

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: P254261

Luminaire Tested: **LXF.LXT-AF24-70-D-U-5WQ-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254261  
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-AF24-70-D-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 930mA 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: 7584.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

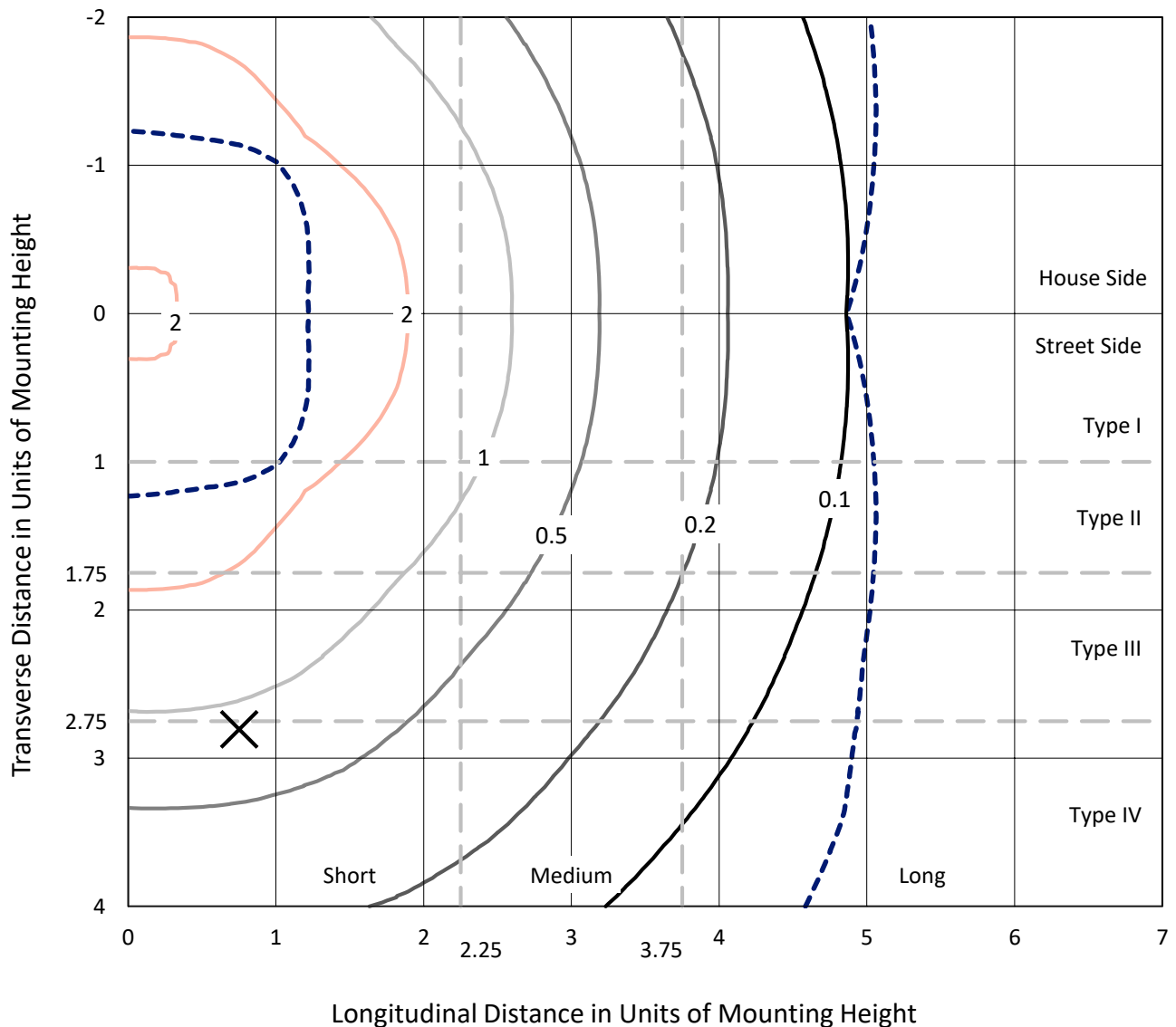
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P254261  
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-A

### Iso-Footcandle Lines of Horizontal Illumination

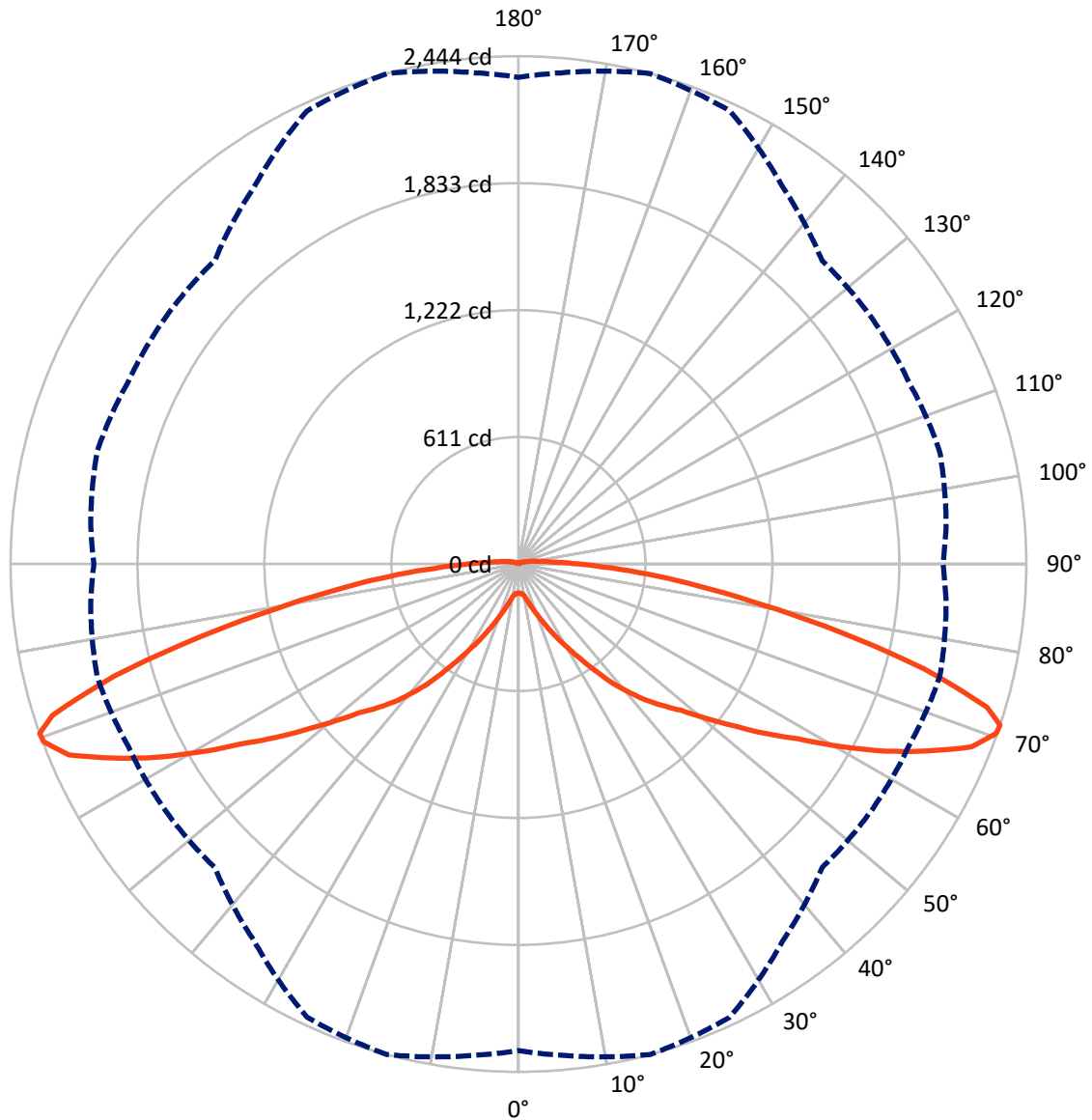
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-A

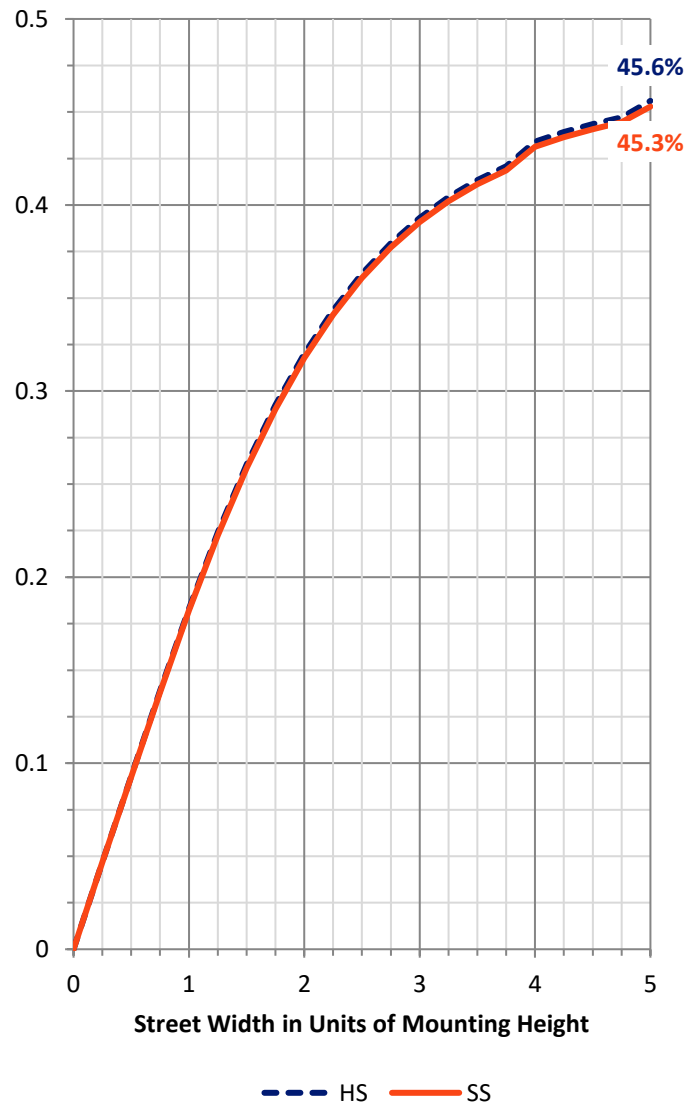
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3633.8	158.3	3792.1
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3633.8	158.3	3792.1
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	7267.7	316.5	7584.2
	% Fixture	95.8	4.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.9	0.2
10°-20°	56.2	0.7
20°-30°	159.1	2.1
30°-40°	370.8	4.9
40°-50°	692.2	9.1
50°-60°	1235.1	16.3
60°-70°	2024.8	26.7
70°-80°	1894.0	25.0
80°-90°	821.5	10.8
90°-100°	207.5	2.7
100°-110°	60.5	0.8
110°-120°	24.9	0.3
