Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P254901

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-FL-7030**

Issue Date: 3/3/2020

Report Generated By E9812814

Test Information

Test Method:	LM-79-08
Report Number:	P254901
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	LXF.LXT-AF24-80-D-U-T4W-FL-7030
Description:	DECORATIVE POST TOP LUMINAIRE
	(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7265.7 lumens
Efficiency:	N/A
Efficacy:	87.5 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):	83
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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Scaled Data Report

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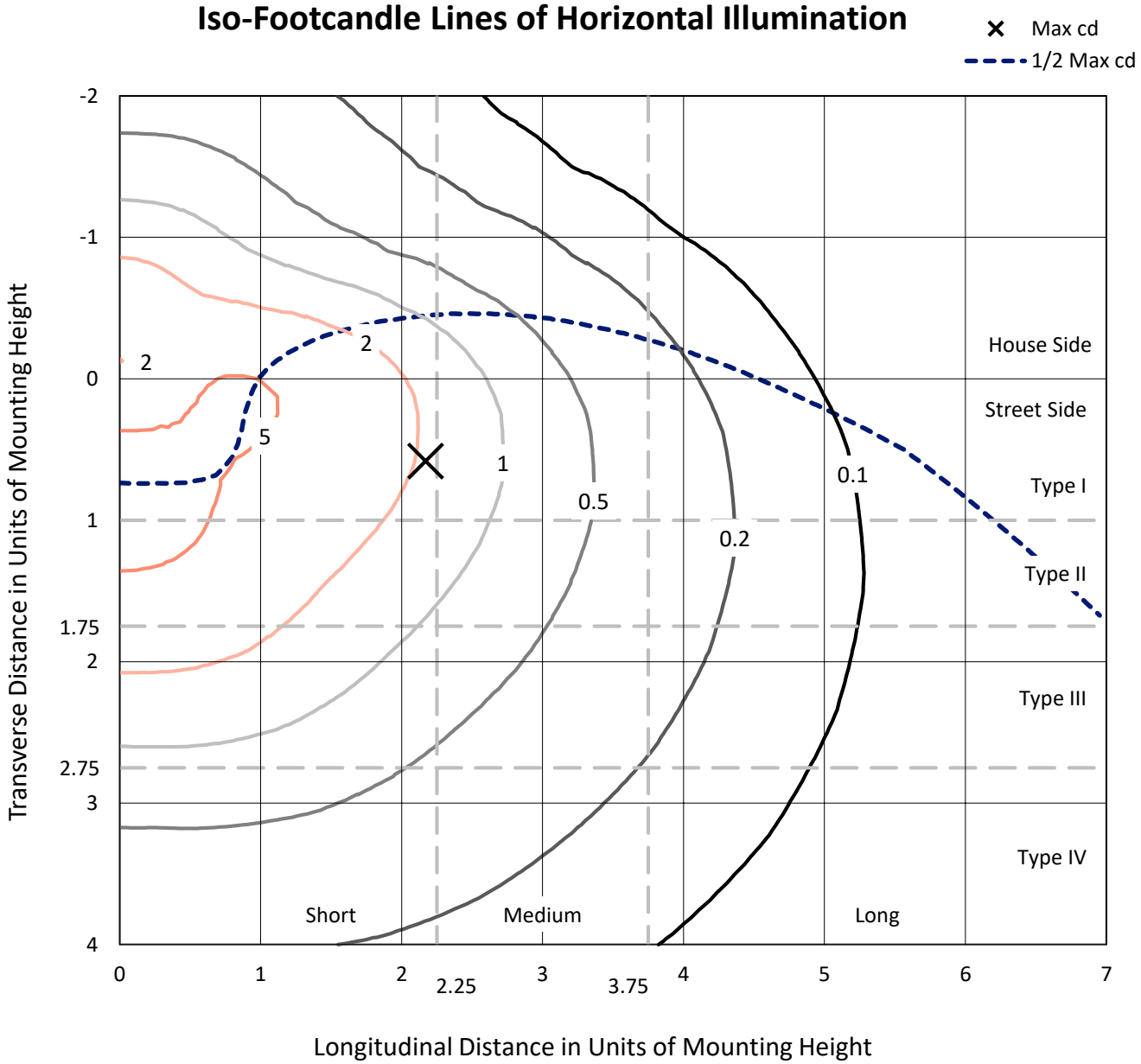
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Short - Non-Cutoff

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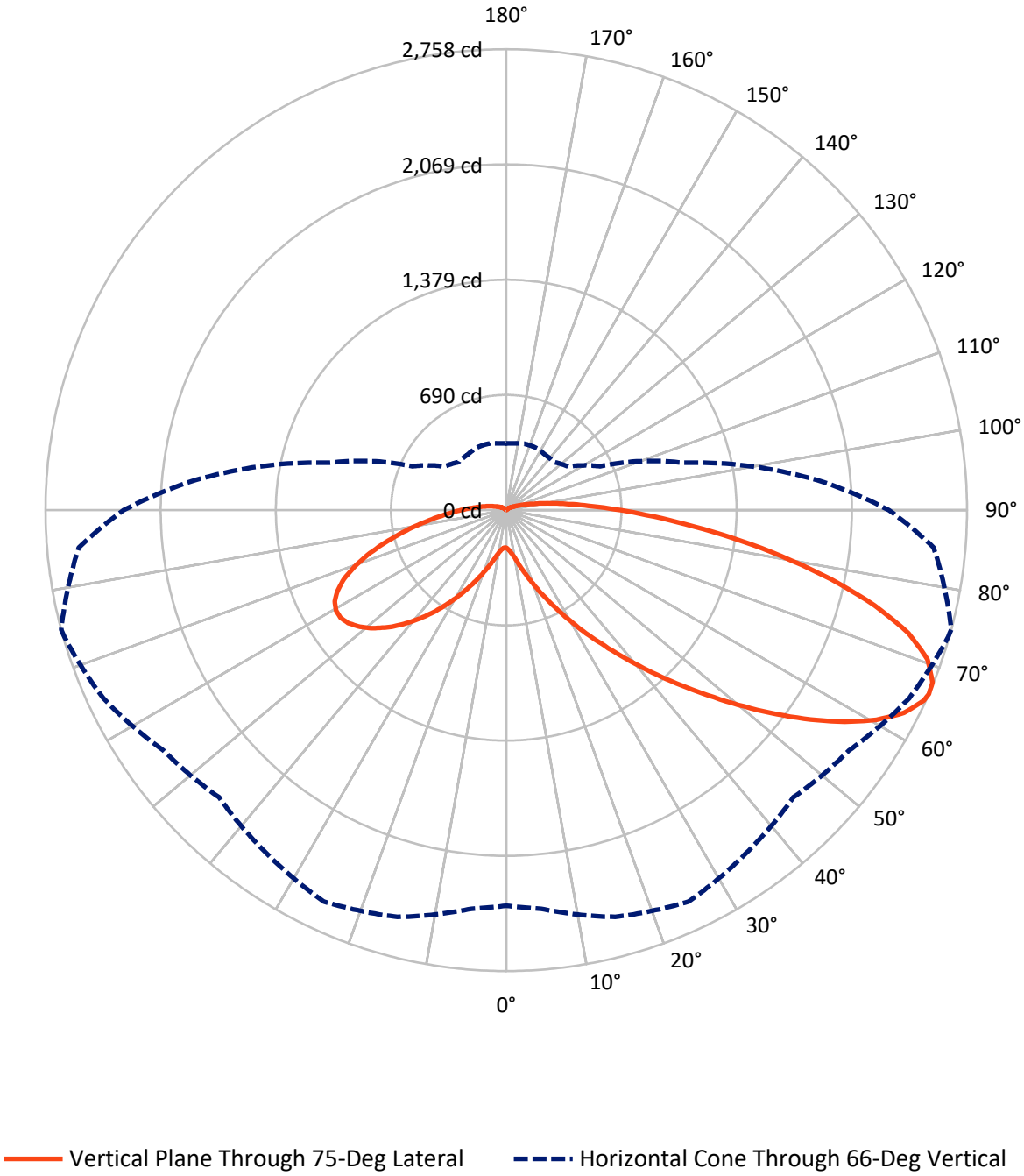
Luminous Intensity Polar Plot



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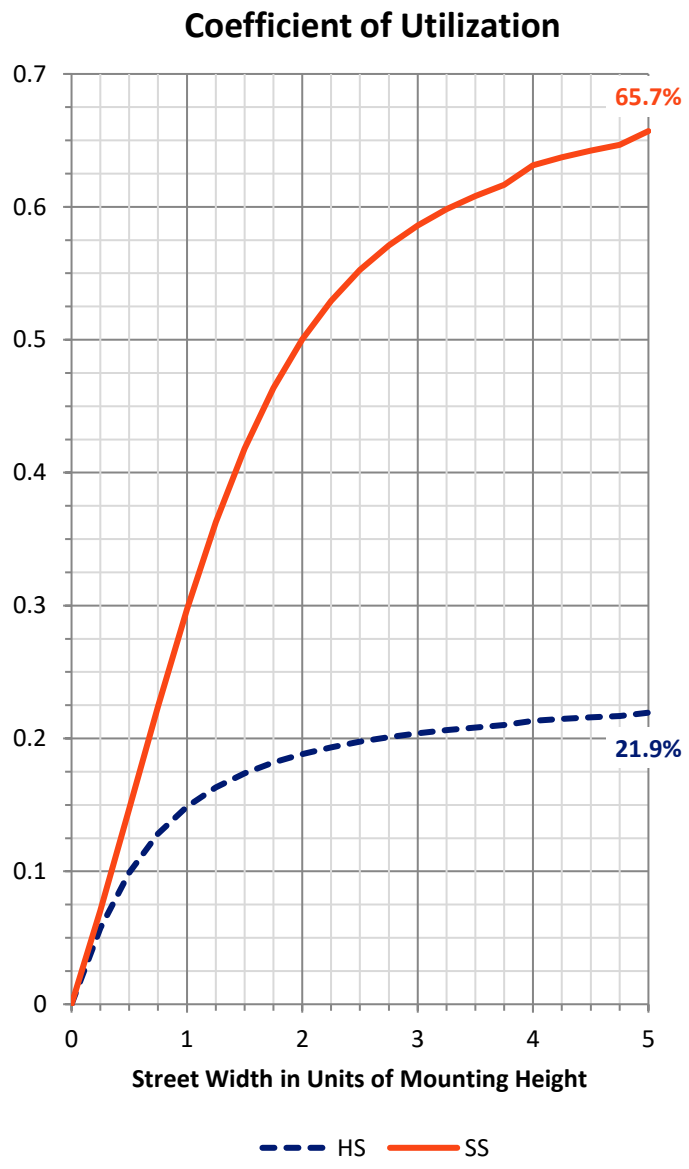
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.7	181.4	1865.1
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	5048.7	351.9	5400.6
	% Fixture	69.5	4.8	74.3
Total	Lumens	6732.4	533.4	7265.7
	% Fixture	92.7	7.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.3
10°-20°	100.6	1.4
20°-30°	254.6	3.5
30°-40°	509.4	7.0
40°-50°	866.0	11.9
50°-60°	1288.7	17.7
