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: P253827

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T3**

Issue Date: 3/3/2020

Report Generated By E9812814

Test Information

Test Method:	LM-79-08
Report Number:	P253827
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-10-90°)
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	LXF.LXT-AF24-50-D-U-T3
Description:	DECORATIVE POST TOP LUMINAIRE
	(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO COMPETITIVE OFFERINGS.
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5789.9 lumens
Efficiency:	N/A
Efficacy:	107.2 lumens/watt
Luminous Opening:	Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification:	Type IV - Medium - Non-Cutoff
BUG Rating:	B1 - U0 - G2

Input Watts (W):	54
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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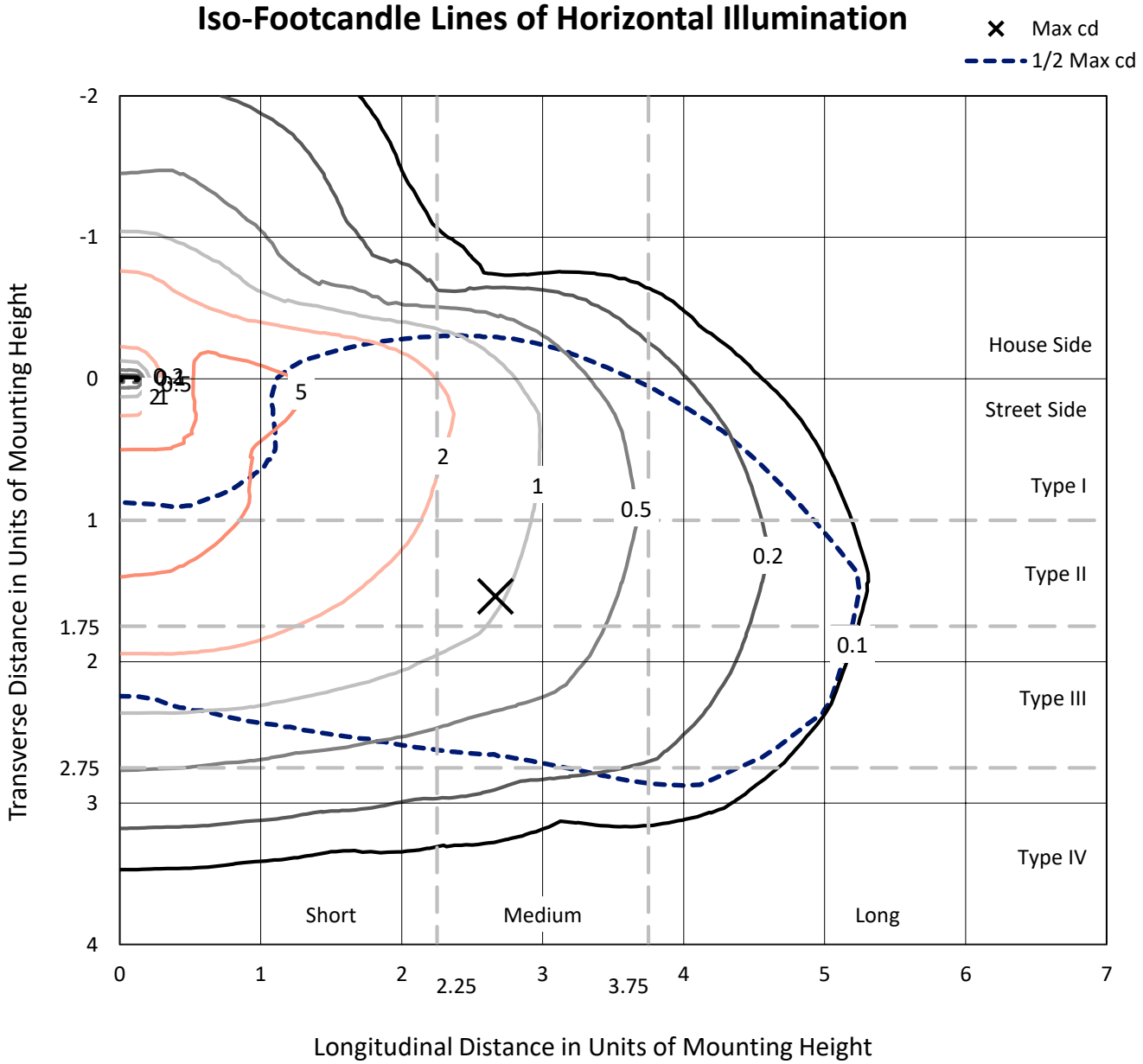
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type IV - Medium - Non-Cutoff

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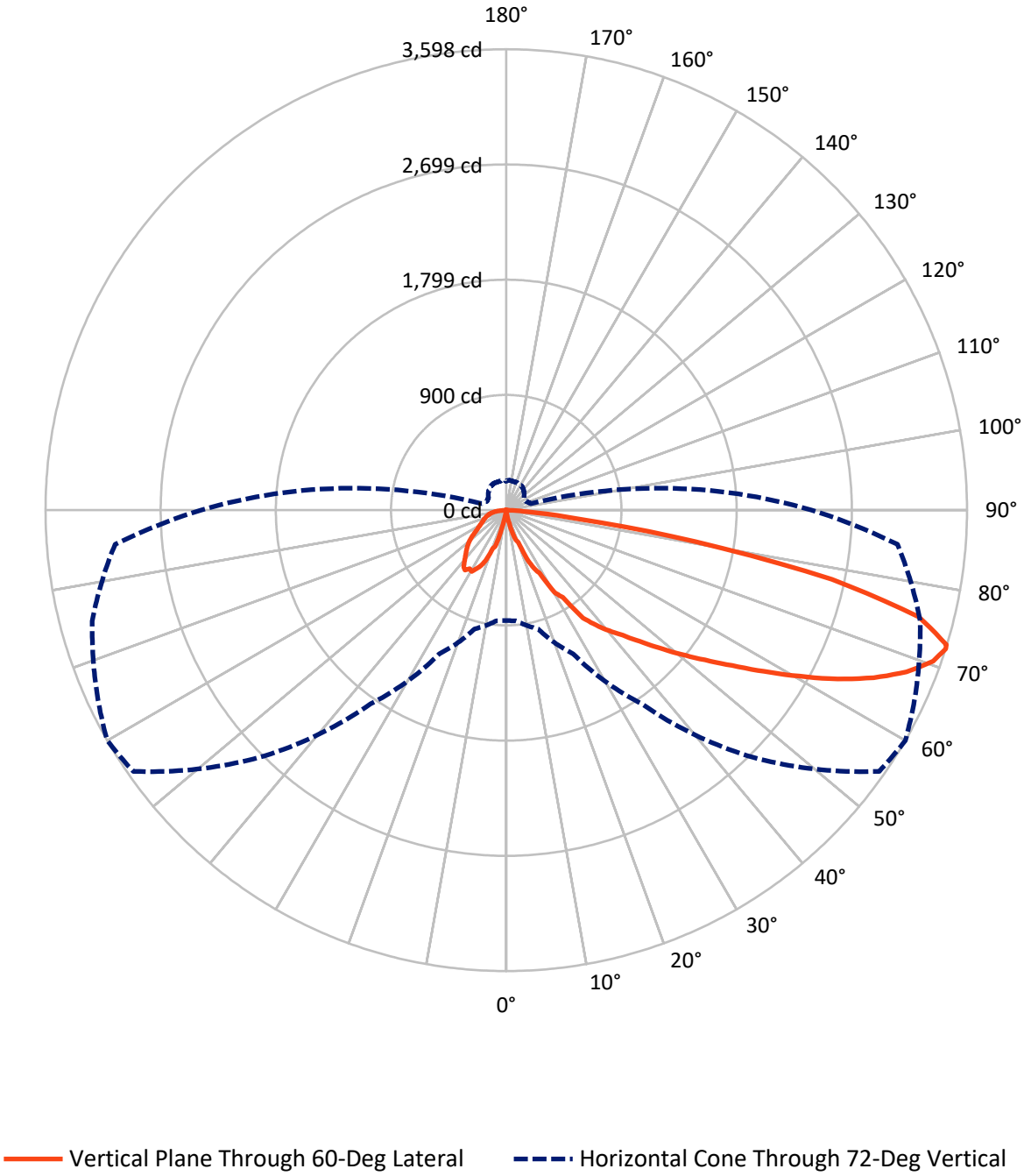
Luminous Intensity Polar Plot



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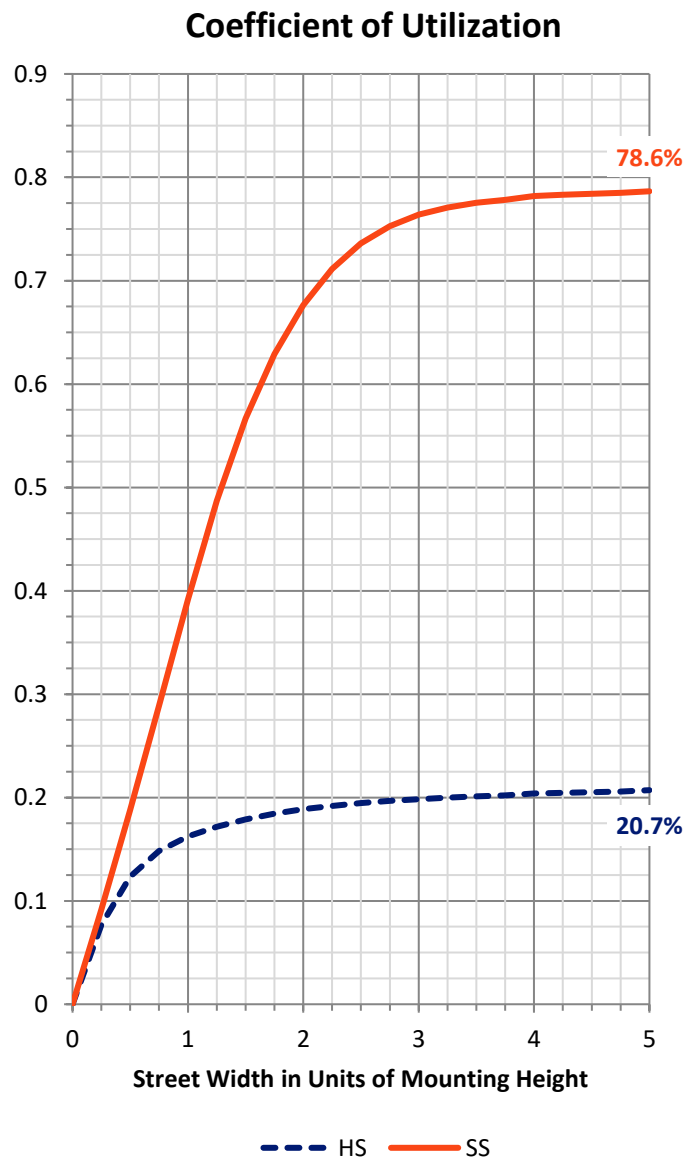
