

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: P254360

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254360
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-AF24-70-D-U-T4W-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6705.3 lumens
Efficiency: N/A
Efficacy: 90.6 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: B2 - U3 - G3

Input Watts (W): 74
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

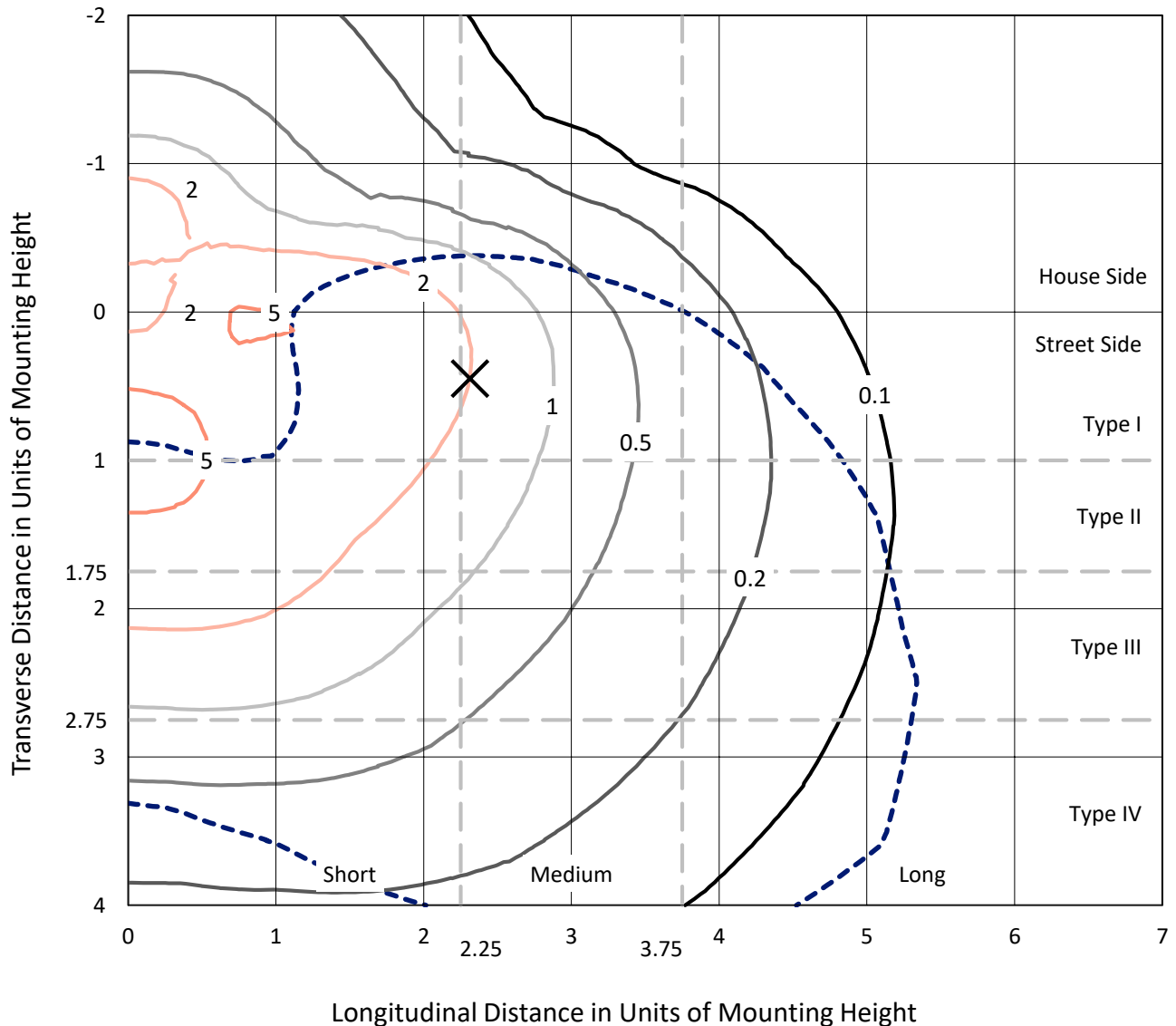


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

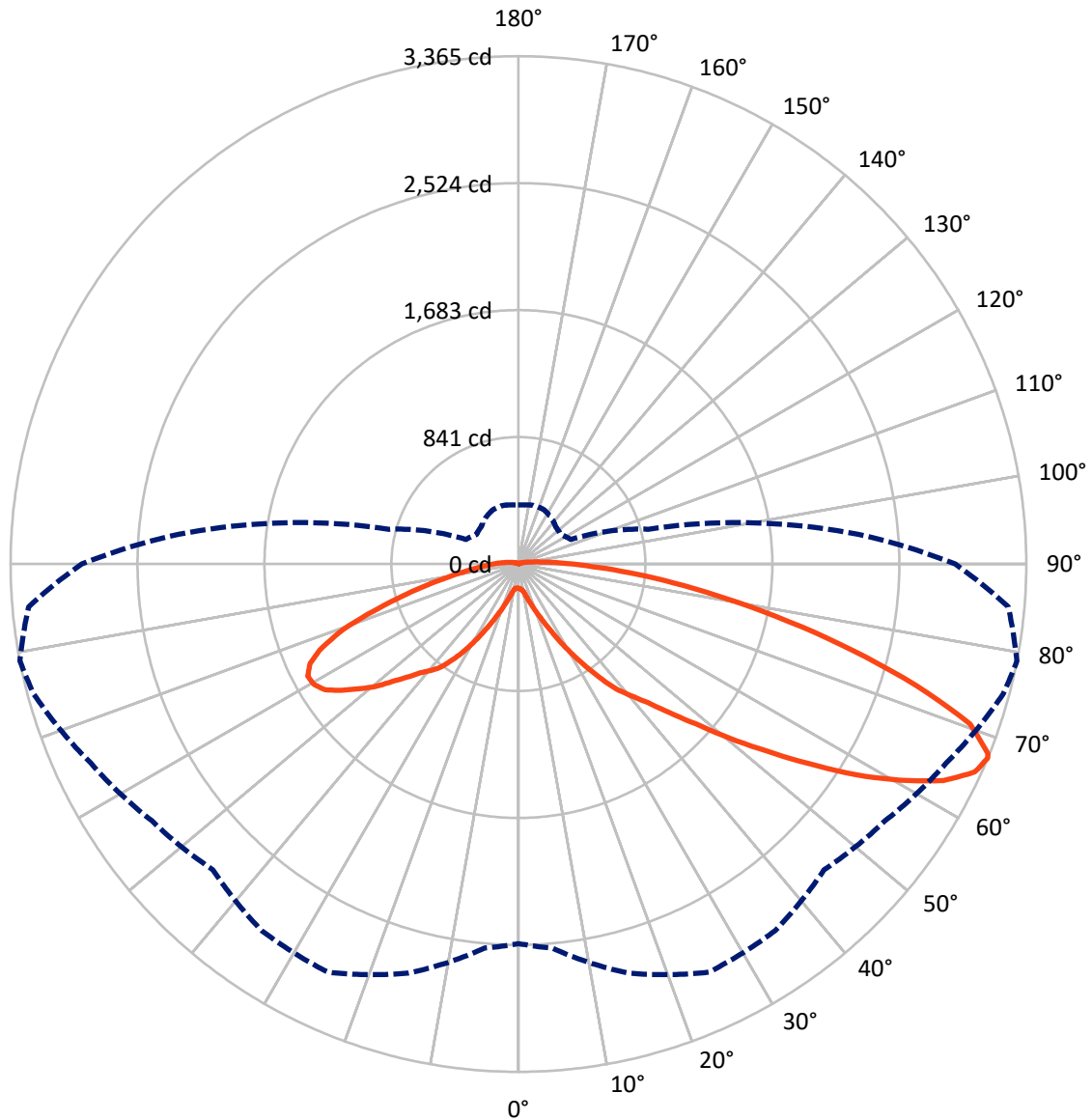


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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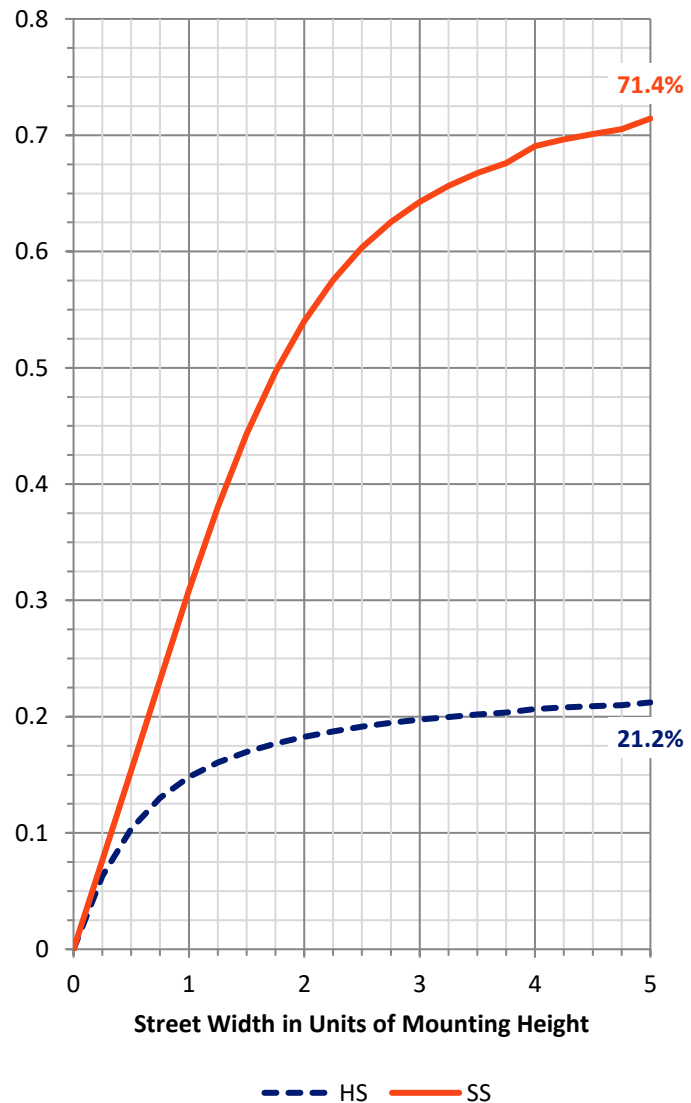
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.4	100.9	1596.2
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	4969.1	139.9	5109.0
	% Fixture	74.1	2.1	76.2
Total	Lumens	6464.5	240.8	6705.3
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.2
10°-20°	68.9	1.0
20°-30°	198.7	3.0
30°-40°	450.7	6.7
40°-50°	783.1	11.7
50°-60°	1254.8	18.7
60°-70°	1748.4	26.1
70°-80°	1381.1	20.6
80°-90°	562.5	8.4
90°-100°	160.4	2.4
100°-110°	47.7	0.7
110°-120°	18.5	0.3
120°-130°	8.9	0.1
130°-140°	4.1	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6464.5	96.4
0°-180°	6705.3	100.0



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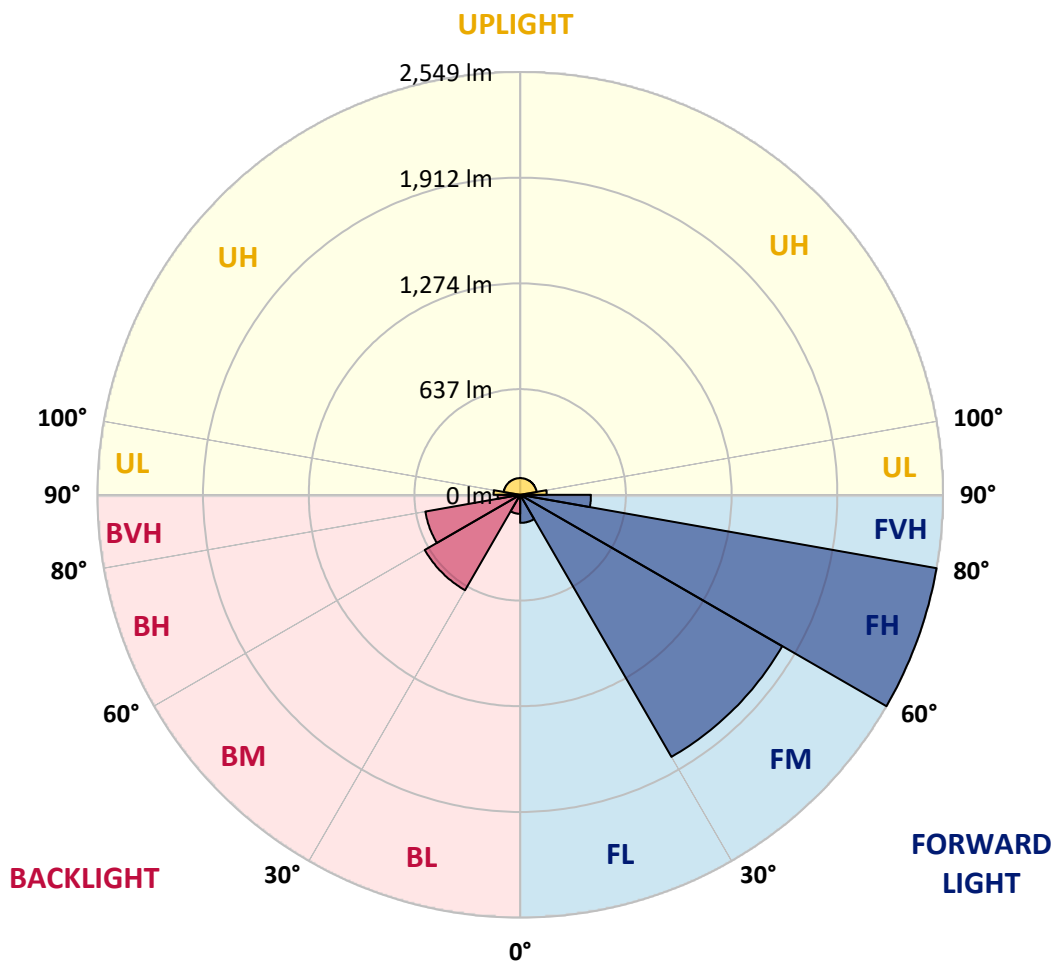
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.3	2.5			