60°-70°	1582.3	21.8
70°-80°	1360.8	18.7
80°-90°	746.0	10.3
90°-100°	311.3	4.3
100°-110°	127.2	1.8
110°-120°	56.0	0.8
120°-130°	25.6	0.4
130°-140°	10.6	0.1
140°-150°	2.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6732.4	92.7
0°-180°	7265.7	100.0



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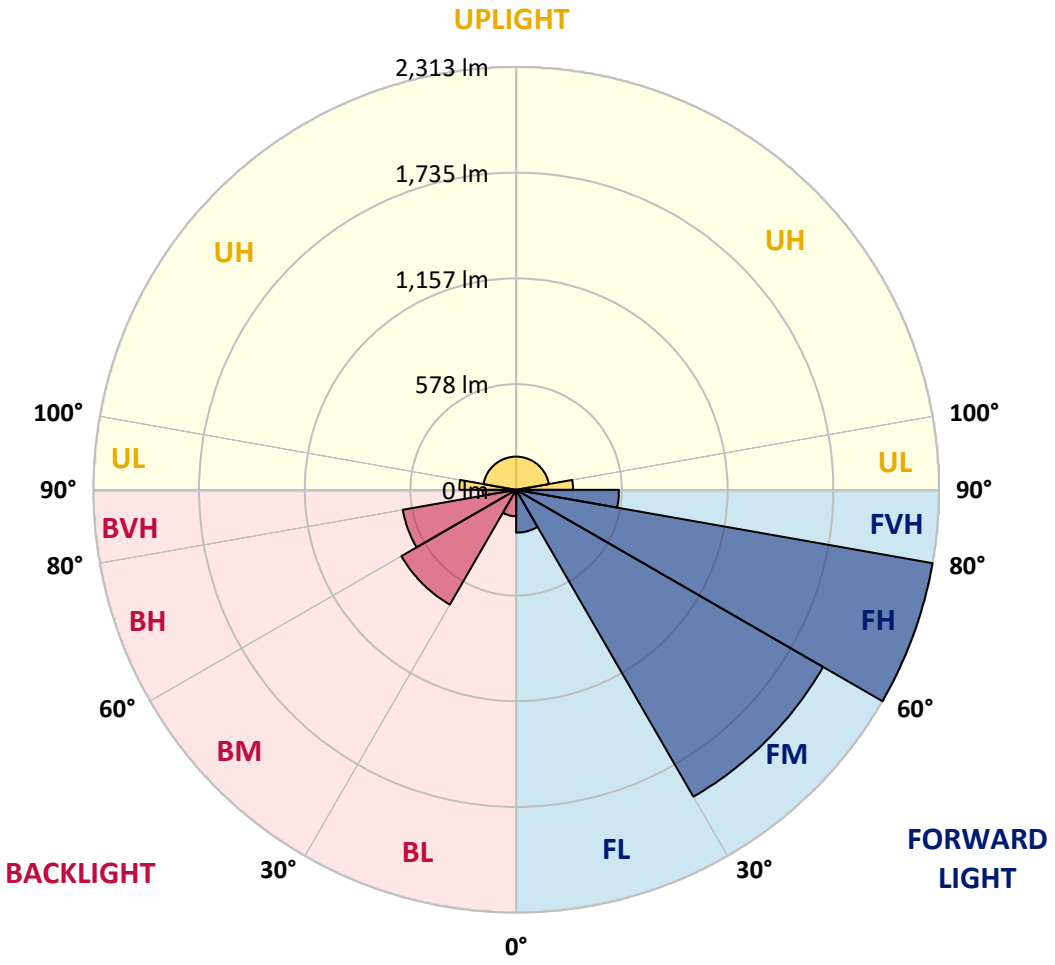
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	234.4	3.2			
FM	(30°-60°)	1938.8	26.7			
FH	(60°-80°)	2313.4	31.8			G2/5000
FVH	(80°-90°)	562.1	7.7			G4/750
BL	(0°-30°)	144.8	2.0	B1/500		
BM	(30°-60°)	725.3	10.0	B1/1000		
BH	(60°-80°)	629.7	8.7	B2/1000		G2/1000
BVH	(80°-90°)	183.9	2.5			G2/225
UL	(90°-100°)	311.3	4.3		U3/500	
UH	(100°-180°)	181.4	2.5		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°	74°	75°	85°
0°	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	*226.8*	226.8
2.5°	249.8	249.8	249.0	249.0	246.3	243.6	241.9	237.4	234.8	*234.8*	231.2
5°	276.4	276.4	275.6	273.8	270.2	265.8	260.5	254.2	249.0	*248.1*	241.9
7.5°	309.2	309.2	307.4	303.8	298.6	292.4	285.2	276.4	268.4	*266.7*	257.9
10°	349.9	349.9	347.3	342.0	334.9	326.9	317.2	304.8	294.1	*293.3*	280.9
12.5°	401.3	398.7	396.9	388.1	378.4	367.6	356.1	341.1	330.5	*330.5*	313.7
15°	459.9	459.9	452.8	441.2	428.9	414.6	402.2	387.3	374.8	*373.8*	354.4
17.5°	524.6	523.6	515.6	501.5	484.7	470.5	454.5	437.7	423.5	*423.5*	400.4
20°	599.0	597.1	586.5	567.9	547.5	531.5	513.8	494.4	479.3	*479.3*	453.7
