

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: P266201

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266201  
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-AF24-90-D-U-5WQ-TL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA 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: 7650.6 lumens  
Efficiency: N/A  
Efficacy: 81.4 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

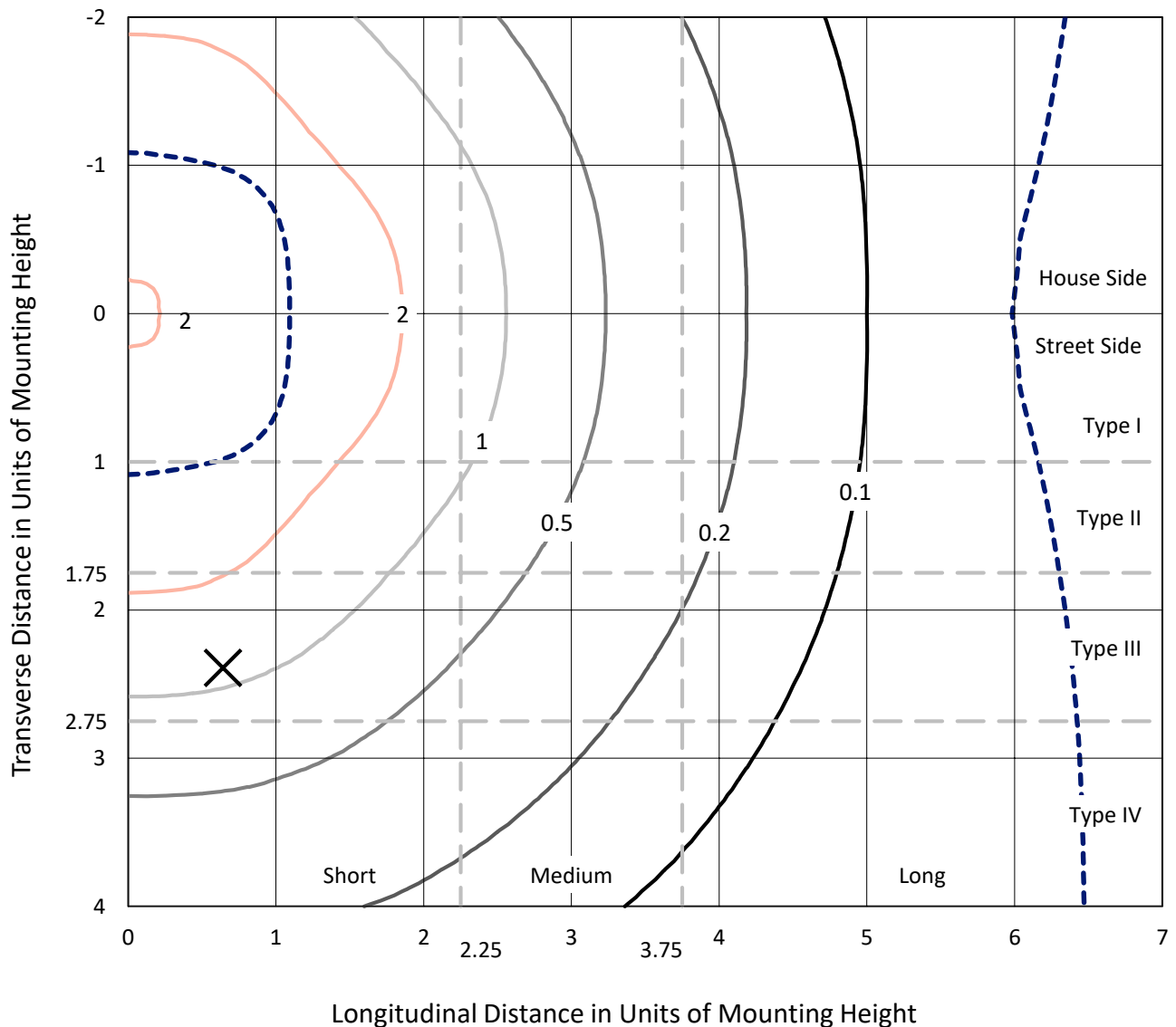


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

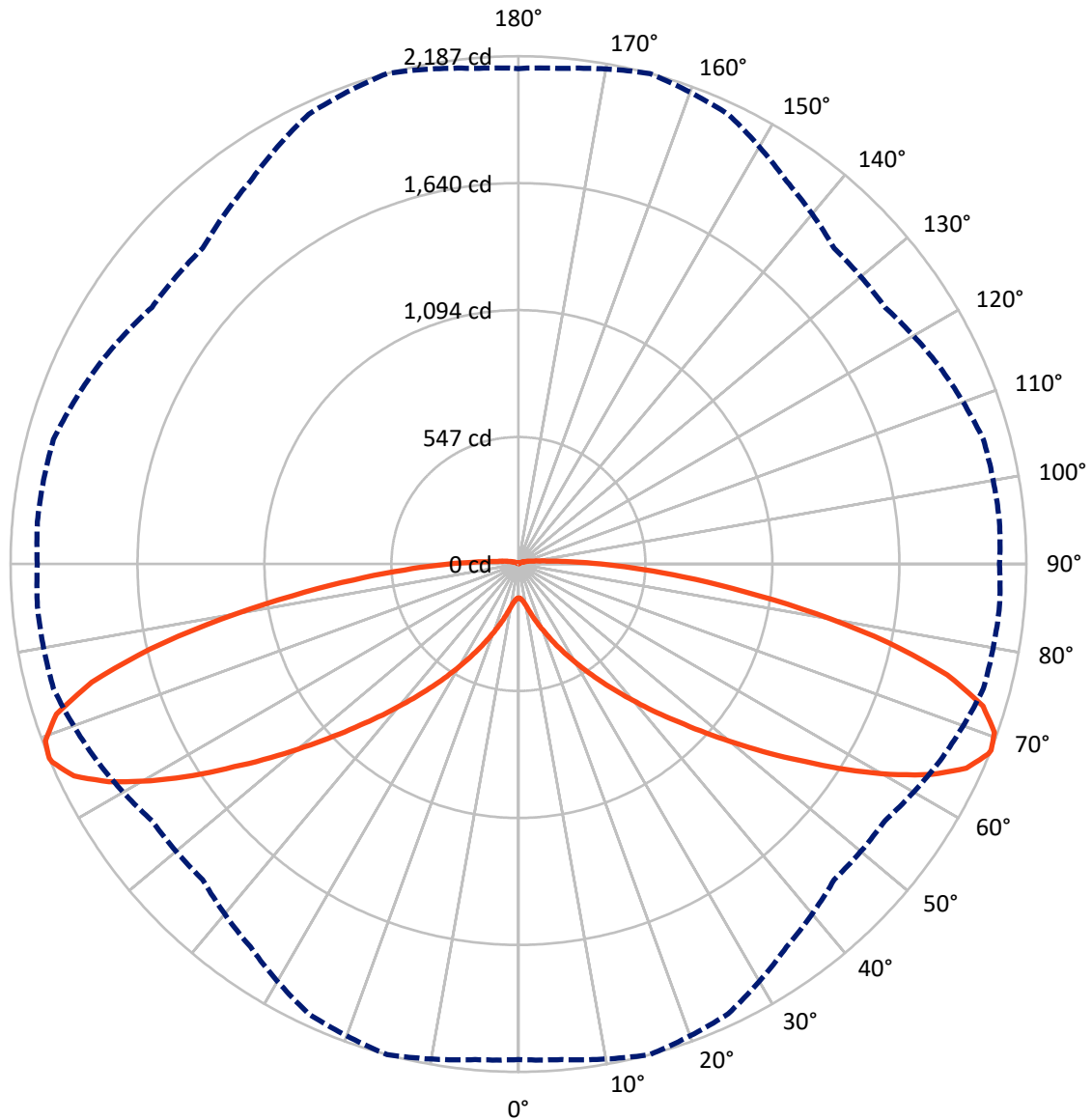


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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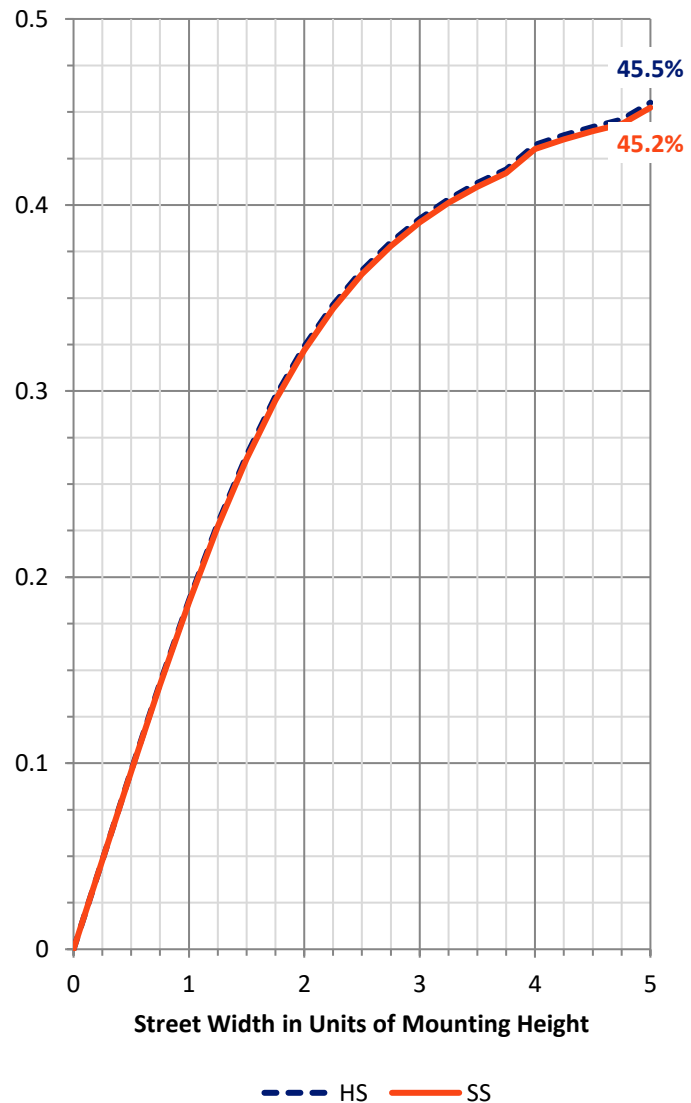
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3672.2	153.1	3825.3
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3672.2	153.1	3825.3
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	7344.5	306.2	7650.6
	% Fixture	96.0	4.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	0.2
10°-20°	69.9	0.9