FM (30°-60°)	1824.2	27.2			
FH (60°-80°)	2548.9	38.0			G2/5000
FVH (80°-90°)	426.7	6.4			G3/500
BL (0°-30°)	114.6	1.7	B1/500		
BM (30°-60°)	664.3	9.9	B1/1000		
BH (60°-80°)	580.6	8.7	B2/1000		G2/1000
BVH (80°-90°)	135.8	2.0			G2/225
UL (90°-100°)	160.4	2.4		U3/500	
UH (100°-180°)	100.9	1.5		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2
2.5°	171.9	171.9	172.6	172.6	172.6	171.0	168.6	166.2	164.6	163.7	162.1
5°	184.7	184.0	184.7	184.0	184.0	180.8	176.7	172.6	169.4	167.8	165.3
7.5°	203.4	203.4	202.6	201.0	199.4	193.7	187.3	182.4	177.5	174.3	171.9
10°	226.9	227.8	226.1	222.2	218.0	210.8	203.4	197.0	189.7	185.6	182.4
12.5°	263.5	263.5	260.1	251.3	241.6	232.6	224.5	218.0	214.8	210.8	207.5
15°	308.7	308.0	303.0	289.3	276.4	261.0	255.3	251.3	248.8	245.7	241.6
17.5°	362.3	361.4	352.6	333.9	313.7	302.3	293.4	289.3	290.9	287.7	284.5
20°	426.3	424.7	411.0	385.0	364.7	349.3	339.6	335.5	340.5	337.9	335.5
22.5°	508.2	504.1	484.7	447.4	423.9	398.8	389.8	388.2	399.6	399.6	399.6
25°	605.4	601.4	572.2	529.3	488.0	457.1	448.2	457.1	475.8	478.2	483.0
27.5°	718.1	713.3	677.6	617.7	562.4	521.1	513.8	531.6	560.8	572.2	577.1
30°	851.0	847.8	796.7	720.6	642.8	590.9	582.8	615.1	660.6	678.4	690.5
32.5°	1008.3	1004.2	930.5	840.5	731.9	667.0	660.6	709.9	778.0	795.1	819.5
35°	1202.8	1198.7	1101.5	975.8	831.6	748.1	748.1	812.2	895.6	919.1	949.1
37.5°	1398.1	1397.3	1299.2	1131.5	941.9	837.3	838.9	912.7	1013.2	1049.7	1077.2
