

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: P266198

Luminaire Tested: **LXF.LXT-AF24-90-D-U-5WQ-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266198  
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-AF24-90-D-U-5WQ-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA 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: 7590.7 lumens  
Efficiency: N/A  
Efficacy: 80.8 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): 94  
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

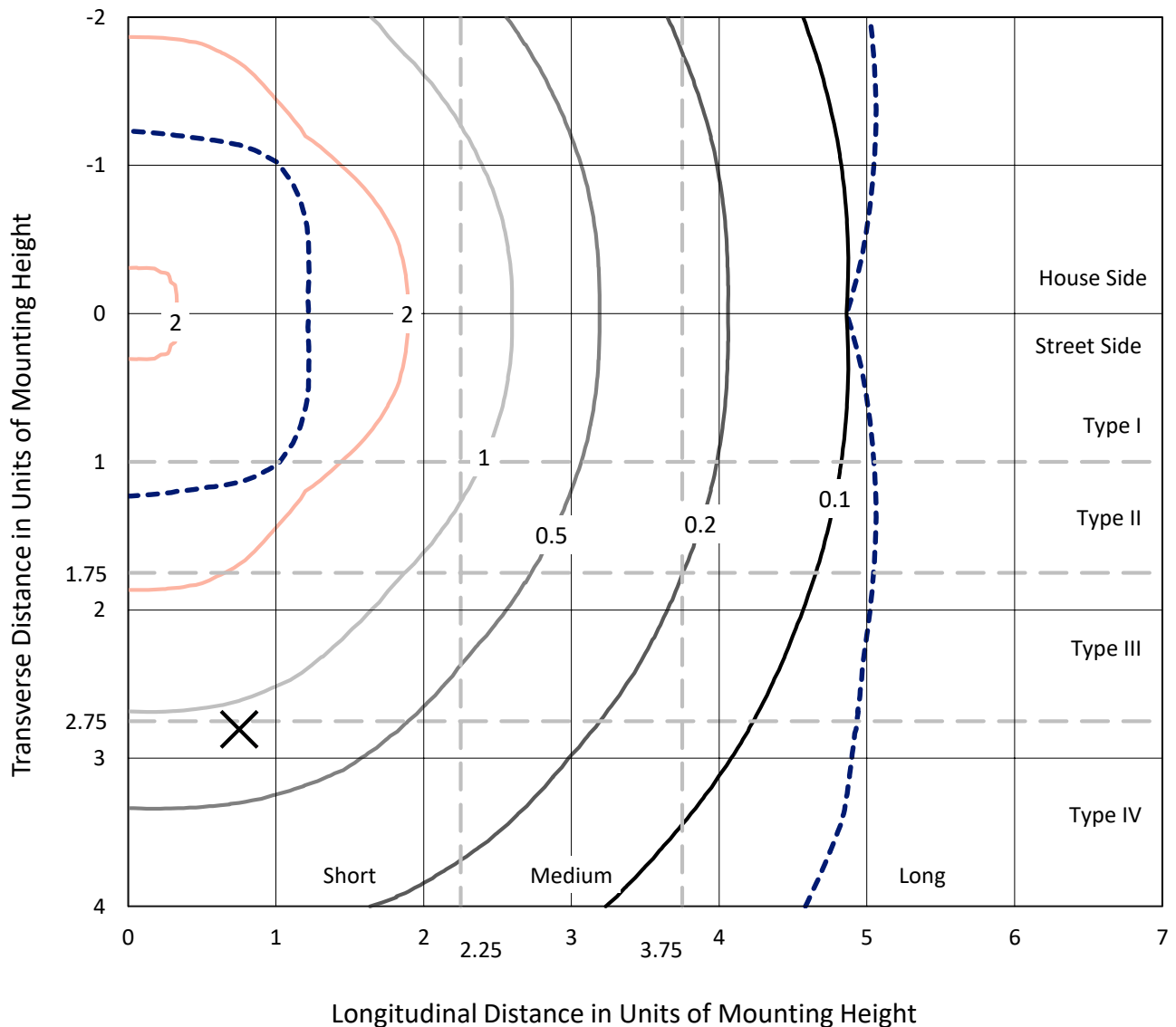


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### Iso-Footcandle Lines of Horizontal Illumination

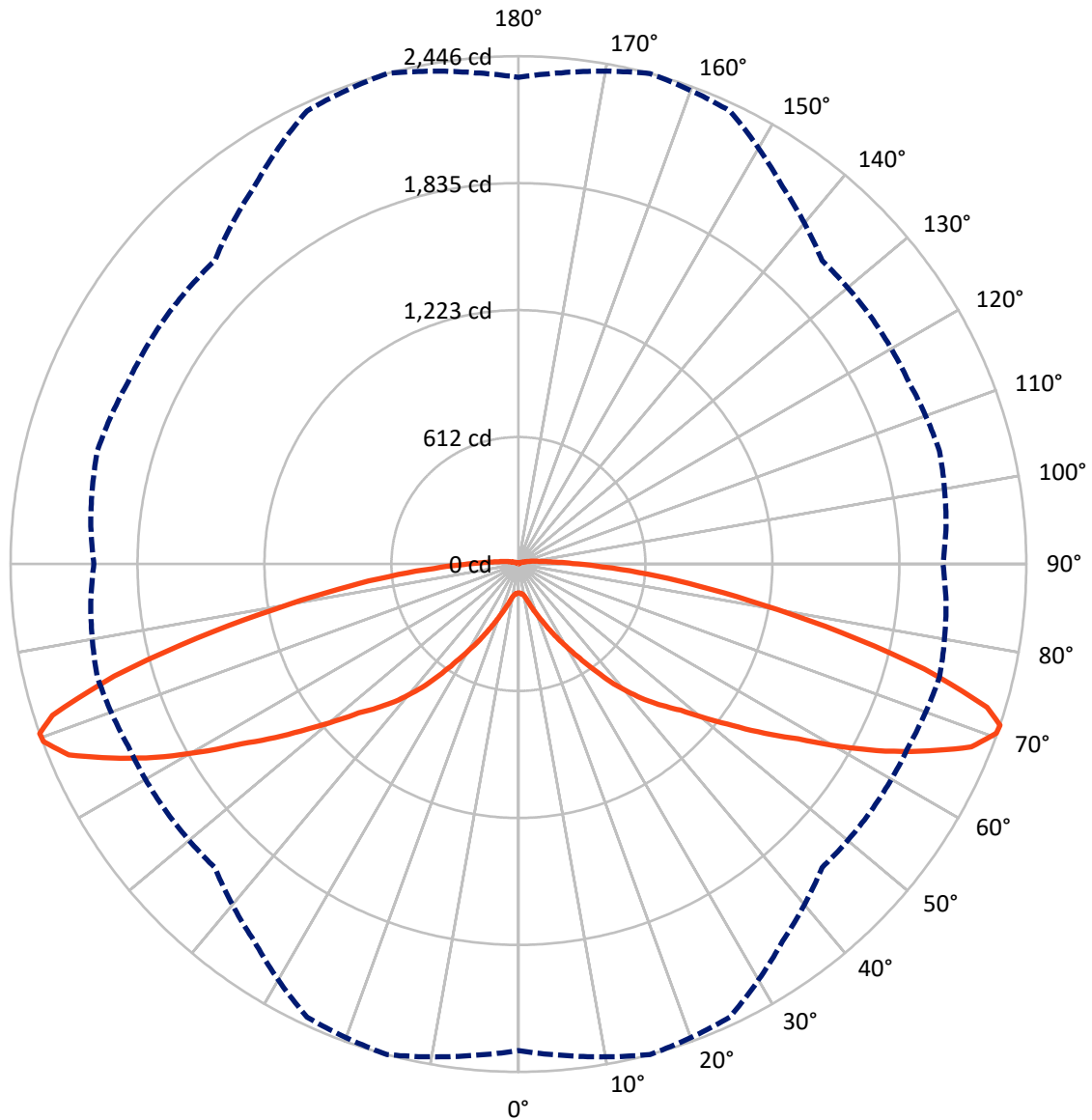
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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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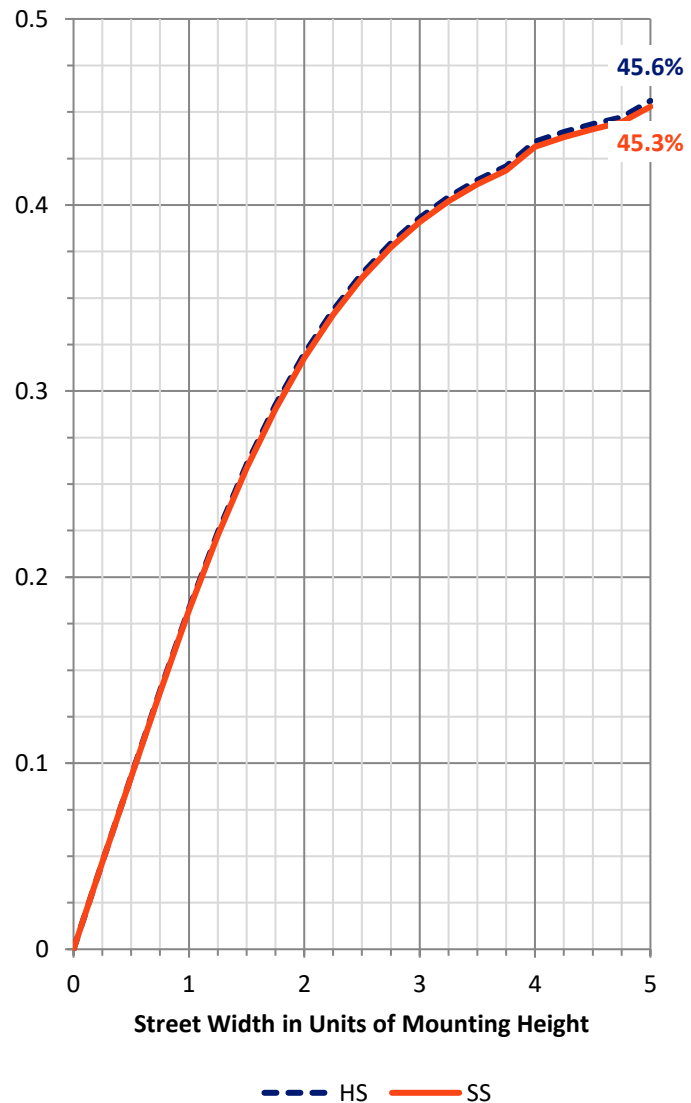
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3637.0	158.4	3795.4
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3637.0	158.4	3795.4
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	7274.0	316.7	7590.7
	% Fixture	95.8	4.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.0	0.2
10°-20°	56.3	0.7
20°-30°	159.2	2.1
30°-40°	371.1	4.9
40°-50°	692.8	9.1