20°-30°	184.4	2.4
30°-40°	387.0	5.1
40°-50°	726.5	9.5
50°-60°	1283.6	16.8
60°-70°	1936.0	25.3
70°-80°	1876.5	24.5
80°-90°	864.9	11.3
90°-100°	205.8	2.7
100°-110°	57.5	0.8
110°-120°	24.2	0.3
120°-130°	10.8	0.1
130°-140°	5.2	0.1
140°-150°	2.1	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7344.5	96.0
0°-180°	7650.6	100.0

**Coefficient of Utilization**



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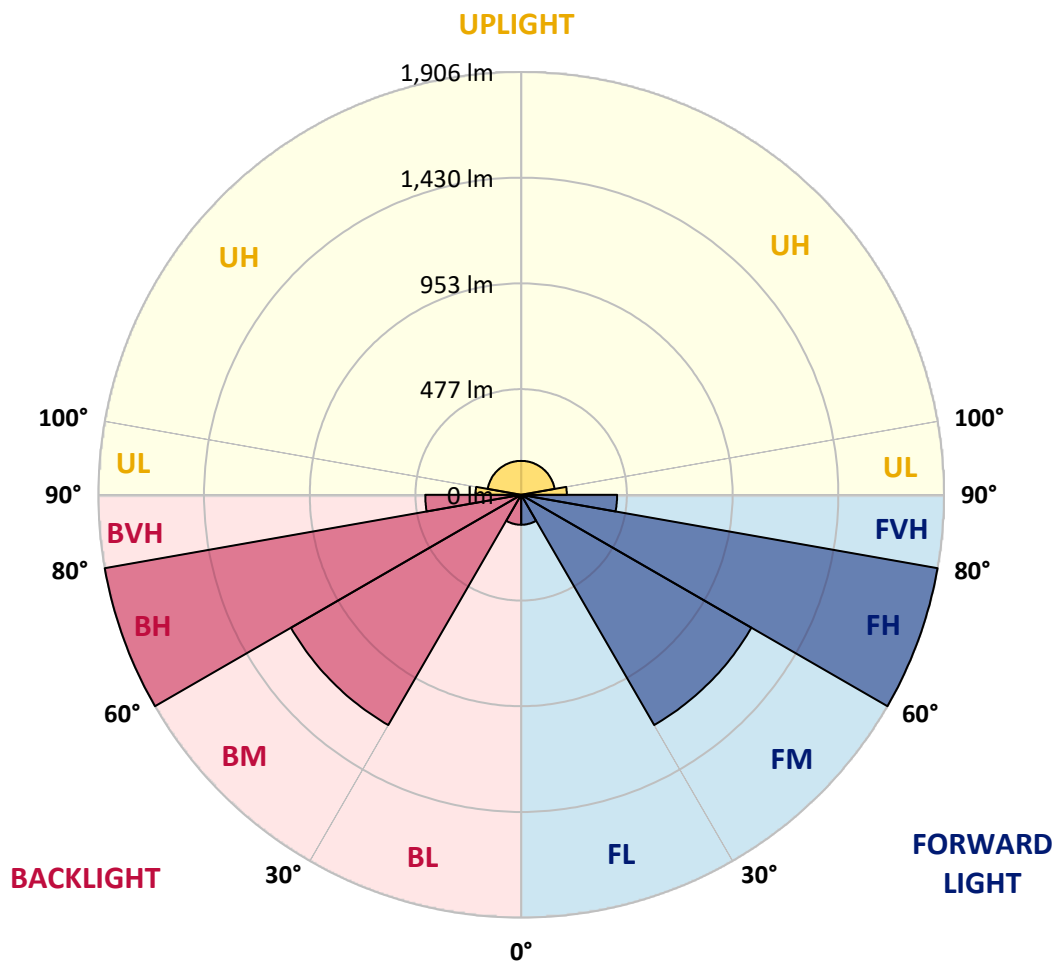
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.0	1.8			
FM	(30°-60°)	1198.5	15.7			
FH	(60°-80°)	1906.3	24.9			G2/5000
FVH	(80°-90°)	432.5	5.7			G3/500
BL	(0°-30°)	135.0	1.8	B1/500		
BM	(30°-60°)	1198.5	15.7	B2/2500		
BH	(60°-80°)	1906.3	24.9	B3/2500		G2/5000
BVH	(80°-90°)	432.5	5.7			G3/500
UL	(90°-100°)	205.8	2.7		U3/500	
UH	(100°-180°)	153.1	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°	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9	145.9
2.5°	148.4	148.4	148.4	148.4	148.4	149.3	148.4	148.4	148.4	148.4	148.4
