

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: P254262

Luminaire Tested: **LXF.LXT-AF24-80-D-U-5WQ-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-18)  
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-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8289.9 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

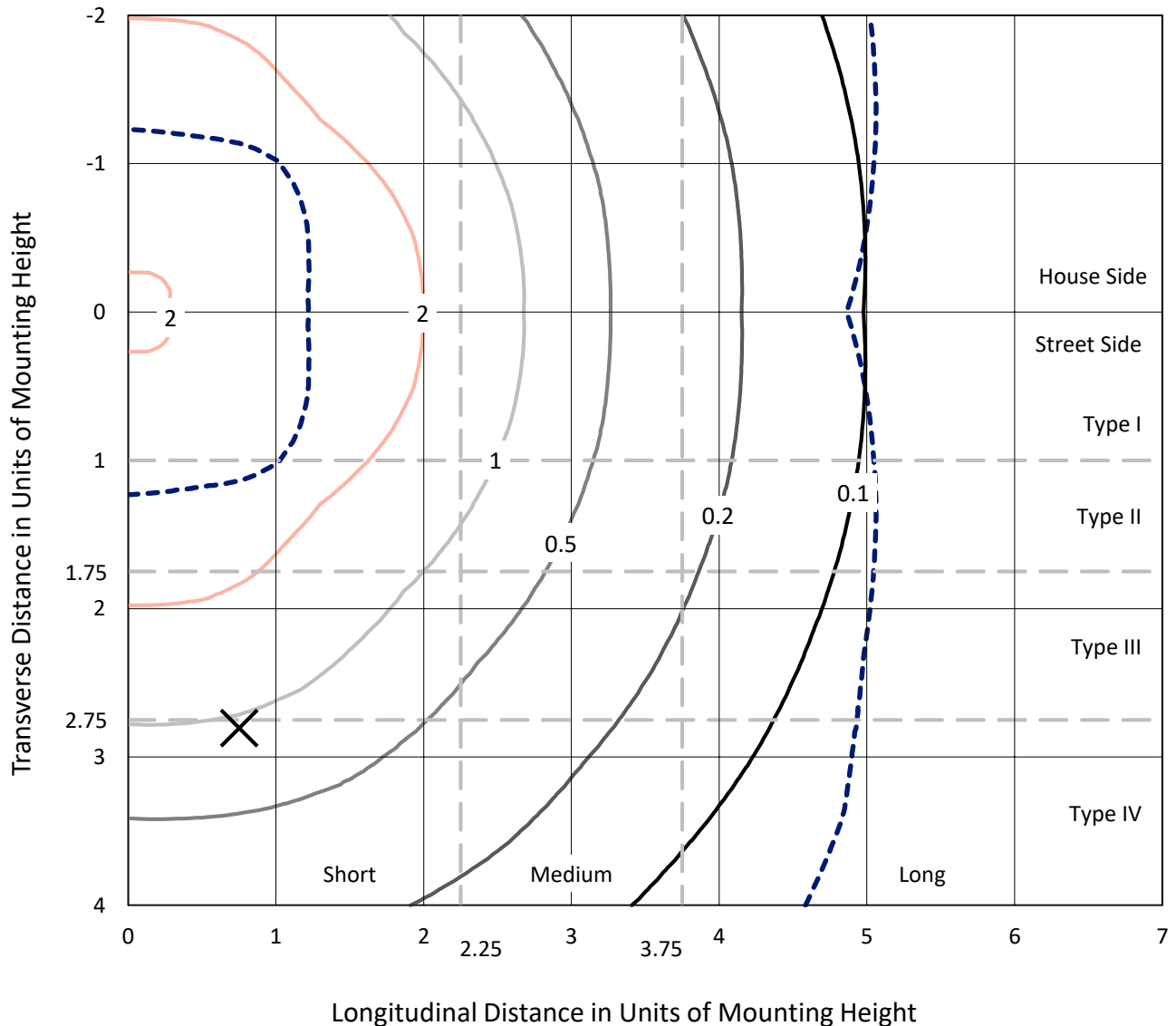
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

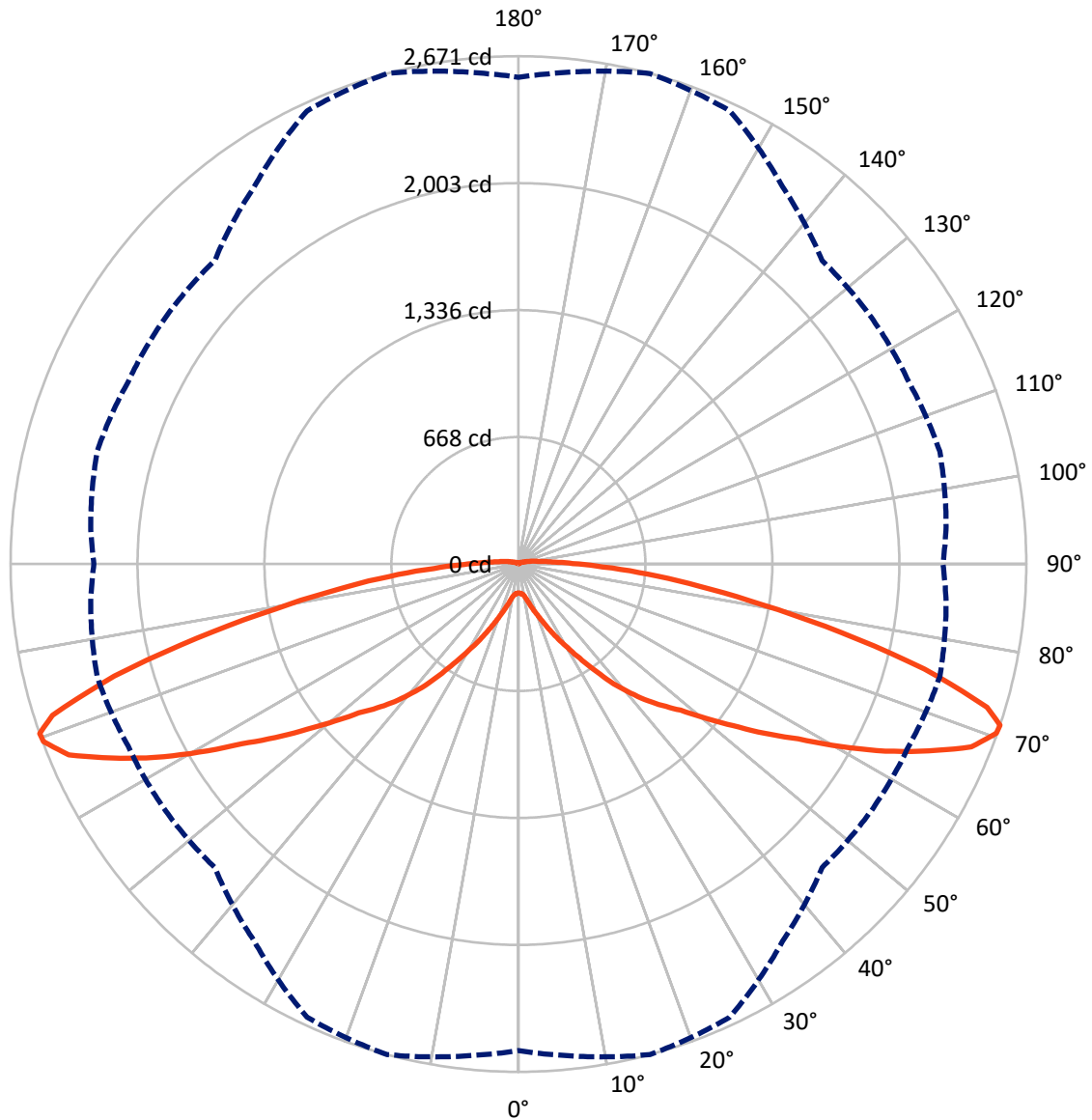
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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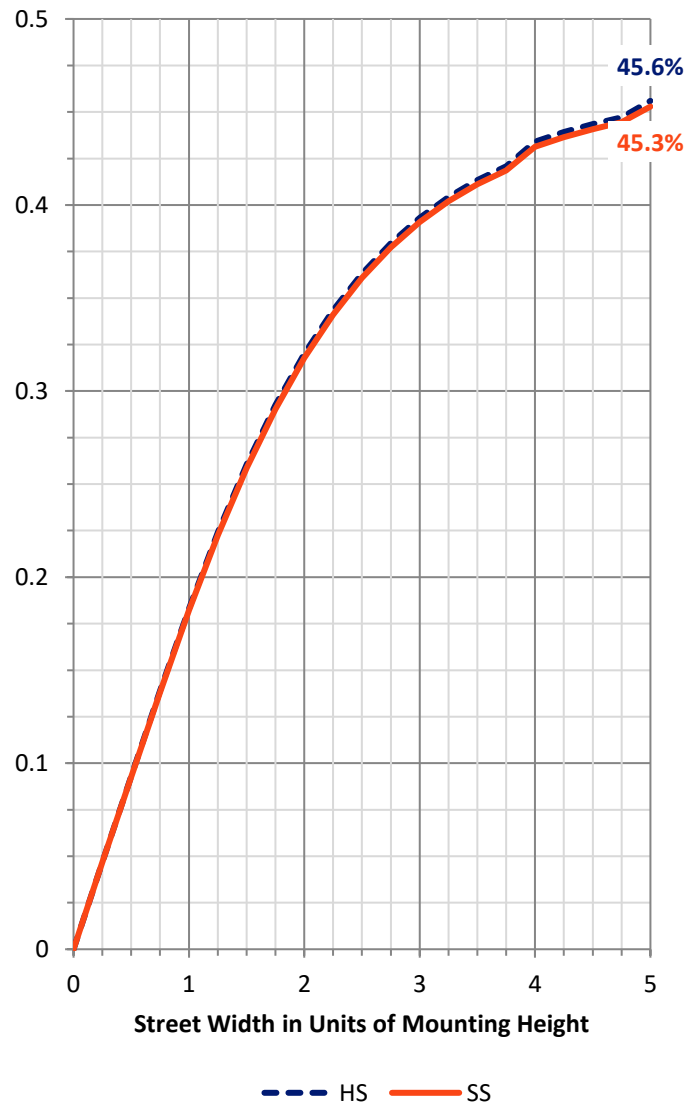
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3972.0	173.0	4145.0
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3972.0	173.0	4145.0
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	7944.0	345.9	8289.9
	% Fixture	95.8	4.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	0.2
10°-20°	61.5	0.7
20°-30°	173.9	2.1
30°-40°	405.3	4.9
40°-50°	756.6	9.1
50°-60°	1350.0	16.3
60°-70°	2213.3	26.7
70°-80°	2070.3	25.0
80°-90°	897.9	10.8
90°-100°	226.8	2.7
100°-110°	66.2	0.8
110°-120°	27.2	0.3
120°-130°	14.4	0.2
130°-140°	7.9	0.1
140°-150°	3.0	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7944.0	95.8
0°-180°	8289.9	100.0