50°-60°	1236.2	16.3
60°-70°	2026.6	26.7
70°-80°	1895.6	25.0
80°-90°	822.2	10.8
90°-100°	207.7	2.7
100°-110°	60.6	0.8
110°-120°	24.9	0.3
120°-130°	13.1	0.2
130°-140°	7.2	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°	7274.0	95.8
0°-180°	7590.7	100.0



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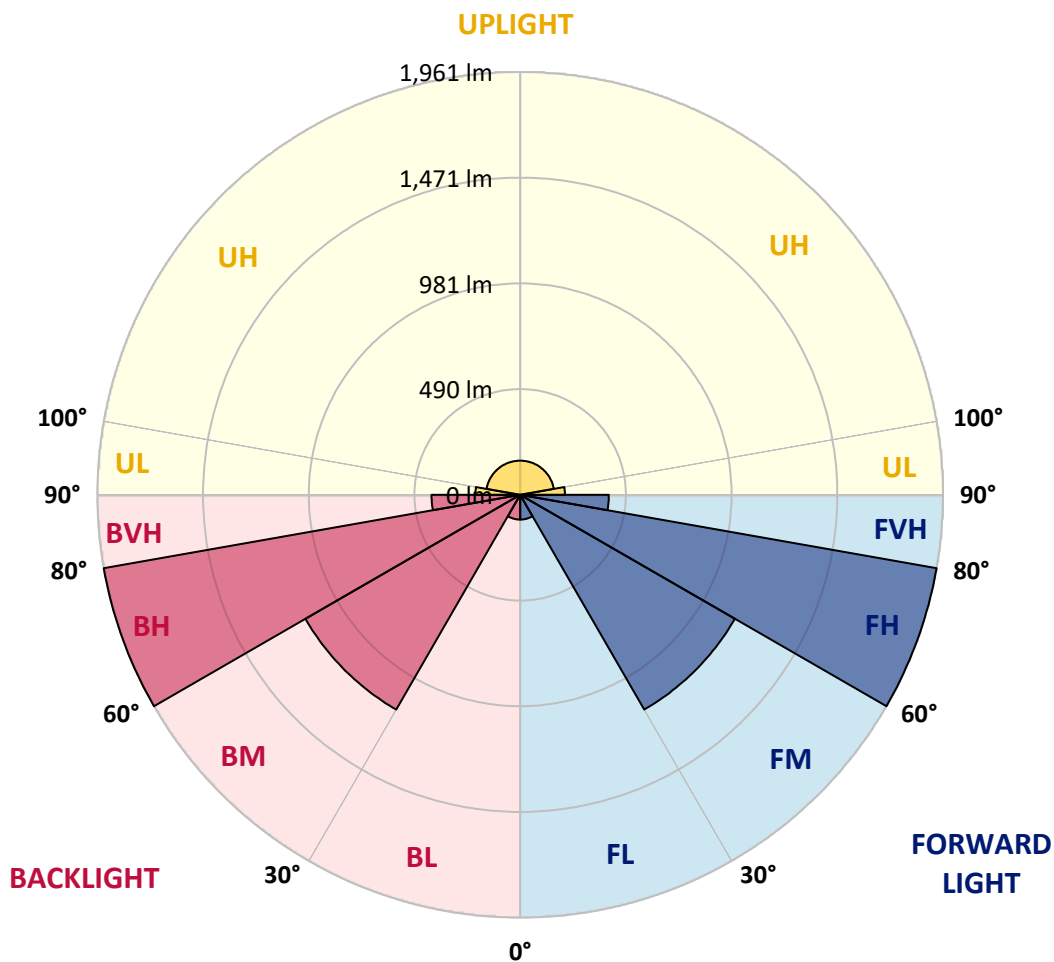
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.7	1.5			
FM (30°-60°)	1150.0	15.2			
FH (60°-80°)	1961.1	25.8			G2/5000
FVH (80°-90°)	411.1	5.4			G3/500
BL (0°-30°)	114.7	1.5	B1/500		
BM (30°-60°)	1150.0	15.2	B2/2500		
BH (60°-80°)	1961.1	25.8	B3/2500		G2/5000
BVH (80°-90°)	411.1	5.4			G3/500
UL (90°-100°)	207.7	2.7		U3/500	
UH (100°-180°)	158.4	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°	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9
2.5°	140.8	140.8	140.8	141.6	141.6	141.6	140.8	140.8	139.9	139.9	139.9
5°	143.3	143.3	143.3	143.3	143.3	143.3	142.4	142.4	141.6	141.6	141.6
7.5°	147.6	147.6	147.6	147.6	147.6	146.8	145.9	144.9	144.9	144.9	144.9
10°	157.1	157.1	156.1	155.2	154.4	152.7	152.7	151.9	151.9	151.9	152.7
12.5°	176.7	176.7	174.2	169.9	164.7	163.0	162.1	163.9	166.5	167.4	169.1
15°	202.5	202.5	199.1	192.1	184.4	177.5	179.3	184.4	188.7	191.2	193.0
17.5°	234.2	234.2	229.1	219.6	208.4	204.2	203.3	210.3	217.1	222.2	225.7