40°	1588.6	1590.2	1478.4	1286.3	1065.0	935.4	934.5	1009.1	1113.7	1145.2	1172.1
42.5°	1762.1	1761.3	1655.9	1450.8	1193.1	1041.5	1026.9	1099.8	1210.9	1253.9	1289.5
45°	1882.7	1891.8	1810.7	1599.1	1321.9	1151.7	1121.8	1202.8	1344.7	1403.8	1451.6
47.5°	2032.8	2033.6	1959.0	1738.6	1454.0	1266.0	1238.5	1340.6	1520.5	1582.1	1632.4
50°	2198.1	2206.2	2147.1	1913.5	1603.2	1394.9	1384.4	1513.2	1727.2	1813.9	1876.3
52.5°	2339.1	2348.8	2312.4	2113.8	1783.1	1560.2	1560.2	1723.9	1953.3	2057.1	2117.9
55°	2442.8	2459.1	2467.9	2305.9	1986.6	1753.9	1771.7	1955.7	2210.2	2334.3	2408.0
57.5°	2525.5	2548.3	2590.3	2476.9	2186.8	1986.6	2012.4	2209.4	2519.1	2634.9	2712.8
60°	2647.9	2673.8	2750.0	2660.0	2417.0	2237.0	2271.8	2486.6	2802.7	2907.3	2966.4
62.5°	2660.0	2691.7	2845.6	2858.7	2632.5	2481.8	2558.8	2769.5	3071.0	3161.8	3174.7
65°	2604.2	2645.5	2849.7	2968.0	2861.8	2711.2	2819.8	3013.5	3263.0	3323.0	3289.8
67°	2515.0	2554.7	2806.0	2984.3	2965.7	2864.3	2965.7	3125.3	3325.6	3365.1	3258.2
67.5°	2476.9	2515.0	2781.6	2981.0	2978.6	2891.1	2989.2	3149.6	3328.7	3355.5	3234.7
70°	2232.9	2285.6	2570.9	2877.3	2973.0	2915.4	3030.5	3141.5	3185.2	3175.5	3002.1
72.5°	1804.2	1853.6	2164.9	2593.6	2812.5	2783.3	2885.4	2905.6	2828.6	2762.2	2525.5
75°	1323.5	1345.4	1632.4	2093.5	2452.6	2485.7	2562.7	2517.5	2376.4	2288.0	2047.3
77.5°	919.1	940.9	1161.4	1585.4	1977.6	2101.6	2177.9	2111.3	1963.1	1827.7	1565.0
80°	608.7	620.0	792.6	1155.0	1551.3	1723.9	1789.5	1721.5	1533.5	1400.6	1151.7
