

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: P266230

Luminaire Tested: **LXF.LXT-AF24-100-D-U-5WQ-TL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-5WQ-TL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7746.8 lumens  
Efficiency: N/A  
Efficacy: 80.7 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): 96  
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

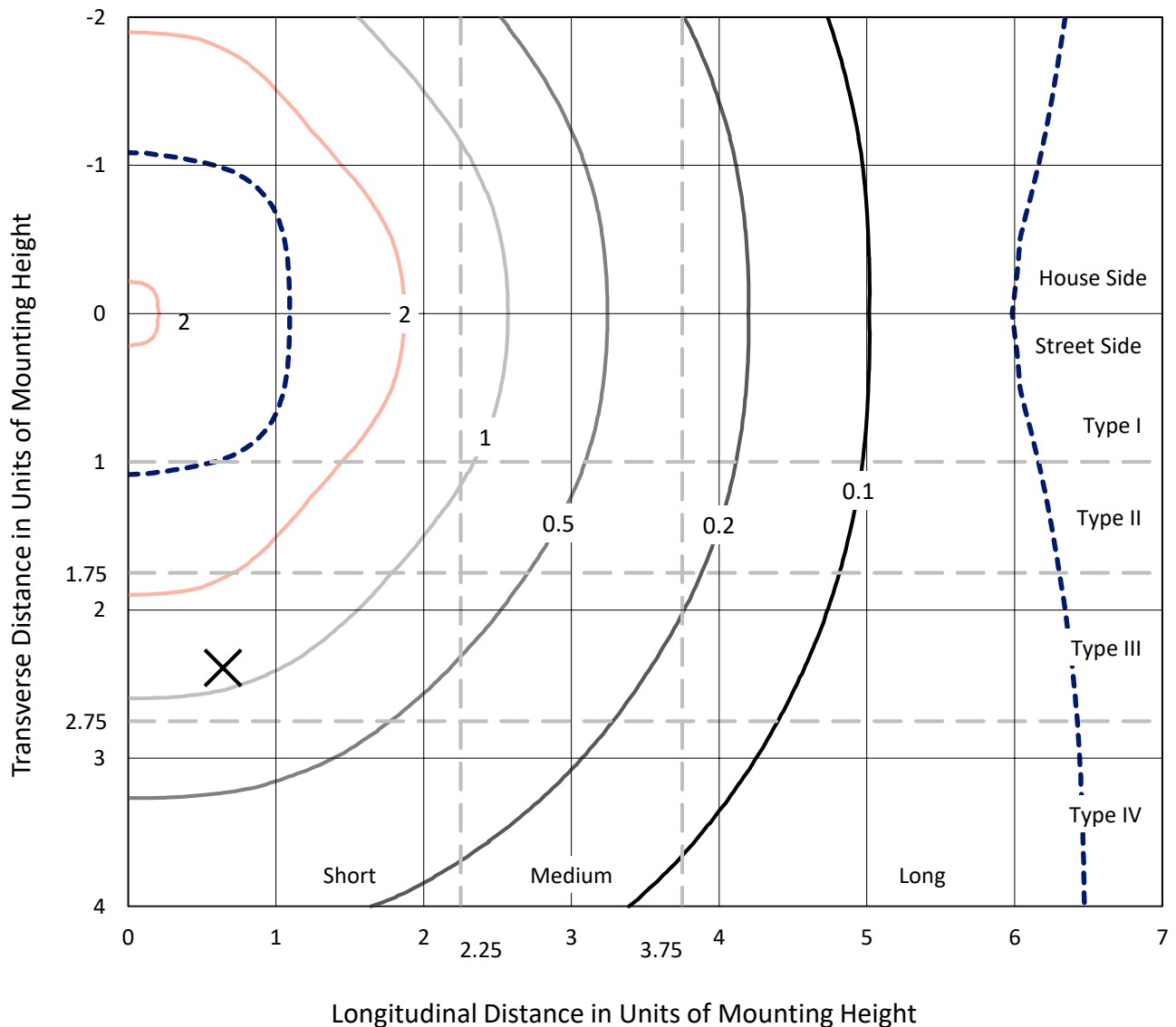


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

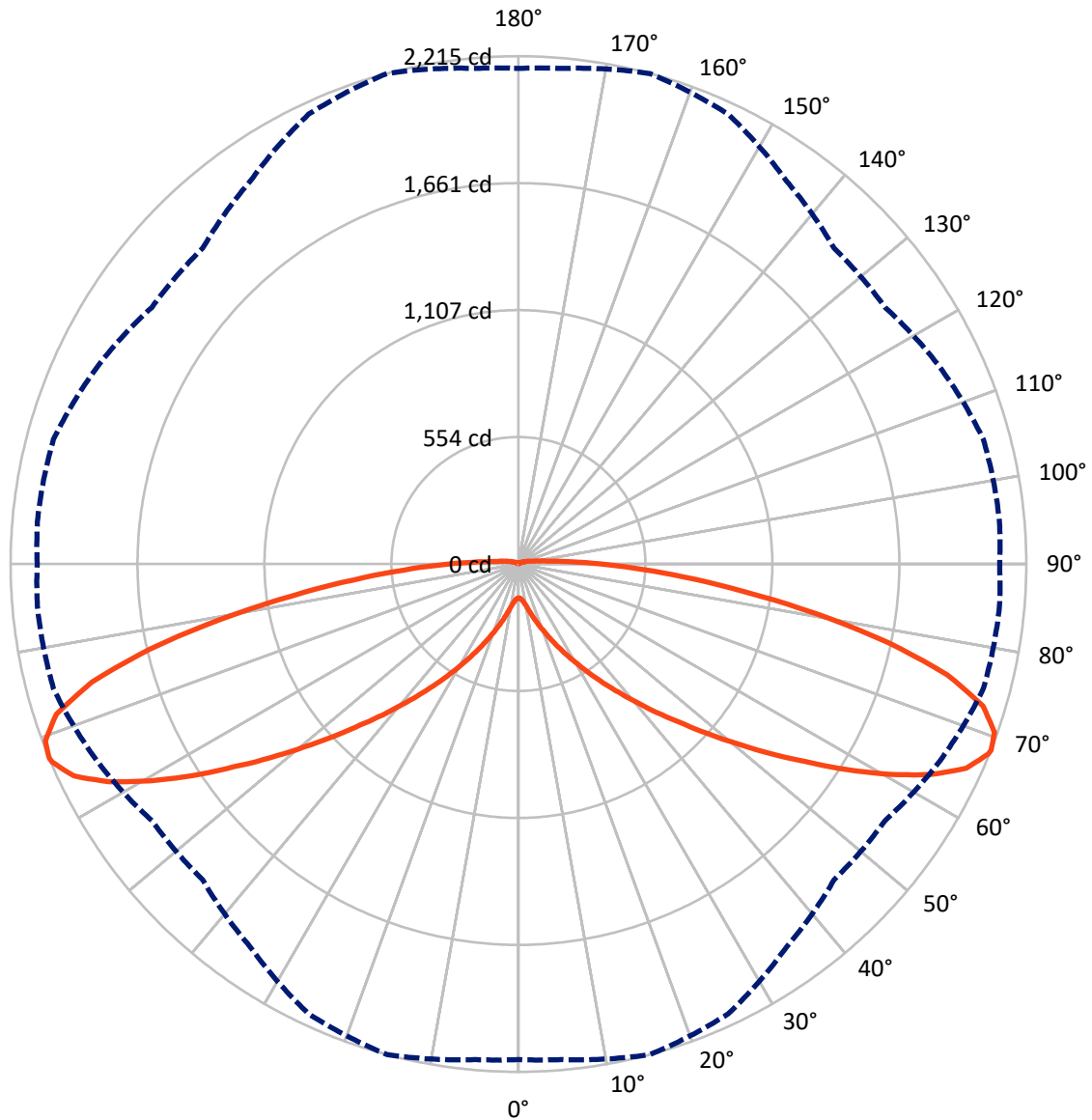


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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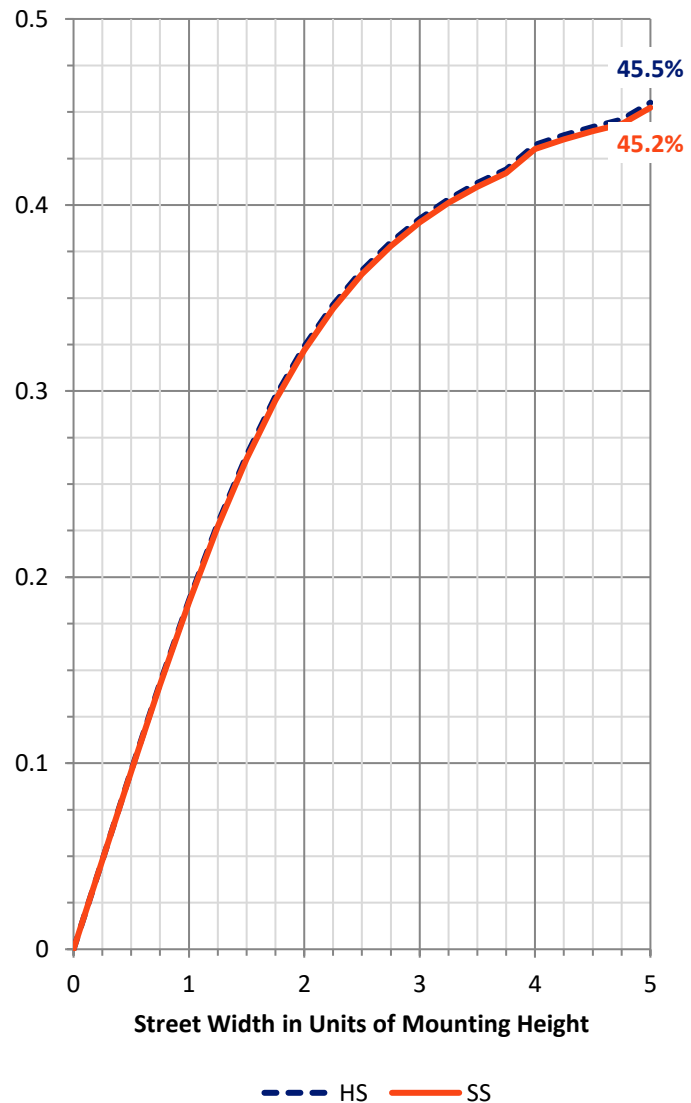
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3718.4	155.0	3873.4
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3718.4	155.0	3873.4
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	7436.8	310.1	7746.8
	% Fixture	96.0	4.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	0.2
10°-20°	70.8	0.9
20°-30°	186.7	2.4
30°-40°	391.8	5.1
40°-50°	735.6	9.5
50°-60°	1299.8	16.8
60°-70°	1960.4	25.3
70°-80°	1900.1	24.5
80°-90°	875.8	11.3
90°-100°	208.4	2.7
100°-110°	58.2	0.8
110°-120°	24.5	0.3
120°-130°	11.0	0.1
130°-140°	5.2	0.1