20°	269.4	269.4	262.6	249.6	238.5	236.0	235.0	240.2	250.5	258.3	261.6
22.5°	312.3	313.1	302.9	285.8	274.5	269.4	268.6	275.4	291.7	302.9	307.1
25°	365.5	365.5	354.3	330.2	314.9	306.3	307.9	320.9	344.1	359.5	362.0
27.5°	424.7	423.0	408.4	382.7	360.3	347.5	351.7	371.4	399.8	423.0	426.4
30°	490.7	489.0	468.5	441.0	409.3	393.7	400.6	429.0	467.6	500.1	504.5
32.5°	567.1	565.5	539.6	504.5	462.4	441.8	454.7	495.1	542.2	584.3	590.2
35°	658.8	657.2	622.9	573.9	522.5	497.7	514.8	563.6	619.4	670.0	677.9
37.5°	754.9	754.9	719.0	656.3	588.6	557.7	576.5	632.2	698.4	748.2	756.7
40°	842.5	842.5	806.5	745.6	663.2	622.0	641.7	699.2	758.3	803.1	811.6
42.5°	923.2	925.8	892.2	829.7	741.3	694.1	706.1	756.7	817.6	867.5	875.9
45°	987.4	992.6	972.1	912.9	824.6	768.7	773.0	830.6	902.5	954.9	965.1
47.5°	1065.6	1066.5	1051.8	996.1	912.9	852.0	855.4	923.2	1002.1	1056.1	1061.3
50°	1176.3	1178.8	1166.0	1102.5	1014.9	946.4	963.5	1033.8	1131.7	1189.1	1190.9
52.5°	1298.9	1301.6	1292.1	1233.7	1133.3	1067.2	1093.9	1175.4	1272.4	1320.4	1318.7
55°	1427.6	1433.7	1438.7	1384.7	1278.4	1210.6	1246.6	1331.6	1421.7	1468.8	1463.7
57.5°	1571.0	1575.2	1588.9	1541.0	1445.6	1379.5	1425.2	1510.1	1601.8	1647.3	1639.5
60°	1767.3	1774.2	1785.4	1719.4	1620.7	1568.4	1618.0	1708.1	1801.7	1829.2	1818.9