**Coefficient of Utilization**



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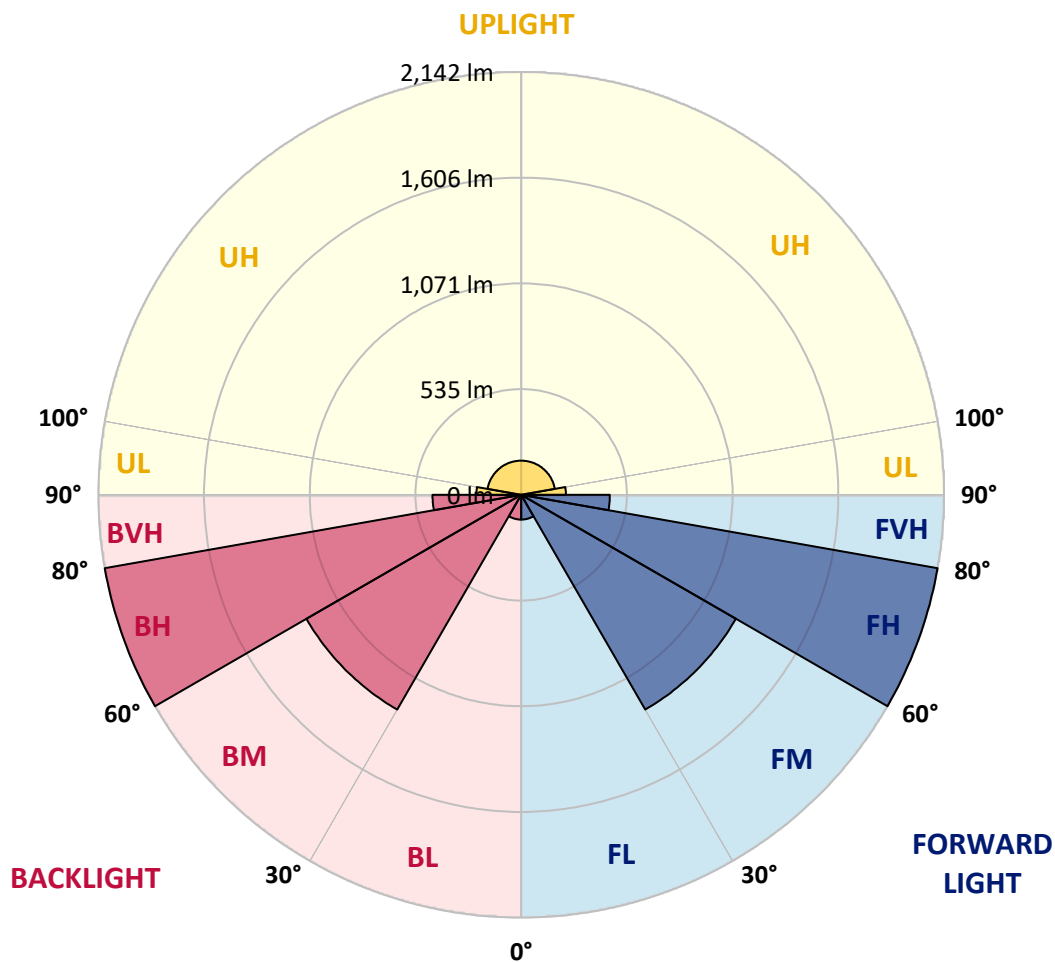
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.3	1.5			
FM (30°-60°)	1256.0	15.2			
FH (60°-80°)	2141.8	25.8			G2/5000
FVH (80°-90°)	449.0	5.4			G3/500
BL (0°-30°)	125.3	1.5	B1/500		
BM (30°-60°)	1256.0	15.2	B2/2500		
BH (60°-80°)	2141.8	25.8	B3/2500		G2/5000
BVH (80°-90°)	449.0	5.4			G3/500
UL (90°-100°)	226.8	2.7		U3/500	
UH (100°-180°)	173.0	2.1		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7
2.5°	153.6	153.6	153.6	154.6	154.6	154.6	153.6	153.6	152.7	152.7	152.7
5°	156.5	156.5	156.5	156.5	156.5	156.5	155.6	155.6	154.6	154.6	154.6
7.5°	161.1	161.1	161.1	161.1	161.1	160.2	159.3	158.4	158.4	158.4	158.4
10°	171.4	171.4	170.5	169.6	168.7	166.7	166.7	165.8	165.8	165.8	166.7
12.5°	193.0	193.0	190.2	185.6	179.9	178.0	177.1	178.9	181.8	182.7	184.5
15°	221.2	221.2	217.4	209.9	201.4	194.0	195.8	201.4	206.1	209.0	210.8
17.5°	255.8	255.8	250.2	239.9	227.7	223.0	222.1	229.6	237.0	242.6	246.4
20°	294.2	294.2	286.7	272.6	260.4	257.7	256.8	262.4	273.6	282.0	285.8
22.5°	341.1	342.0	330.7	312.0	299.8	294.2	293.3	300.7	318.5	330.7	335.4
25°	399.2	399.2	387.0	360.7	343.9	334.5	336.3	350.5	375.7	392.6	395.4