82.5°	371.3	393.2	517.9	809.7	1199.5	1411.8	1459.7	1381.1	1177.7	1039.8	830.0
85°	222.9	234.3	331.5	547.1	882.6	1120.1	1165.5	1063.4	857.4	733.4	556.0
87.5°	137.7	142.7	208.2	354.2	619.2	836.5	885.1	764.3	578.7	488.7	372.0
90°	89.1	93.2	137.0	233.4	409.2	595.7	617.7	520.3	385.0	325.8	252.1
92.5°	60.0	63.3	93.2	154.8	269.1	390.7	406.9	343.6	254.5	217.2	171.9
95°	42.2	44.6	65.7	105.3	175.1	240.7	257.8	222.9	166.2	143.4	118.3
97.5°	32.4	34.1	49.5	76.2	118.3	155.5	162.1	145.1	112.6	98.9	85.9
100°	25.9	27.6	38.9	57.6	85.1	106.2	110.3	99.7	79.4	71.3	63.3
102.5°	22.7	22.7	31.5	45.4	64.0	78.6	79.4	71.3	58.4	52.7	48.6
105°	19.4	19.4	25.9	36.5	51.1	60.7	60.7	52.7	42.9	38.9	37.2
107.5°	16.2	17.1	21.9	29.2	40.5	48.6	47.0	38.9	30.8	28.4	27.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	13.7	14.6	18.7	24.4	33.3	39.7	37.2	29.9	22.7	21.1	21.1
112.5°	12.1	13.0	15.4	21.1	28.4	33.3	29.9	22.7	17.1	16.2	17.1
115°	11.4	11.4	13.7	18.7	24.4	27.6	25.1	18.7	13.7	13.0	13.7
117.5°	9.8	10.5	12.1	16.2	21.9	23.5	21.1	14.6	10.5	10.5	12.1
120°	9.8	9.8	11.4	14.6	19.4	21.1	17.8	12.1	9.0	9.0	10.5
122.5°	9.0	9.0	10.5	13.7	17.1	18.7	15.4	10.5	8.0	8.0	9.0
125°	9.0	9.0	10.5	13.0	15.4	15.4	13.0	9.0	7.3	7.3	8.0
127.5°	9.8	9.8	10.5	12.1	13.7	13.7	11.4	8.0	6.4	6.4	7.3
130°	9.8	9.8	9.8	11.4	12.1	11.4	9.8	7.3	6.4	6.4	7.3
132.5°	9.8	9.8	9.8	9.8	10.5	9.8	8.0	5.7	5.7	5.7	6.4
135°	9.0	9.0	8.0	9.0	9.0	7.3	5.7	4.1	4.9	4.9	5.7
137.5°	7.3	7.3	7.3	7.3	6.4	5.7	4.1	3.3	4.1	4.9	4.9