140°-150°	2.2	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7436.8	96.0
0°-180°	7746.8	100.0



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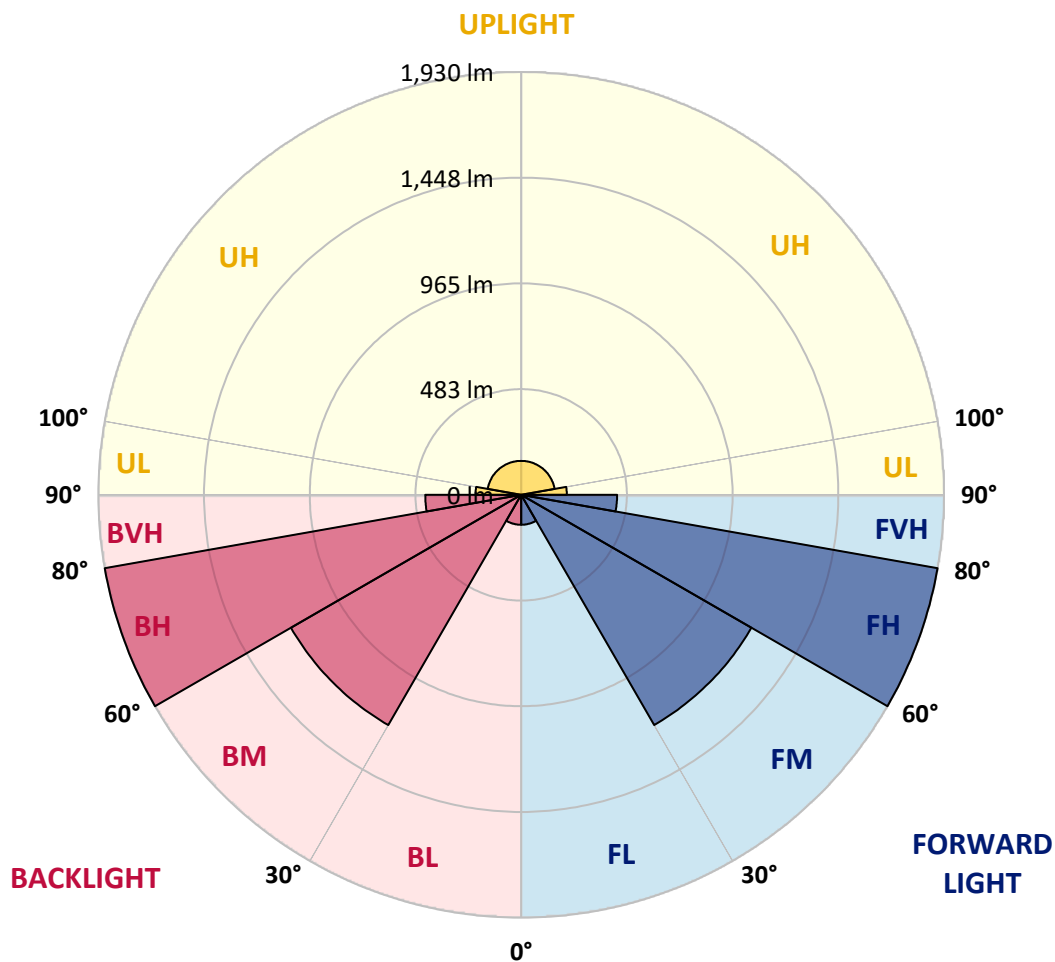
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.7	1.8			
FM (30°-60°)	1213.6	15.7			
FH (60°-80°)	1930.2	24.9			G2/5000
FVH (80°-90°)	437.9	5.7			G3/500
BL (0°-30°)	136.7	1.8	B1/500		
BM (30°-60°)	1213.6	15.7	B2/2500		
BH (60°-80°)	1930.2	24.9	B3/2500		G2/5000
BVH (80°-90°)	437.9	5.7			G3/500
UL (90°-100°)	208.4	2.7		U3/500	
UH (100°-180°)	155.0	2.0		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°	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7
2.5°	150.2	150.2	150.2	150.2	150.2	151.2	150.2	150.2	150.2	150.2	150.2
5°	156.3	156.3	156.3	157.3	157.3	157.3	157.3	157.3	157.3	158.1	157.3
7.5°	167.7	167.7	167.7	167.7	167.7	167.7	168.5	169.4	169.4	170.3	170.3
10°	185.1	185.1	184.2	184.2	184.2	185.1	185.1	186.8	187.7	190.4	189.5
12.5°	212.0	212.0	210.3	208.4	207.7	206.8	208.4	212.0	214.5	218.9	218.1
15°	242.5	242.5	240.7	238.1	237.2	236.3	237.2	241.6	245.9	250.2	249.4
17.5°	276.3	275.4	273.7	270.2	270.2	269.3	269.3	273.7	279.0	284.9	284.9
20°	313.7	311.9	309.2	305.0	305.0	304.0	305.0	308.4	316.3	323.2	323.2
22.5°	356.2	354.6	351.0	346.7	344.1	342.3	343.2	348.5	358.0	367.4	368.3