27.5°	463.8	462.0	446.0	417.9	393.5	379.5	384.1	405.7	436.6	462.0	465.6
30°	535.9	534.1	511.6	481.6	446.9	430.0	437.6	468.5	510.7	546.3	551.0
32.5°	619.4	617.5	589.3	551.0	505.0	482.5	496.6	540.6	592.2	638.1	644.7
35°	719.6	717.7	680.3	626.9	570.6	543.5	562.2	615.6	676.5	731.8	740.2
37.5°	824.6	824.6	785.2	716.8	642.8	609.1	629.6	690.6	762.7	817.0	826.4
40°	920.1	920.1	880.8	814.3	724.2	679.3	700.8	763.6	828.3	877.0	886.4
42.5°	1008.2	1011.0	974.5	906.0	809.6	758.0	771.1	826.4	892.9	947.3	956.7
45°	1078.5	1084.1	1061.6	997.0	900.4	839.5	844.2	907.1	985.7	1042.9	1054.2
47.5°	1163.7	1164.6	1148.8	1087.8	997.0	930.5	934.2	1008.2	1094.4	1153.5	1159.1
50°	1284.6	1287.4	1273.4	1204.0	1108.5	1033.5	1052.2	1129.0	1235.9	1298.6	1300.6
52.5°	1418.6	1421.4	1411.1	1347.4	1237.8	1165.7	1194.7	1283.7	1389.6	1442.1	1440.1
55°	1559.2	1565.7	1571.4	1512.3	1396.1	1322.1	1361.4	1454.2	1552.6	1604.1	1598.5
57.5°	1715.6	1720.3	1735.3	1682.9	1578.8	1506.7	1556.3	1649.1	1749.3	1799.1	1790.6
60°	1930.2	1937.7	1949.8	1877.7	1770.0	1712.8	1767.1	1865.6	1967.6	1997.6	1986.4
62.5°	2125.1	2133.6	2167.2	2112.9	1972.4	1912.4	1984.5	2079.1	2164.5	2178.5	2159.8
65°	2315.3	2324.7	2370.6	2323.7	2184.1	2098.9	2174.8	2252.5	2332.1	2342.5	2323.7