5°	154.5	154.5	154.5	155.2	155.2	155.2	155.2	155.2	155.2	156.1	155.2
7.5°	165.6	165.6	165.6	165.6	165.6	165.6	166.5	167.4	167.4	168.2	168.2
10°	182.7	182.7	181.8	181.8	181.8	182.7	182.7	184.5	185.3	187.9	187.0
12.5°	209.3	209.3	207.7	205.9	205.1	204.3	205.9	209.3	211.9	216.2	215.4
15°	239.4	239.4	237.7	235.0	234.3	233.4	234.3	238.5	242.8	247.2	246.2
17.5°	272.8	271.9	270.3	266.8	266.8	266.0	266.0	270.3	275.4	281.3	281.3
20°	309.7	307.9	305.5	301.1	301.1	300.4	301.1	304.5	312.3	319.2	319.2
22.5°	351.7	350.1	346.7	342.3	339.7	338.0	338.9	344.1	353.6	362.9	363.9
25°	398.9	396.4	393.0	387.8	381.1	377.6	379.3	387.8	399.8	411.9	409.3
27.5°	448.8	447.9	442.8	435.0	424.7	419.6	423.9	434.2	448.8	461.5	462.4
30°	507.2	504.5	497.7	485.7	474.5	464.2	468.5	482.2	502.0	519.1	519.9
32.5°	568.0	567.2	559.5	542.2	523.4	514.0	518.2	537.9	561.1	578.2	581.7
35°	638.3	636.7	628.0	605.7	581.7	568.8	573.2	597.3	625.5	647.0	648.7
37.5°	715.6	711.3	700.9	674.4	643.5	628.0	632.3	659.9	694.1	715.6	720.7