22.5°	684.0	680.4	667.1	641.5	621.0	598.0	577.7	558.2	542.3	*544.0*	514.7
25°	779.7	775.2	758.4	725.6	696.4	668.8	648.6	628.1	616.7	*612.2*	588.3
27.5°	887.7	878.9	860.3	818.7	777.1	743.3	722.1	707.0	696.4	*692.8*	665.4
30°	1006.5	997.6	972.0	919.6	864.7	822.1	801.9	790.3	785.0	*780.5*	753.2
32.5°	1142.0	1132.3	1096.9	1031.3	960.4	907.3	887.7	882.5	882.5	*878.9*	851.4
35°	1289.1	1276.7	1234.2	1151.8	1062.3	998.5	979.9	982.6	983.5	*980.8*	957.7
37.5°	1445.9	1432.6	1382.1	1283.8	1172.2	1096.0	1077.4	1089.8	1107.5	*1097.7*	1073.8
40°	1607.2	1594.7	1540.8	1421.1	1287.3	1197.8	1179.2	1204.0	1232.5	*1224.5*	1197.8
42.5°	1767.5	1762.3	1693.9	1566.4	1410.5	1305.1	1291.8	1329.9	1368.8	*1363.5*	1334.3
45°	1942.1	1926.1	1859.7	1717.0	1542.5	1429.1	1414.1	1465.3	1518.6	*1513.2*	1484.1
47.5°	2098.9	2083.8	2021.0	1869.4	1675.4	1552.2	1542.5	1611.6	1679.0	*1672.8*	1643.5
50°	2230.8	2229.1	2176.0	2019.1	1815.4	1680.7	1679.9	1766.6	1849.0	*1847.2*	1810.1
52.5°	2357.6	2355.0	2306.3	2164.4	1955.4	1810.1	1817.2	1930.5	2029.0	*2029.0*	1979.2
55°	2455.0	2454.2	2425.8	2302.6	2093.6	1953.5	1974.0	2098.9	2211.4	*2211.4*	2161.8
57.5°	2523.3	2522.4	2518.9	2424.9	2226.4	2090.0	2122.0	2264.6	2386.9	*2389.5*	2324.0
60°	2539.1	2547.2	2582.7	2523.3	2345.1	2214.0	2257.6	2417.0	2542.8	*2547.2*	2457.7
62.5°	2510.9	2523.3	2595.0	2582.7	2435.6	2325.7	2379.7	2543.7	2665.1	*2672.2*	2549.0
65°	2417.0	2442.6	2552.6	2593.3	2492.3	2407.2	2479.0	2635.8	2736.8	*2746.6*	2578.2