120°-130°	13.2	0.2
130°-140°	7.3	0.1
140°-150°	2.8	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7267.7	95.8
0°-180°	7584.2	100.0



REPORT NUMBER: P254261

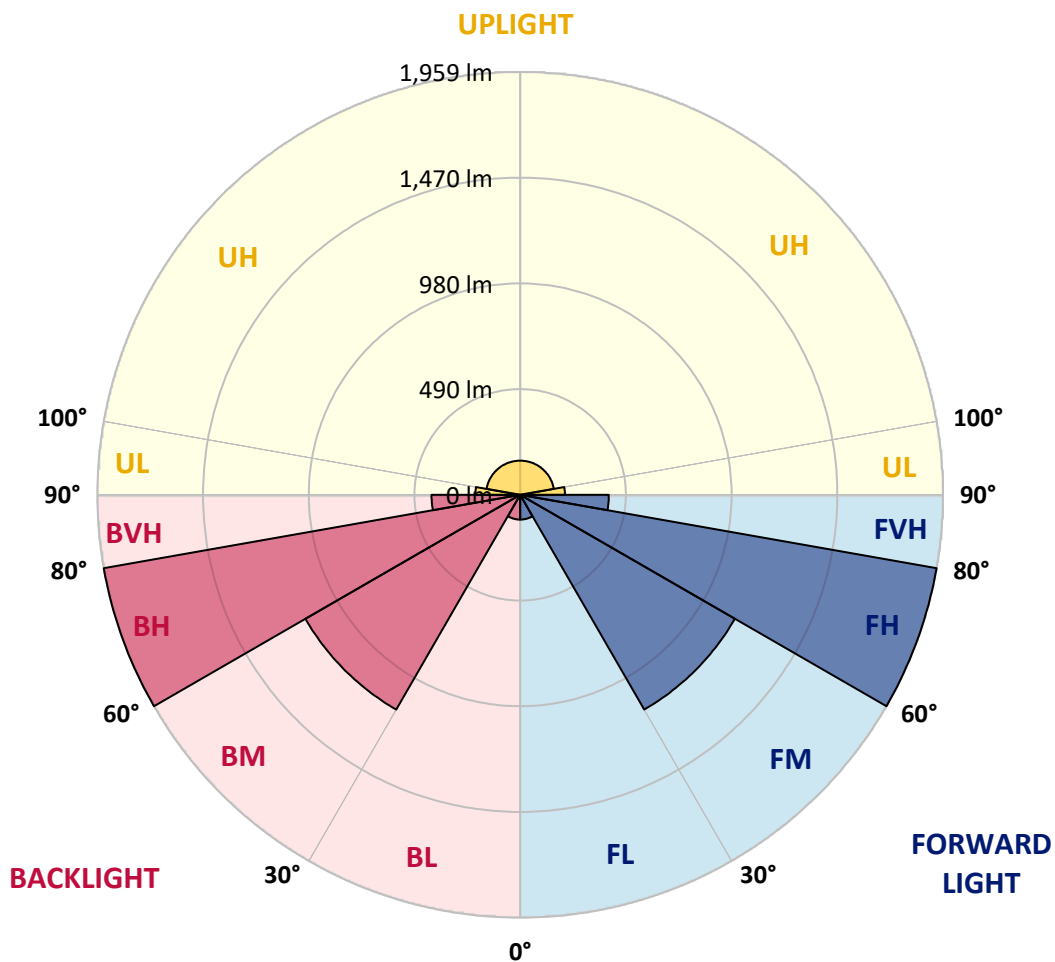
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.6	1.5			
FM (30°-60°)	1149.0	15.2			
FH (60°-80°)	1959.4	25.8			G2/5000
FVH (80°-90°)	410.7	5.4			G3/500
BL (0°-30°)	114.6	1.5	B1/500		
BM (30°-60°)	1149.0	15.2	B2/2500		
BH (60°-80°)	1959.4	25.8	B3/2500		G2/5000
BVH (80°-90°)	410.7	5.4			G3/500
UL (90°-100°)	207.5	2.7		U3/500	
UH (100°-180°)	158.3	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°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7
2.5°	140.6	140.6	140.6	141.5	141.5	141.5	140.6	140.6	139.7	139.7	139.7
5°	143.1	143.1	143.1	143.1	143.1	143.1	142.3	142.3	141.5	141.5	141.5
7.5°	147.4	147.4	147.4	147.4	147.4	146.6	145.8	144.8	144.8	144.8	144.8
10°	156.8	156.8	156.0	155.2	154.3	152.6	152.6	151.7	151.7	151.7	152.6
12.5°	176.6	176.6	174.0	169.7	164.6	162.9	162.0	163.8	166.3	167.2	168.9
15°	202.3	202.3	198.9	192.0	184.3	177.5	179.1	184.3	188.6	191.2	192.8
17.5°	234.1	234.1	228.8	219.4	208.3	204.0	203.2	210.0	216.9	222.0	225.5
20°	269.1	269.1	262.3	249.5	238.3	235.7	234.9	240.0	250.3	258.0	261.5
22.5°	312.0	312.9	302.6	285.4	274.4	269.1	268.3	275.2	291.4	302.6	306.9
