.6	1587.9	2291.0	2331.4	2506.1
80°	224.2	230.3	275.8	334.3	386.9	431.3	605.1	1137.4	1724.3	1769.7	1972.8
82.5°	173.7	179.8	218.2	265.7	310.2	340.4	440.4	810.1	1285.8	1323.3	1534.4
85°	134.3	139.4	171.8	209.1	251.5	278.8	337.4	573.8	923.2	954.6	1121.3
87.5°	104.0	108.1	134.3	164.7	204.1	231.3	268.7	417.2	633.3	657.6	768.7
90°	78.8	82.9	104.0	127.3	161.6	190.9	215.1	300.0	435.4	449.5	506.1
92.5°	57.6	60.6	77.7	94.9	123.3	151.5	171.8	222.2	295.9	303.0	327.2
95°	43.5	45.4	57.6	70.7	92.9	117.1	133.3	163.7	199.0	203.1	211.1
97.5°	34.4	35.4	44.4	54.5	71.7	90.9	103.0	120.2	140.5	142.4	146.5
100°	29.3	30.3	37.3	45.4	57.6	72.7	81.8	92.9	104.0	105.1	108.1
102.5°	25.3	26.3	31.3	37.3	48.5	60.6	66.7	73.8	79.8	78.8	81.8
105°	22.2	22.2	27.3	32.3	41.4	50.5	54.5	58.6	60.6	60.6	62.6
107.5°	19.2	20.2	23.2	28.2	36.3	43.5	45.4	46.4	46.4	46.4	48.5
110°	17.2	17.2	20.2	24.2	31.3	37.3	38.4	37.3	36.3	36.3	38.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	15.1	15.1	17.2	22.2	28.2	33.3	33.3	31.3	28.2	28.2	30.3
115°	13.1	14.1	15.1	20.2	26.3	30.3	29.3	26.3	23.2	23.2	25.3
117.5°	12.1	12.1	14.1	18.2	24.2	27.3	26.3	22.2	19.2	19.2	21.2
120°	12.1	12.1	13.1	17.2	22.2	25.3	23.2	19.2	16.2	16.2	19.2
122.5°	12.1	12.1	13.1	16.2	20.2	22.2	21.2	17.2	14.1	14.1	16.2
125°	13.1	13.1	13.1	16.2	19.2	21.2	19.2	16.2	13.1	13.1	14.1
127.5°	14.1	14.1	14.1	16.2	18.2	19.2	17.2	14.1	12.1	12.1	13.1
130°	15.1	15.1	14.1	15.1	17.2	17.2	16.2	13.1	11.2	11.2	13.1
132.5°	15.1	15.1	14.1	14.1	15.1	15.1	14.1	11.2	10.1	10.1	12.1
135°	14.1	14.1	13.1	13.1	13.1	13.1	11.2	9.1	9.1	9.1	10.1
137.5°	13.1	13.1	12.1	12.1	12.1	11.2	9.1	7.1	7.1	7.1	9.1
140°	11.2	11.2	11.2	10.1	10.1	9.1	7.1	6.0	6.0	6.0	7.1
142.5°	10.1	9.1	9.1	8.1	8.1	7.1	5.0	4.0	4.0	4.0	5.0
145°	8.1	8.1	7.1	6.0	6.0	5.0	3.1	2.0	3.1	3.1	4.0
147.5°	6.0	6.0	5.0	5.0	4.0	3.1	1.0	2.0	2.0	2.0	3.1
150°	4.0	4.0	4.0	3.1	2.0	1.0	1.0	1.0	1.0	2.0	2.0
152.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6
2.5°	256.6	255.5	253.6	249.5	248.5	246.4	243.5	242.4	240.4	241.4	240.4
5°	258.6	256.6	249.5	245.5	240.4	237.4	234.4	232.3	230.3	229.3	228.3
7.5°	263.6	260.6	252.6	244.5	237.4	232.3	228.3	225.3	223.2	222.2	221.3
10°	276.8	272.7	260.6	249.5	238.3	231.3	226.3	223.2	221.3	221.3	221.3
12.5°	309.1	304.0	285.9	266.7	248.5	237.4	231.3	235.4	240.4	245.5	248.5
15°	355.6	349.5	327.2	300.0	272.7	256.6	257.6	265.7	271.7	277.8	278.8
17.5°	414.2	406.1	377.8	341.5	305.0	292.0	287.9	295.9	306.1	312.1	315.2
20°	486.9	476.8	440.4	389.9	353.5	334.3	325.3	328.3	339.4	349.5	350.5
22.5°	579.8	561.6	519.2	449.5	404.1	374.7	361.6	361.6	376.8	389.9	391.9
25°	698.0	680.8	613.2	525.3	458.6	414.2	399.0	402.0	422.3	439.4	441.4
27.5°	843.4	819.2	730.3	615.2	515.2	448.5	432.3	440.4	460.6	478.8	480.8
30°	1017.2	978.8	865.7	712.2	570.7	482.8	457.6	467.7	485.9	505.0	505.0
32.5°	1214.1	1168.7	1018.2	815.2	623.3	507.1	471.7	484.9	503.1	522.2	521.2
35°	1427.3	1374.7	1176.8	919.2	670.7	524.3	478.8	494.0	515.2	538.4	538.4
37.5°	1643.5	1590.0	1336.4	1012.1	704.1	526.3	480.8	503.1	531.3	552.5	550.6
40°	1821.3	1748.5	1465.7	1078.8	718.2	521.2	483.9	508.1	529.3	538.4	536.3