66°	*2366.4*	*2393.9*	*2519.7*	*2583.6*	*2504.7*	*2430.3*	*2505.6*	*2661.4*	*2751.9*	*2758.0*	*2568.4*
67.5°	2270.7	2298.3	2447.1	2545.4	2504.7	2452.5	2527.7	2679.2	2749.2	*2751.9*	2533.9
70°	2065.2	2107.7	2274.3	2426.7	2453.3	2440.9	2526.8	2652.6	2684.5	*2675.6*	2401.8
72.5°	1839.3	1863.2	2045.8	2253.0	2342.5	2366.4	2464.8	2552.6	2531.2	*2518.0*	2203.4
75°	1542.5	1577.0	1776.4	2013.0	2149.3	2222.9	2328.4	2359.4	2306.3	*2277.8*	1942.1
77.5°	1288.1	1302.4	1488.4	1731.2	1911.1	2011.1	2110.5	2120.1	2010.3	*1986.4*	1638.3
80°	1024.2	1038.4	1209.4	1442.3	1637.2	1769.4	1856.1	1830.4	1692.2	*1669.2*	1354.7
82.5°	800.0	819.6	950.7	1173.0	1361.8	1500.9	1567.4	1525.7	1394.5	*1361.8*	1079.2
85°	614.0	623.8	746.0	937.3	1103.9	1230.6	1285.6	1239.4	1098.6	*1072.9*	847.9
87.5°	467.8	477.6	581.1	731.8	878.9	986.9	1029.6	971.0	856.7	*839.8*	658.3
90°	357.1	364.2	446.6	575.9	689.3	778.8	808.0	762.0	660.0	*644.9*	506.8
92.5°	273.8	279.9	343.7	446.6	539.5	615.7	628.1	584.7	505.9	*492.6*	389.8
95°	210.0	217.1	268.4	349.1	421.7	479.3	488.2	450.9	388.1	*377.4*	300.4
97.5°	164.8	167.5	210.9	276.4	335.8	375.7	379.2	350.8	296.8	*289.7*	231.2
100°	131.9	133.8	167.5	218.8	267.5	296.8	298.6	269.4	227.7	*222.4*	177.2
102.5°	107.2	108.9	134.7	176.4	212.6	236.5	235.7	212.6	176.4	*169.3*	138.2
105°	88.6	89.5	110.0	143.5	172.7	188.7	187.8	165.6	135.6	*131.1*	108.0