40°	795.4	794.6	782.6	751.6	713.9	692.5	699.3	730.2	769.7	793.7	797.1
42.5°	888.1	886.4	874.3	838.3	791.9	767.1	774.8	811.7	854.6	878.6	882.9
45°	985.9	987.5	971.2	936.2	882.0	853.7	858.9	900.9	948.2	978.2	981.6
47.5°	1099.2	1096.6	1087.0	1043.3	981.6	949.0	955.0	1001.3	1057.0	1085.4	1087.0
50°	1218.5	1215.9	1212.4	1166.9	1095.8	1062.2	1065.7	1116.4	1172.9	1202.1	1209.7
52.5°	1351.4	1352.3	1353.9	1304.2	1224.4	1178.9	1186.7	1244.2	1304.2	1330.7	1337.7
55°	1499.0	1499.8	1503.3	1452.6	1362.5	1312.0	1321.3	1384.8	1449.2	1475.8	1478.4
57.5°	1662.9	1658.6	1672.3	1612.3	1513.6	1455.3	1465.6	1531.6	1600.2	1625.9	1631.1
60°	1826.8	1820.8	1839.5	1779.5	1666.3	1602.8	1608.0	1685.2	1758.9	1775.3	1786.4
62.5°	1965.8	1971.7	1996.7	1935.7	1810.4	1733.2	1741.9	1819.8	1902.3	1918.5	1921.1
65°	2074.7	2083.3	2120.2	2056.7	1932.3	1839.5	1851.6	1932.3	2017.2	2024.9	2023.3
67.5°	2132.1	2139.9	2182.0	2129.6	2003.5	1912.5	1919.4	1997.6	2069.5	2077.3	2069.5
68°	2134.0	2142.5	2187.2	2137.3	2012.9	1922.8	1927.1	2003.5	2073.0	2079.8	2072.1