25°	365.2	365.2	354.0	330.0	314.6	306.1	307.7	320.6	343.7	359.2	361.7
27.5°	424.3	422.6	408.1	382.3	360.1	347.2	351.5	371.1	399.5	422.6	426.1
30°	490.3	488.6	468.0	440.6	408.9	393.4	400.3	428.6	467.2	499.7	504.0
32.5°	566.6	564.9	539.2	504.0	462.1	441.5	454.3	494.6	541.8	583.8	589.7
35°	658.4	656.6	622.4	573.5	522.0	497.2	514.3	563.2	618.9	669.5	677.2
37.5°	754.3	754.3	718.3	655.8	588.1	557.2	576.0	631.8	697.8	747.5	756.1
40°	841.8	841.8	805.8	744.9	662.7	621.4	641.2	698.7	757.8	802.3	810.9
42.5°	922.4	925.0	891.5	828.9	740.6	693.5	705.5	756.1	816.9	866.6	875.2
45°	986.6	991.8	971.2	912.1	823.8	768.0	772.3	829.8	901.8	954.1	964.3
47.5°	1064.7	1065.5	1051.0	995.2	912.1	851.2	854.7	922.4	1001.3	1055.3	1060.4
50°	1175.3	1177.8	1164.9	1101.5	1014.1	945.5	962.6	1033.0	1130.7	1188.1	1189.8
52.5°	1297.8	1300.4	1291.0	1232.7	1132.4	1066.3	1092.9	1174.3	1271.2	1319.2	1317.6
55°	1426.4	1432.4	1437.6	1383.5	1277.3	1209.5	1245.5	1330.3	1420.4	1467.5	1462.4
57.5°	1569.5	1573.8	1587.5	1539.5	1444.4	1378.4	1423.8	1508.6	1600.4	1645.8	1638.2
60°	1765.8	1772.7	1783.8	1717.8	1619.2	1567.0	1616.7	1706.7	1800.2	1827.6	1817.3
62.5°	1944.1	1951.9	1982.7	1933.0	1804.4	1749.6	1815.5	1902.2	1980.1	1993.0	1975.8
65°	2118.1	2126.7	2168.8	2125.9	1998.1	1920.2	1989.5	2060.7	2133.6	2143.0	2125.9