107.5°	74.4	75.3	90.3	116.9	141.7	155.0	152.4	130.2	105.4	*102.8*	86.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	63.0	63.8	75.3	97.5	119.6	128.5	124.9	103.7	83.2	*79.8*	69.2
112.5°	54.9	54.9	63.8	81.5	100.1	108.0	102.8	84.1	65.5	*63.8*	56.7
115°	47.8	48.7	54.9	69.2	85.0	90.3	85.0	67.3	53.2	*51.4*	47.0
117.5°	42.5	42.5	47.8	58.5	71.8	75.3	70.0	54.9	43.3	*42.5*	39.9
120°	38.1	38.1	41.6	49.6	60.2	63.8	58.5	45.3	35.4	*34.5*	33.7
122.5°	34.5	34.5	36.3	42.5	51.4	53.2	47.8	37.2	30.1	*29.3*	29.3
125°	31.0	31.0	31.9	36.3	43.3	45.3	39.9	30.1	25.6	*24.8*	24.8
127.5°	28.3	28.3	28.3	31.9	35.4	37.2	32.8	24.8	21.3	*21.3*	22.2
130°	25.6	25.6	25.6	26.6	29.3	30.1	26.6	20.4	18.6	*18.6*	18.6
132.5°	23.1	23.1	22.2	23.1	23.9	23.9	20.4	16.8	16.0	*16.0*	16.8
135°	20.4	20.4	19.4	19.4	19.4	18.6	16.0	13.3	13.3	*13.3*	14.2
137.5°	17.7	17.7	16.8	16.0	15.1	13.3	11.5	10.6	10.6	*10.6*	11.5
140°	15.1	15.1	14.2	12.4	10.6	9.8	7.9	7.9	8.8	*8.8*	8.8
142.5°	11.5	11.5	10.6	9.8	7.9	6.2	5.4	5.4	6.2	*6.2*	7.1
145°	8.8	8.8	7.9	6.2	4.5	3.5	2.6	3.5	4.5	*4.5*	5.4
147.5°	6.2	6.2	5.4	4.5	2.6	0.9	1.7	2.6	3.5	*3.5*	4.5
150°	3.5	3.5	2.6	1.7	0.0	0.0	0.9	1.7	2.6	*2.6*	2.6
152.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	1.7	*1.7*	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	*0.9*	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	*0.9*	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.9
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°	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8