140°	6.4	6.4	5.7	5.7	4.9	4.1	2.4	3.3	4.1	4.1	4.1
142.5°	4.9	4.9	4.9	4.1	3.3	2.4	1.6	2.4	3.3	3.3	4.1
145°	3.3	3.3	3.3	2.4	1.6	0.8	1.6	1.6	2.4	3.3	3.3
147.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	1.6	2.4	2.4	2.4
150°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	1.6	2.4	2.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2	161.2
2.5°	161.2	160.5	158.1	156.5	154.8	153.9	153.2	153.2	152.4	151.6	151.6
5°	163.7	162.1	158.1	154.8	152.4	150.8	149.1	148.4	146.7	145.9	145.9
7.5°	168.6	166.2	161.2	155.5	151.6	149.1	147.5	145.9	144.2	144.2	144.2
10°	178.3	175.1	167.8	160.5	153.9	150.8	149.1	147.5	147.5	146.7	146.7
12.5°	202.6	197.8	185.6	172.6	161.2	156.5	154.8	158.9	163.7	164.6	166.9
15°	235.9	231.0	215.6	197.0	178.3	167.8	173.4	180.8	188.8	195.3	195.3
17.5°	277.2	271.5	250.4	224.5	201.8	195.3	197.0	207.5	218.8	224.5	225.3
20°	328.3	320.1	290.9	255.3	230.2	220.4	222.9	233.4	249.6	257.8	259.4
22.5°	392.2	380.1	341.2	290.9	260.1	247.3	249.6	262.6	284.5	295.9	299.9
25°	473.3	457.9	398.8	333.9	290.2	270.8	277.9	298.3	325.8	342.8	342.0
27.5°	566.5	542.3	468.5	378.5	320.1	293.4	304.8	333.1	366.3	385.8	388.2
30°	678.4	646.9	544.6	425.6	346.2	313.7	328.3	364.0	401.2	427.1	429.6
32.5°	802.4	765.2	622.4	472.5	367.1	329.1	345.3	389.8	432.7	463.6	464.5
35°	929.7	881.8	696.2	513.1	385.0	341.2	358.3	409.2	459.6	495.2	497.6
37.5°	1051.2	995.3	764.3	539.7	396.3	347.7	365.6	425.6	482.3	520.3	522.8
40°	1142.9	1073.9	806.5	548.7	398.8	350.9	372.0	432.0	482.3	511.5	513.1