25°	404.0	401.5	397.9	392.6	385.7	382.3	384.0	392.6	404.9	417.1	414.4
27.5°	454.5	453.6	448.3	440.4	430.1	424.9	429.2	439.6	454.5	467.4	468.2
30°	513.6	510.9	503.9	491.7	480.5	470.1	474.3	488.3	508.3	525.7	526.4
32.5°	575.2	574.2	566.6	549.1	530.0	520.4	524.8	544.7	568.2	585.5	589.1
35°	646.4	644.7	636.0	613.5	589.1	576.1	580.3	604.6	633.3	655.0	656.8
37.5°	724.7	720.3	709.8	682.9	651.6	636.0	640.3	668.1	702.8	724.7	729.9
40°	805.4	804.5	792.3	761.0	722.9	701.1	708.0	739.3	779.3	803.7	807.1
42.5°	899.3	897.4	885.3	848.8	801.8	776.8	784.5	821.9	865.3	889.7	894.1
45°	998.2	1000.1	983.6	947.9	893.2	864.4	869.6	912.3	960.1	990.4	994.0
47.5°	1112.9	1110.3	1100.9	1056.4	994.0	960.8	966.9	1013.8	1070.4	1099.0	1100.9
50°	1233.7	1231.0	1227.7	1181.6	1109.4	1075.6	1079.0	1130.3	1187.6	1217.3	1225.0
52.5°	1368.4	1369.2	1371.1	1320.6	1239.8	1193.8	1201.6	1259.8	1320.6	1347.5	1354.5
55°	1517.9	1518.7	1522.2	1471.0	1379.6	1328.5	1337.9	1402.3	1467.4	1494.4	1496.9
57.5°	1683.8	1679.4	1693.3	1632.5	1532.6	1473.5	1483.9	1550.8	1620.4	1646.5	1651.7
60°	1849.7	1843.6	1862.7	1801.9	1687.2	1623.0	1628.2	1706.3	1781.1	1797.6	1808.8
62.5°	1990.5	1996.6	2021.7	1960.0	1833.3	1755.0	1763.7	1842.8	1926.1	1942.7	1945.3