2.5°	229.5	227.7	224.2	221.5	218.0	216.3	214.3	212.6	211.8	210.0	210.0
5°	237.4	234.8	228.6	223.2	217.1	212.6	208.2	205.5	203.8	202.9	202.9
7.5°	252.5	248.1	238.3	230.3	221.5	216.3	210.9	205.5	202.9	202.0	202.0
10°	273.8	268.4	255.1	243.6	232.1	224.2	218.8	212.6	210.0	208.2	208.2
12.5°	304.8	295.9	279.9	263.1	248.1	238.3	231.2	226.8	226.8	228.6	227.7
15°	343.7	334.0	311.0	289.7	269.4	256.0	251.7	250.7	250.7	251.7	251.7
17.5°	386.3	373.0	346.5	318.9	295.0	281.8	276.4	274.7	274.7	275.6	277.3
20°	437.7	420.8	387.3	351.7	326.0	310.1	302.1	299.5	301.2	304.8	304.8
22.5°	497.0	478.4	433.2	388.1	358.0	337.6	327.8	325.1	328.7	333.1	334.0
25°	565.3	540.4	483.8	428.0	389.0	363.3	353.5	349.9	355.3	360.5	363.3
27.5°	640.6	608.7	538.6	467.8	416.4	385.3	374.8	373.8	381.0	388.1	390.7
30°	723.9	684.8	597.1	509.4	444.8	405.0	393.4	396.1	404.0	412.9	414.6
32.5°	815.9	769.9	658.3	550.2	466.9	420.0	406.7	412.9	422.7	434.1	436.0
35°	916.1	860.3	723.0	588.3	486.4	431.5	418.1	426.1	436.8	449.2	450.9
37.5°	1025.1	956.9	787.6	622.0	501.5	438.5	424.4	434.1	446.6	458.1	459.9
40°	1138.5	1057.0	852.3	652.1	512.1	442.9	427.1	437.7	450.0	458.9	460.7
42.5°	1267.0	1165.0	915.3	676.0	518.3	443.9	427.1	436.8	449.2	455.4	456.2
45°	1403.4	1279.3	977.3	695.6	520.9	442.9	424.4	435.1	444.8	447.4	448.3
47.5°	1545.2	1396.4	1033.0	707.0	520.9	439.4	420.8	428.9	436.8	436.0	436.8