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.5	0.0	1220.5
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	4569.4	0.0	4569.4
	% Fixture	78.9	0.0	78.9
Total	Lumens	5789.9	0.0	5789.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	59.1	1.0
20°-30°	234.1	4.0
30°-40°	515.7	8.9
40°-50°	875.9	15.1
50°-60°	1311.5	22.7
60°-70°	1590.5	27.5
70°-80°	1057.1	18.3
80°-90°	142.5	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5789.9	100.0
0°-180°	5789.9	100.0



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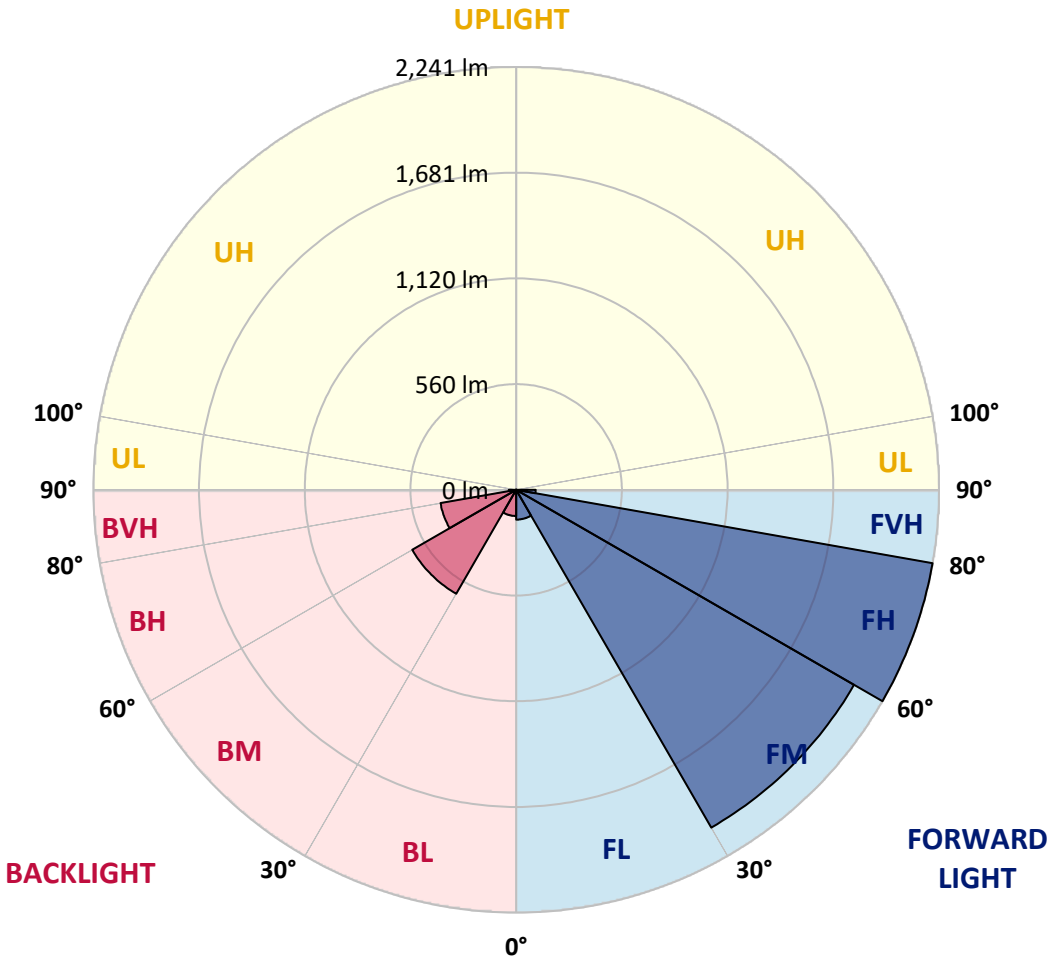
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	158.0	2.7			
FM	(30°-60°)	2067.1	35.7			
FH	(60°-80°)	2240.7	38.7			G2/5000
FVH	(80°-90°)	103.7	1.8			G2/225
BL	(0°-30°)	138.8	2.4	B1/500		
BM	(30°-60°)	636.0	11.0	B1/1000		
BH	(60°-80°)	407.0	7.0	B1/500		G1/500
BVH	(80°-90°)	38.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	*0.6*	1.3	1.3	1.3
5°	91.2	84.0	37.7	29.8	21.8	5.3	1.9	*1.9*	1.3	1.3	1.3
7.5°	101.2	101.2	100.6	101.9	101.9	92.0	23.1	*8.6*	3.3	1.9	1.3
10°	105.2	104.5	103.2	103.8	104.5	104.5	100.6	*61.5*	19.2	4.0	3.3
12.5°	189.2	188.5	184.5	134.3	111.1	109.9	111.8	*102.5*	91.2	35.1	85.3
15°	215.6	216.4	212.4	211.6	197.8	124.4	173.3	*192.5*	224.9	164.7	192.5