65°	2100.7	2109.5	2146.8	2082.5	1956.6	1862.7	1874.9	1956.6	2042.6	2050.4	2048.7
67.5°	2158.9	2166.8	2209.4	2156.4	2028.7	1936.6	1943.6	2022.7	2095.6	2103.4	2095.6
68°	2160.8	2169.4	2214.6	2164.2	2038.3	1946.9	1951.4	2028.7	2099.1	2105.9	2098.3
70°	2134.7	2155.6	2202.5	2165.1	2046.9	1961.8	1962.6	2025.1	2092.2	2086.9	2079.9
72.5°	2033.9	2052.2	2118.2	2102.6	2003.5	1930.5	1920.0	1963.5	2002.6	1987.9	1983.5
75°	1828.9	1846.2	1931.4	1948.8	1893.2	1840.2	1814.9	1828.9	1828.1	1801.0	1790.6
77.5°	1531.7	1556.0	1649.8	1714.1	1695.9	1674.3	1631.6	1610.8	1571.7	1517.0	1499.6
80°	1190.3	1214.6	1316.2	1405.8	1442.1	1444.8	1405.8	1336.1	1258.0	1183.3	1168.5
82.5°	882.8	907.8	993.0	1104.2	1152.0	1179.8	1136.4	1047.0	959.2	876.7	861.8
85°	616.9	635.1	721.1	811.4	881.0	911.4	863.6	787.2	698.5	627.2	613.5
87.5°	420.4	430.9	498.6	589.1	654.2	683.8	642.9	568.2	486.5	421.3	406.7
90°	266.7	273.7	324.1	399.7	465.7	491.7	459.7	394.4	319.7	266.7	257.2
92.5°	163.3	166.8	204.2	265.0	320.5	350.1	321.5	263.3	202.5	164.2	159.0
95°	106.9	109.5	131.2	170.3	216.3	238.1	218.9	175.4	134.7	109.5	106.0
97.5°	79.1	80.8	93.9	114.7	142.6	159.0	146.0	120.0	96.5	80.8	78.2
100°	61.7	62.5	71.2	84.4	99.9	109.5	102.5	87.8	73.0	61.7	60.8
102.5°	49.5	49.5	57.3	67.0	76.4	81.7	77.3	69.4	57.3	48.7	47.8