42.5°	1257.9	1167.1	837.3	539.7	392.2	350.9	374.4	423.9	462.8	482.3	482.3
45°	1411.8	1300.0	884.2	529.3	379.3	348.5	367.9	406.0	432.0	441.7	441.7
47.5°	1595.8	1450.0	932.1	521.9	369.7	342.8	358.3	384.1	397.9	398.8	397.1
50°	1828.5	1639.7	991.2	511.5	364.0	337.2	349.3	366.3	374.4	371.3	369.7
52.5°	2050.6	1808.2	1033.4	498.4	360.7	334.8	344.5	359.0	361.4	351.7	349.3
55°	2315.6	2006.0	1062.5	477.4	357.4	336.4	344.5	356.6	355.0	342.0	339.6
57.5°	2579.8	2191.6	1088.5	458.8	354.2	338.8	347.7	358.3	355.0	342.8	340.5
60°	2782.5	2318.8	1073.9	439.3	350.9	342.8	353.4	364.0	364.0	354.2	353.4
62.5°	2941.3	2395.1	1039.0	419.0	348.5	346.2	360.7	376.1	379.3	372.0	371.3
65°	2977.0	2364.3	971.8	399.6	345.3	348.5	370.4	389.8	392.2	385.0	384.1
67°	2893.5	2258.8	889.2	383.4	340.5	349.3	376.8	397.9	401.2	393.9	391.4
67.5°	2857.0	2217.5	868.1	379.3	338.8	349.3	377.7	398.8	402.8	395.5	393.2
70°	2577.4	1971.9	755.4	356.6	328.3	345.3	379.3	404.5	406.9	397.9	394.8
72.5°	2135.7	1590.2	624.9	334.8	315.3	334.8	373.6	400.4	399.6	386.6	384.1
75°	1693.2	1246.5	503.3	309.6	297.4	318.5	358.3	381.8	376.8	361.4	358.3
77.5°	1286.3	932.1	409.2	284.5	277.2	297.4	332.2	349.3	339.6	325.0	321.8
80°	916.6	671.1	333.1	261.0	255.3	273.1	299.9	308.7	302.3	288.6	284.5
82.5°	641.2	482.3	277.2	237.5	234.3	248.0	265.1	273.9	270.8	258.5	255.3
85°	443.4	337.2	233.4	213.9	212.4	222.2	232.6	238.3	240.7	234.3	230.2
87.5°	298.3	248.0	198.6	188.0	188.8	196.1	203.4	209.1	216.5	215.6	211.5