17.5°	258.0	262.6	239.5	232.2	227.6	248.1	246.7	*244.8*	250.7	193.8	216.4
20°	402.8	404.9	380.4	305.7	261.3	325.5	297.7	*267.9*	280.5	347.3	395.6
22.5°	466.4	468.4	451.8	428.7	414.8	357.9	380.4	*409.5*	418.1	463.7	451.8
25°	610.6	610.6	541.1	495.5	531.2	430.7	502.1	*501.5*	469.7	508.1	565.6
27.5°	748.2	745.5	728.3	679.4	598.0	631.8	565.6	*559.7*	621.9	698.6	715.1
30°	843.4	837.5	790.5	799.8	735.6	703.2	698.0	*746.9*	760.2	740.3	782.6
32.5°	1058.4	1056.5	1016.8	888.4	879.2	785.2	851.4	*811.1*	832.9	974.5	1026.7
35°	1219.9	1216.6	1132.5	1059.8	969.9	966.5	932.7	*1034.0*	1052.5	1059.8	1118.0
37.5°	1485.8	1501.7	1426.9	1174.9	1104.1	1049.9	1110.7	*1139.2*	1145.8	1199.4	1223.9
40°	1685.6	1665.1	1587.0	1394.5	1235.7	1184.2	1222.5	*1238.4*	1249.6	1324.4	1343.5
42.5°	1923.0	1905.2	1795.4	1587.0	1447.5	1369.4	1362.8	*1335.0*	1355.5	1458.7	1478.6
45°	2139.4	2128.1	2026.3	1782.2	1652.5	1536.8	1506.3	*1462.0*	1475.9	1585.7	1637.3
47.5°	2296.8	2281.0	2230.0	1989.9	1912.5	1739.2	1660.5	*1606.2*	1589.1	1728.0	1816.6
50°	2484.0	2449.0	2406.7	2186.4	2116.9	1989.2	1812.7	*1767.7*	1741.9	1891.3	2015.7
52.5°	2593.3	2533.7	2521.8	2369.7	2277.7	2207.5	1973.4	*1942.3*	1935.0	2080.6	2242.0
55°	2532.4	2519.8	2576.0	2499.3	2422.6	2359.7	2142.8	*2140.1*	2167.2	2292.2	2484.7