67.5°	2488.6	2513.9	2569.2	2504.6	2347.2	2249.7	2292.8	2355.5	2425.8	2413.7	2390.2
70°	2577.6	2610.5	2666.6	2621.7	2426.8	2279.6	2303.1	2321.9	2355.5	2338.8	2318.1
71°	2559.8	2593.6	2671.3	2630.1	2422.1	2258.2	2264.7	2265.6	2293.8	2258.2	2232.8
72.5°	2432.4	2468.1	2577.6	2583.3	2375.3	2196.3	2167.2	2143.8	2128.9	2065.1	2045.5
75°	2036.1	2082.9	2205.7	2276.0	2159.8	1985.4	1934.9	1856.1	1813.1	1739.9	1735.3
77.5°	1584.4	1615.3	1735.3	1842.1	1810.2	1697.8	1640.7	1563.8	1518.9	1461.7	1427.9
80°	1180.6	1190.9	1299.6	1420.5	1457.0	1412.1	1369.8	1300.6	1247.2	1191.8	1162.8
82.5°	839.5	859.2	957.6	1088.8	1175.0	1176.9	1146.8	1069.1	1009.1	951.0	928.5
85°	567.8	587.5	683.0	821.7	933.2	981.0	951.0	848.9	758.9	691.5	677.4
87.5°	356.1	374.8	444.2	567.8	714.9	788.0	753.3	626.9	524.7	462.9	450.7
90°	233.3	244.6	285.8	366.3	492.9	594.0	554.7	436.6	349.5	294.2	288.6
92.5°	161.1	164.9	190.2	237.0	328.0	409.5	380.4	294.2	229.6	190.2	184.5
95°	115.3	119.0	134.9	163.1	219.2	268.9	253.0	199.6	156.5	129.3	125.5
97.5°	85.3	88.1	102.1	120.9	154.6	180.9	169.6	141.5	114.3	93.7	90.8
100°	66.5	67.4	79.7	93.7	115.3	129.3	120.9	105.9	88.1	73.0	71.2
102.5°	52.5	53.4	62.8	74.1	89.0	99.3	92.8	81.5	68.4	58.1	57.2
105°	41.2	42.1	48.7	59.0	71.2	77.7	73.0	63.7	52.5	45.0	45.0