50°	1702.8	1518.6	1085.4	714.1	517.5	435.1	417.3	423.5	428.9	424.4	425.2
52.5°	1851.7	1640.0	1127.9	716.7	511.3	429.7	413.8	419.1	421.7	415.5	415.5
55°	1999.7	1754.2	1162.4	711.5	503.2	425.2	411.2	416.4	416.4	408.4	408.4
57.5°	2137.0	1851.7	1181.8	700.8	493.6	421.7	409.2	414.6	414.6	404.0	404.0
60°	2243.3	1921.7	1182.7	684.0	482.0	417.3	408.4	414.6	413.8	403.1	402.2
62.5°	2308.0	1952.7	1162.4	660.0	470.5	412.9	407.5	413.8	413.8	402.2	401.3
65°	2308.0	1932.4	1118.2	631.7	457.1	407.5	405.8	413.8	412.0	401.3	399.6
66°	*2290.3*	*1910.2*	*1094.2*	*619.3*	*452.8*	*405.8*	*405.0*	*413.8*	*412.0*	*401.3*	*398.7*
67.5°	2241.6	1857.0	1055.2	599.0	442.1	401.3	403.1	411.2	410.2	398.7	396.9
70°	2099.8	1719.7	971.0	562.5	426.1	393.4	397.8	405.0	404.0	393.4	389.8
72.5°	1891.6	1538.9	875.3	523.6	408.4	382.7	388.1	395.2	393.4	384.5	381.0
75°	1646.1	1334.3	771.7	482.0	387.3	368.5	374.8	381.0	379.2	371.3	365.9
77.5°	1381.2	1123.4	668.8	438.5	365.0	350.8	357.1	363.3	359.7	352.6	349.1
80°	1121.6	919.6	571.4	395.2	339.4	330.5	336.6	338.4	335.8	329.6	325.1
82.5°	894.9	739.8	479.3	352.6	311.8	306.6	311.0	311.0	308.3	302.1	297.7
85°	702.5	590.1	403.1	310.1	284.4	280.9	283.5	280.9	277.3	271.1	267.5
87.5°	553.7	473.1	337.6	272.9	254.2	253.4	254.2	248.1	244.5	239.2	235.7
90°	432.3	371.3	281.8	237.4	226.8	225.9	224.2	218.0	210.0	204.7	202.0
92.5°	337.6	298.6	233.0	202.9	197.5	196.6	194.1	186.1	180.8	173.6	171.0