57.5°	2409.4	2423.9	2548.9	2564.1	2567.4	2513.8	2344.5	*2374.3*	2437.1	2537.6	2747.3
60°	2286.3	2310.7	2476.8	2580.7	2654.0	2669.3	2571.4	*2631.6*	2684.5	2767.2	3023.2
62.5°	2100.4	2115.6	2316.1	2544.3	2660.7	2804.2	2818.8	*2902.8*	2947.8	3025.2	3277.9
65°	1888.7	1890.0	2086.5	2402.1	2653.4	2904.2	3033.2	*3153.6*	3207.2	3247.5	3449.3
67.5°	1645.2	1659.8	1824.5	2169.2	2568.7	2979.5	3254.1	*3370.5*	3410.2	3350.7	3464.5
70°	1300.0	1305.9	1424.3	1736.6	2285.0	2976.9	3471.8	*3535.3*	3514.1	3381.2	3326.2
72°	*861.3*	*866.6*	*960.6*	*1237.8*	*1846.3*	*2730.9*	*3555.2*	*3598.1*	*3516.7*	*3346.7*	*3066.2*
72.5°	730.4	735.6	859.4	1098.9	1702.2	2623.1	3543.9	*3594.1*	3500.2	3326.2	2974.9
75°	270.6	275.9	319.6	496.8	934.8	1831.2	3204.5	*3327.6*	3270.0	3089.4	2356.4
77.5°	136.3	137.6	162.8	223.6	385.0	836.9	2371.0	*2600.5*	2655.4	2541.0	1617.5
80°	98.6	100.6	118.5	148.8	228.9	274.6	1184.2	*1501.1*	1701.5	1647.9	835.5
82.5°	68.1	69.5	88.0	98.6	158.1	149.6	347.3	*559.0*	768.7	750.2	316.2
85°	59.5	60.1	68.8	58.9	92.6	76.7	127.1	*166.0*	195.2	172.7	65.5
87.5°	8.0	9.3	25.8	19.8	21.8	11.3	15.9	*21.8*	21.2	15.2	6.6
90°	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.6	0.6	0.6	1.3	0.6	0.6	0.6	1.9	2.7	3.3	4.0