67.5°	2276.8	2299.9	2350.4	2291.3	2147.3	2058.2	2097.6	2155.1	2219.3	2208.1	2186.8
70°	2358.2	2388.2	2439.6	2398.5	2220.2	2085.6	2107.1	2124.2	2155.1	2139.6	2120.8
71°	2341.9	2372.7	2443.9	2406.2	2215.9	2065.8	2071.9	2072.7	2098.5	2065.8	2042.7
72.5°	2225.3	2257.9	2358.2	2363.3	2173.1	2009.3	1982.7	1961.3	1947.6	1889.3	1871.3
75°	1862.7	1905.6	2017.9	2082.1	1975.8	1816.5	1770.1	1698.1	1658.7	1591.8	1587.5
77.5°	1449.5	1477.9	1587.5	1685.3	1656.2	1553.2	1501.0	1430.7	1389.6	1337.2	1306.4
80°	1080.1	1089.5	1189.0	1299.6	1333.0	1291.8	1253.2	1189.8	1140.9	1090.4	1063.8
82.5°	768.0	786.0	876.1	996.0	1074.9	1076.7	1049.2	978.0	923.2	870.0	849.5
85°	519.5	537.5	624.9	751.8	853.8	897.5	870.0	776.6	694.4	632.6	619.8
87.5°	325.7	342.9	406.3	519.5	654.1	720.9	689.2	573.5	480.1	423.5	412.4
90°	213.5	223.7	261.5	335.1	450.9	543.5	507.5	399.5	319.8	269.1	264.0
92.5°	147.4	150.9	174.0	216.9	300.0	374.6	348.0	269.1	210.0	174.0	168.9
95°	105.5	108.8	123.5	149.1	200.6	246.0	231.5	182.6	143.1	118.3	114.9
97.5°	78.1	80.6	93.4	110.6	141.5	165.4	155.2	129.4	104.5	85.7	83.2
100°	60.9	61.7	72.8	85.7	105.5	118.3	110.6	96.9	80.6	66.9	65.2
102.5°	48.0	48.9	57.4	67.7	81.4	90.8	84.9	74.6	62.6	53.2	52.3
105°	37.7	38.6	44.6	54.0	65.2	71.2	66.9	58.3	48.0	41.1	41.1