62.5°	1945.9	1953.5	1984.4	1934.7	1806.0	1751.1	1817.1	1903.8	1981.9	1994.7	1977.6
65°	2120.0	2128.7	2170.7	2127.7	1999.8	1921.8	1991.4	2062.5	2135.5	2145.0	2127.7
67.5°	2278.7	2301.8	2352.5	2293.4	2149.1	2060.0	2099.3	2156.9	2221.2	2210.1	2188.6
70°	2360.2	2390.3	2441.8	2400.6	2222.0	2087.4	2109.0	2126.0	2156.9	2141.5	2122.5
71°	2343.9	2374.8	2446.1	2408.3	2217.8	2067.7	2073.6	2074.5	2100.2	2067.7	2044.5
72.5°	2227.3	2259.9	2360.2	2365.3	2174.9	2011.0	1984.4	1962.9	1949.3	1890.9	1873.0
75°	1864.3	1907.2	2019.6	2084.0	1977.6	1818.0	1771.6	1699.7	1660.2	1593.2	1588.9
77.5°	1450.9	1479.1	1588.9	1686.7	1657.6	1554.6	1502.2	1432.0	1390.8	1338.5	1307.6
80°	1081.0	1090.5	1190.0	1300.7	1334.2	1292.9	1254.4	1190.9	1141.9	1091.4	1064.8
82.5°	768.7	786.7	876.8	996.9	1075.9	1077.5	1050.2	979.0	924.0	870.8	850.2
85°	519.8	537.9	625.5	752.4	854.5	898.2	870.8	777.4	695.0	633.1	620.3
87.5°	326.1	343.2	406.7	519.8	654.7	721.6	689.8	573.9	480.5	423.8	412.7
90°	213.6	223.9	261.6	335.4	451.3	544.0	507.9	399.8	320.1	269.4	264.2
92.5°	147.6	150.9	174.2	217.1	300.4	375.0	348.4	269.4	210.3	174.2	169.1
95°	105.6	109.0	123.5	149.3	200.9	246.2	231.7	182.7	143.3	118.3	115.0
97.5°	78.1	80.7	93.6	110.8	141.6	165.6	155.2	129.5	104.7	85.8	83.3
100°	60.9	61.8	72.9	85.8	105.6	118.3	110.8	96.9	80.7	67.0	65.1