7.5°	1.3	1.3	1.3	1.3	1.9	4.0	31.1	103.2	112.4	121.0	118.5
10°	3.3	3.3	3.3	3.3	15.9	110.5	134.9	142.2	144.8	147.5	146.9
12.5°	78.8	90.0	27.8	16.6	101.9	143.5	148.8	154.8	159.5	164.1	163.4
15°	195.8	199.2	201.7	217.0	164.7	158.1	164.7	268.6	287.8	292.4	293.1
17.5°	217.7	221.0	226.3	290.4	300.3	223.6	273.8	293.7	296.3	297.7	298.4
20°	416.1	418.8	369.2	325.5	311.6	392.9	299.0	297.1	342.0	400.9	400.3
22.5°	458.5	461.8	437.9	471.0	367.9	394.2	376.4	390.4	411.4	410.8	411.4
25°	562.9	576.8	489.6	471.7	480.3	394.2	445.9	389.6	394.2	399.0	399.0
27.5°	732.9	735.6	686.7	555.1	472.3	482.2	418.1	394.2	445.9	449.9	450.5
30°	781.2	780.0	734.3	591.4	506.8	453.2	402.2	432.0	418.1	420.1	420.1
32.5°	1049.9	1044.5	938.8	586.2	492.9	412.8	414.1	402.2	441.2	451.8	450.5
35°	1114.0	1105.4	936.1	678.1	458.5	414.1	379.7	405.5	407.5	409.5	408.9
37.5°	1196.0	1180.2	920.2	635.8	467.1	383.7	366.5	371.7	397.6	400.9	399.0
40°	1305.9	1270.8	921.5	590.1	431.3	373.1	345.3	361.2	365.2	355.9	350.6
42.5°	1436.8	1375.4	917.6	543.1	404.9	359.9	337.4	334.1	338.1	326.8	323.5
45°	1581.8	1490.4	909.0	508.7	378.4	342.7	318.2	310.9	316.9	308.3	306.3
47.5°	1749.1	1606.2	912.9	480.9	350.0	324.2	303.0	293.7	302.3	292.4	291.0
50°	1946.3	1720.7	911.6	445.2	318.2	304.3	288.5	279.2	286.4	279.2	278.5