105°	39.0	40.0	46.1	54.7	61.7	65.1	62.5	56.5	46.1	38.2	37.4
107.5°	31.4	31.4	37.4	45.2	52.1	54.7	52.1	46.9	36.6	30.5	29.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	24.3	25.2	29.6	37.4	43.5	46.1	43.5	38.2	29.6	24.3	23.4
112.5°	20.0	20.0	23.4	30.5	36.6	38.2	36.6	30.5	23.4	19.1	19.1
115°	16.4	16.4	19.1	25.2	30.5	32.2	30.5	25.2	19.1	15.6	15.6
117.5°	14.0	14.7	16.4	20.8	25.2	26.1	25.2	20.8	15.6	14.0	13.0
120°	12.1	13.0	14.0	17.3	20.8	21.6	20.0	16.4	13.0	12.1	11.3
122.5°	11.3	11.3	12.1	14.0	17.3	18.2	16.4	14.0	11.3	10.4	10.4
125°	10.4	10.4	10.4	12.1	14.0	14.7	14.0	11.3	9.5	9.5	9.5
127.5°	9.5	9.5	9.5	10.4	12.1	12.1	11.3	9.5	8.8	8.8	8.8
130°	8.8	8.8	8.8	8.8	9.5	10.4	9.5	8.8	7.8	7.8	7.8
132.5°	7.8	7.8	7.8	7.8	7.8	8.8	7.8	6.9	6.9	6.9	6.9
135°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.1	6.1	6.1	6.1
137.5°	6.1	6.1	6.1	6.1	6.1	6.1	5.2	5.2	5.2	6.1	6.1
140°	5.2	5.2	5.2	5.2	4.3	4.3	4.3	4.3	5.2	5.2	5.2
142.5°	5.2	5.2	4.3	4.3	3.5	3.5	3.5	3.5	4.3	4.3	4.3
145°	4.3	4.3	3.5	3.5	3.5	2.6	2.6	3.5	3.5	3.5	3.5
147.5°	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
150°	2.6	2.6	2.6	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6
152.5°	1.7	1.7	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	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)