102.5°	48.1	48.9	57.5	67.8	81.4	91.0	84.9	74.6	62.6	53.2	52.3
105°	37.8	38.5	44.6	54.1	65.1	71.2	67.0	58.3	48.1	41.2	41.2
107.5°	30.1	30.9	35.2	42.8	52.3	57.5	54.1	45.5	37.8	32.6	32.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	25.0	25.0	28.2	34.3	42.8	47.3	43.7	36.0	30.1	26.6	25.7
112.5°	20.7	20.7	23.1	28.2	35.2	38.5	36.0	29.1	24.1	21.5	21.5
115°	17.2	18.1	18.9	24.1	30.1	32.6	30.1	25.0	19.8	18.1	18.1
117.5°	15.5	15.5	17.2	20.7	25.7	28.2	25.7	21.5	17.2	16.3	16.3
120°	13.7	13.7	14.6	17.2	22.3	24.1	22.3	18.1	15.5	14.6	14.6
122.5°	12.8	12.8	12.8	15.5	18.9	21.5	19.8	16.3	13.7	12.8	12.8
125°	11.9	11.9	11.9	13.7	17.2	18.1	17.2	14.6	11.9	11.9	11.9
127.5°	11.9	11.9	11.9	12.8	14.6	16.3	15.5	12.8	11.1	11.1	11.1
130°	11.1	11.1	11.1	11.9	12.8	13.7	12.8	11.9	11.1	11.1	11.1
132.5°	10.3	10.3	10.3	10.3	11.1	11.9	11.1	10.3	10.3	10.3	10.3
135°	9.4	9.4	9.4	8.5	9.4	10.3	9.4	8.5	8.5	9.4	9.4
137.5°	8.5	8.5	7.7	7.7	7.7	8.5	7.7	7.7	7.7	7.7	8.5
140°	7.7	7.7	6.8	6.8	6.8	6.8	6.0	6.0	6.0	6.8	6.8
142.5°	6.8	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	2.5	2.5	2.5	2.5	3.5	3.5	3.5
150°	3.5	3.5	2.5	2.5	1.6	1.6	1.6	1.6	2.5	2.5	2.5
152.5°	2.5	2.5	1.6	1.6	1.6	0.9	0.9	0.9	1.6	1.6	1.6
155°	1.6	1.6	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)