42.5°	2034.3	1941.5	1594.0	1113.2	709.1	512.1	484.9	502.1	512.1	512.1	508.1
45°	2291.9	2185.9	1753.5	1149.5	685.9	502.1	479.8	489.9	489.9	481.8	475.8
47.5°	2604.1	2460.7	1922.2	1181.8	662.7	493.0	474.8	478.8	467.7	455.5	451.5
50°	2967.8	2794.0	2108.1	1205.0	640.4	485.9	472.7	470.8	462.7	450.5	446.5
52.5°	3303.1	3108.1	2301.0	1223.2	617.1	482.8	472.7	472.7	464.6	447.4	443.4
55°	3633.4	3425.4	2455.6	1213.1	592.0	483.9	476.8	478.8	467.7	450.5	446.5
57.5°	4049.6	3825.3	2639.4	1195.0	565.7	485.9	480.8	482.8	472.7	456.5	452.6
60°	4338.4	4090.0	2770.8	1166.7	541.4	485.9	482.8	485.9	482.8	474.8	471.7
62.5°	4510.2	4233.4	2784.9	1102.0	523.2	481.8	480.8	490.9	498.0	495.0	491.9
65°	4639.5	4350.6	2753.6	1018.2	502.1	470.8	475.8	491.9	504.0	505.0	504.0
67.5°	4539.4	4241.5	2602.1	920.2	476.8	456.5	466.7	484.9	503.1	509.1	508.1
70°	4232.5	3939.5	2341.4	800.0	447.4	434.3	448.5	472.7	491.9	499.0	496.9
72.5°	3601.1	3339.4	1982.9	684.9	413.2	405.1	420.2	448.5	464.6	468.7	465.6
75°	2980.9	2750.6	1591.9	564.7	375.7	368.7	382.8	405.1	416.1	416.1	411.1
77.5°	2382.9	2168.8	1253.5	468.7	337.4	329.3	342.4	355.6	357.6	350.5	345.5
80°	1871.8	1669.8	949.5	387.9	298.0	289.9	294.0	302.1	305.0	292.0	284.9
82.5°	1451.6	1270.7	713.1	321.2	259.6	249.5	252.6	256.6	257.6	241.4	233.3
85°	1046.5	910.1	523.2	270.7	223.2	214.1	213.2	214.1	215.1	201.0	194.0
87.5°	718.2	623.3	382.8	227.3	192.9	183.8	181.8	180.9	180.9	165.6	158.6
90°	472.7	418.2	284.9	191.9	163.7	154.6	150.5	149.5	147.5	131.3	125.2
92.5°	307.1	280.8	211.1	157.5	135.3	127.3	122.2	119.2	116.2	101.0	94.9
95°	201.0	189.9	159.6	126.2	109.0	102.0	98.0	93.9	89.9	76.7	72.7
97.5°	142.4	138.4	124.3	102.0	86.8	81.8	78.8	75.8	72.7	61.6	59.6
100°	107.1	106.1	100.0	83.9	70.7	67.7	64.7	62.6	60.6	52.5	50.5
102.5°	82.9	83.9	81.8	68.6	59.6	56.6	54.5	52.5	51.6	45.4	44.4
105°	64.7	66.7	65.7	57.6	50.5	48.5	46.4	44.4	43.5	39.4	39.4
107.5°	50.5	52.5	53.5	47.5	43.5	41.4	39.4	37.3	37.3	35.4	35.4
110°	40.4	42.5	44.4	40.4	37.3	36.3	34.4	32.3	31.3	31.3	31.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	33.3	34.4	36.3	34.4	32.3	31.3	29.3	27.3	27.3	27.3	28.2
115°	27.3	29.3	30.3	29.3	28.2	28.2	25.3	23.2	22.2	24.2	24.2
117.5°	23.2	25.3	26.3	25.3	25.3	25.3	22.2	20.2	19.2	20.2	21.2
120°	20.2	21.2	22.2	22.2	22.2	22.2	20.2	17.2	16.2	18.2	18.2
122.5°	17.2	18.2	19.2	20.2	20.2	19.2	17.2	15.1	14.1	16.2	16.2
125°	15.1	16.2	17.2	18.2	18.2	17.2	15.1	13.1	12.1	14.1	14.1
127.5°	14.1	15.1	16.2	16.2	16.2	15.1	13.1	11.2	11.2	12.1	13.1
130°	14.1	14.1	15.1	15.1	14.1	13.1	11.2	9.1	9.1	11.2	11.2
132.5°	13.1	13.1	13.1	13.1	12.1	11.2	9.1	8.1	8.1	10.1	10.1
135°	11.2	11.2	11.2	11.2	10.1	9.1	8.1	6.0	7.1	8.1	8.1
137.5°	9.1	9.1	9.1	9.1	8.1	7.1	6.0	5.0	5.0	6.0	7.1
140°	7.1	8.1	8.1	7.1	6.0	6.0	4.0	3.1	4.0	5.0	5.0
142.5°	6.0	6.0	6.0	5.0	5.0	4.0	3.1	2.0	3.1	4.0	4.0
145°	5.0	5.0	5.0	5.0	4.0	2.0	1.0	1.0	2.0	2.0	2.0
147.5°	4.0	4.0	4.0	4.0	3.1	2.0	0.0	0.0	1.0	1.0	1.0
150°	3.1	3.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	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)