107.5°	30.0	30.9	35.2	42.9	52.3	57.4	54.0	45.4	37.7	32.5	32.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	24.9	24.9	28.3	34.3	42.9	47.2	43.7	36.0	30.0	26.6	25.7
112.5°	20.6	20.6	23.1	28.3	35.2	38.6	36.0	29.2	24.0	21.4	21.4
115°	17.2	18.0	18.8	24.0	30.0	32.5	30.0	24.9	19.7	18.0	18.0
117.5°	15.4	15.4	17.2	20.6	25.7	28.3	25.7	21.4	17.2	16.3	16.3
120°	13.7	13.7	14.5	17.2	22.3	24.0	22.3	18.0	15.4	14.5	14.5
122.5°	12.9	12.9	12.9	15.4	18.8	21.4	19.7	16.3	13.7	12.9	12.9
125°	12.0	12.0	12.0	13.7	17.2	18.0	17.2	14.5	12.0	12.0	12.0
127.5°	12.0	12.0	12.0	12.9	14.5	16.3	15.4	12.9	11.2	11.2	11.2
130°	11.2	11.2	11.2	12.0	12.9	13.7	12.9	12.0	11.2	11.2	11.2
132.5°	10.3	10.3	10.3	10.3	11.2	12.0	11.2	10.3	10.3	10.3	10.3
135°	9.4	9.4	9.4	8.6	9.4	10.3	9.4	8.6	8.6	9.4	9.4
137.5°	8.6	8.6	7.7	7.7	7.7	8.6	7.7	7.7	7.7	7.7	8.6
140°	7.7	7.7	6.9	6.9	6.9	6.9	6.0	6.0	6.0	6.9	6.9
142.5°	6.9	6.0	6.0	5.1	5.1	5.1	5.1	4.3	5.1	6.0	6.0
145°	5.1	5.1	5.1	4.3	4.3	4.3	3.5	3.5	4.3	4.3	4.3
147.5°	4.3	4.3	3.5	3.5	2.6	2.6	2.6	2.6	3.5	3.5	3.5
150°	3.5	3.5	2.6	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6
152.5°	2.6	2.6	1.7	1.7	1.7	0.8	0.8	0.8	1.7	1.7	1.7
155°	1.7	1.7	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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)