90°	213.2	185.6	166.2	161.2	162.9	171.0	174.3	177.5	186.4	186.4	184.0
92.5°	152.4	141.1	134.5	133.0	136.1	142.7	144.2	145.1	151.6	152.4	147.5
95°	108.6	102.9	105.3	107.0	110.3	116.0	115.0	112.6	116.0	116.0	111.9
97.5°	80.2	78.6	83.5	85.1	87.5	92.5	89.9	85.9	88.4	85.1	82.7
100°	61.6	61.6	67.3	68.1	69.7	72.1	71.3	68.1	69.0	64.8	63.3
102.5°	48.6	49.5	53.5	54.3	55.9	58.4	56.7	55.0	53.5	48.6	48.6
105°	38.1	38.9	42.2	42.9	44.6	47.0	46.2	43.8	41.3	37.2	37.2
107.5°	29.2	30.8	33.3	34.1	35.6	38.1	37.2	34.1	30.8	28.4	28.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.7	24.4	26.8	27.6	28.4	30.8	29.2	25.9	23.5	21.9	21.9
112.5°	18.7	19.4	21.9	22.7	23.5	25.1	23.5	20.2	17.8	17.1	17.1
115°	15.4	16.2	17.8	18.7	20.2	20.2	18.7	15.4	13.7	13.7	13.7
117.5°	13.0	13.7	15.4	16.2	16.2	17.1	14.6	12.1	10.5	11.4	11.4
120°	11.4	11.4	13.0	13.0	13.7	13.7	12.1	9.8	8.0	9.0	9.8
122.5°	9.8	9.8	10.5	11.4	11.4	11.4	9.8	8.0	6.4	7.3	8.0
125°	8.0	9.0	9.0	9.8	9.8	9.8	8.0	6.4	5.7	6.4	6.4
127.5°	8.0	8.0	8.0	8.0	8.0	8.0	6.4	4.9	4.9	5.7	5.7
130°	7.3	7.3	7.3	7.3	6.4	5.7	4.9	3.3	4.1	4.9	4.9
132.5°	6.4	6.4	6.4	5.7	4.9	4.1	3.3	2.4	2.4	4.1	4.1
135°	5.7	5.7	4.9	4.1	3.3	2.4	1.6	1.6	1.6	3.3	3.3
137.5°	4.9	4.9	4.1	3.3	2.4	1.6	0.8	0.0	0.8	1.6	1.6
140°	4.9	4.9	4.1	2.4	1.6	0.8	0.0	0.0	0.0	0.8	0.8
142.5°	4.1	4.1	3.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.3	3.3	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.4	2.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)