95°	267.5	238.3	193.2	175.5	172.7	171.9	168.4	159.5	152.4	145.4	143.5
97.5°	210.0	188.7	161.2	150.7	149.6	148.8	144.4	134.7	126.7	119.6	118.8
100°	164.8	151.6	134.7	129.4	129.4	128.5	124.0	114.2	104.6	97.5	96.5
102.5°	131.1	122.3	112.5	110.8	110.8	110.0	105.4	97.5	86.0	78.0	78.0
105°	104.6	99.2	94.0	94.8	95.7	94.8	90.3	80.7	69.2	63.0	63.0
107.5°	84.1	80.7	78.8	80.7	81.5	81.5	77.0	66.4	55.8	50.5	50.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	68.2	66.4	66.4	68.2	70.0	70.0	64.7	55.8	45.3	40.8	40.8
112.5°	55.8	54.9	55.8	59.3	60.2	59.3	54.9	46.1	36.3	33.7	33.7
115°	47.0	47.0	47.8	50.5	52.2	50.5	46.1	37.2	29.3	27.5	27.5
117.5°	39.9	39.9	40.8	43.3	44.2	42.5	38.1	30.1	23.9	23.1	23.1
120°	33.7	33.7	34.5	36.3	37.2	35.4	31.0	24.8	19.4	18.6	19.4
122.5°	29.3	29.3	30.1	31.0	31.9	30.1	25.6	19.4	16.0	16.0	16.0
125°	25.6	25.6	25.6	26.6	26.6	24.8	21.3	16.0	12.4	13.3	13.3
127.5°	22.2	22.2	22.2	22.2	22.2	20.4	16.8	12.4	10.6	11.5	11.5
130°	19.4	19.4	18.6	18.6	17.7	16.8	13.3	9.8	8.8	9.8	9.8
132.5°	16.8	16.8	16.0	15.1	14.2	13.3	10.6	7.1	7.1	7.9	7.9
135°	14.2	14.2	13.3	12.4	11.5	9.8	7.1	5.4	5.4	6.2	6.2
137.5°	11.5	11.5	10.6	9.8	7.9	7.1	5.4	3.5	4.5	5.4	5.4
140°	8.8	8.8	7.9	7.1	5.4	3.5	2.6	2.6	2.6	3.5	3.5
142.5°	7.1	7.1	6.2	4.5	2.6	1.7	0.9	0.9	1.7	2.6	2.6
145°	5.4	5.4	4.5	3.5	1.7	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	4.5	3.5	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	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)