52.5°	2150.7	1841.1	891.7	396.9	286.4	287.1	278.5	275.9	293.1	277.8	275.9
55°	2357.7	1974.0	870.6	341.4	262.0	273.2	268.6	282.4	304.9	277.2	273.8
57.5°	2561.5	2112.3	823.6	292.4	243.5	258.0	272.5	283.8	301.0	277.2	270.0
60°	2763.3	2243.3	723.7	255.3	226.3	247.5	271.9	279.9	280.5	273.2	268.6
62.5°	2925.3	2342.6	577.6	229.6	213.0	240.2	266.0	267.9	266.0	267.3	264.6
65°	2987.5	2339.2	426.1	209.1	200.4	230.9	256.0	260.0	257.4	263.3	259.3
67.5°	2924.0	2231.4	304.9	191.8	190.5	219.6	242.1	250.7	250.1	262.6	258.0
70°	2703.8	1976.0	231.5	178.0	179.3	205.7	229.6	240.2	240.8	252.1	246.1
72°	*2382.9*	*1672.4*	*199.2*	*165.4*	*169.4*	*197.1*	*220.3*	*230.9*	*230.3*	*234.9*	*226.9*
72.5°	2283.6	1578.4	192.5	162.0	166.0	194.5	217.7	227.6	226.9	230.3	222.3
75°	1704.1	1056.5	165.4	146.2	148.8	179.9	205.1	211.0	209.1	204.4	200.4
77.5°	1039.3	553.7	140.9	132.3	134.3	161.4	188.5	189.2	185.3	178.0	174.0
80°	481.6	243.5	121.0	115.1	117.1	142.2	164.1	162.8	158.1	151.5	144.2
82.5°	193.1	118.5	92.0	92.6	96.0	117.1	140.2	132.3	129.0	141.6	105.2
85°	54.2	52.3	54.2	54.9	60.9	77.4	101.2	89.3	87.4	71.4	66.8
87.5°	2.7	3.3	4.0	7.3	13.2	16.6	29.2	24.4	25.8	11.9	6.6
90°	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)