107.5°	32.8	33.8	38.5	46.9	57.2	62.8	59.0	49.6	41.2	35.6	35.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	27.2	27.2	30.9	37.4	46.9	51.6	47.8	39.4	32.8	29.1	28.1
112.5°	22.5	22.5	25.3	30.9	38.5	42.1	39.4	31.8	26.2	23.4	23.4
115°	18.7	19.6	20.7	26.2	32.8	35.6	32.8	27.2	21.6	19.6	19.6
117.5°	16.9	16.9	18.7	22.5	28.1	30.9	28.1	23.4	18.7	17.8	17.8
120°	15.0	15.0	16.0	18.7	24.3	26.2	24.3	19.6	16.9	16.0	16.0
122.5°	14.0	14.0	14.0	16.9	20.7	23.4	21.6	17.8	15.0	14.0	14.0
125°	13.1	13.1	13.1	15.0	18.7	19.6	18.7	16.0	13.1	13.1	13.1
127.5°	13.1	13.1	13.1	14.0	16.0	17.8	16.9	14.0	12.2	12.2	12.2
130°	12.2	12.2	12.2	13.1	14.0	15.0	14.0	13.1	12.2	12.2	12.2
132.5°	11.3	11.3	11.3	11.3	12.2	13.1	12.2	11.3	11.3	11.3	11.3
135°	10.3	10.3	10.3	9.4	10.3	11.3	10.3	9.4	9.4	10.3	10.3
137.5°	9.4	9.4	8.4	8.4	8.4	9.4	8.4	8.4	8.4	8.4	9.4
140°	8.4	8.4	7.5	7.5	7.5	7.5	6.5	6.5	6.5	7.5	7.5
142.5°	7.5	6.5	6.5	5.6	5.6	5.6	5.6	4.7	5.6	6.5	6.5
145°	5.6	5.6	5.6	4.7	4.7	4.7	3.8	3.8	4.7	4.7	4.7
147.5°	4.7	4.7	3.8	3.8	2.8	2.8	2.8	2.8	3.8	3.8	3.8
150°	3.8	3.8	2.8	2.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
152.5°	2.8	2.8	1.8	1.8	1.8	0.9	0.9	0.9	1.8	1.8	1.8
155°	1.8	1.8	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	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)