70°	2108.1	2128.8	2175.1	2138.1	2021.5	1937.5	1938.4	2000.0	2066.1	2061.0	2054.2
72.5°	2008.6	2026.7	2091.9	2076.4	1978.5	1906.6	1896.2	1939.1	1977.8	1963.2	1958.8
75°	1806.1	1823.3	1907.5	1924.6	1869.6	1817.4	1792.4	1806.1	1805.4	1778.6	1768.5
77.5°	1512.7	1536.7	1629.3	1692.9	1674.9	1653.4	1611.4	1590.8	1552.2	1498.2	1480.9
80°	1175.5	1199.5	1299.8	1388.3	1424.4	1426.9	1388.3	1319.6	1242.4	1168.7	1154.1
82.5°	871.7	896.7	980.7	1090.5	1137.8	1165.2	1122.3	1033.9	947.3	865.7	851.1
85°	609.2	627.2	712.1	801.4	870.1	900.1	852.9	777.4	689.9	619.6	605.7
87.5°	415.2	425.5	492.5	581.7	646.2	675.3	634.9	561.1	480.6	416.2	401.5
90°	263.5	270.3	320.1	394.6	459.9	485.7	454.0	389.5	315.8	263.5	254.0
92.5°	161.3	164.7	201.6	261.6	316.7	345.8	317.6	260.0	200.0	162.1	157.1
95°	105.6	108.2	129.5	168.2	213.6	235.0	216.2	173.4	132.9	108.2	104.7
97.5°	78.2	79.8	92.6	113.2	140.8	157.1	144.2	118.3	95.2	79.8	77.3
100°	60.9	61.8	70.3	83.3	98.6	108.2	101.2	86.6	72.0	60.9	60.0
102.5°	48.9	48.9	56.7	66.0	75.5	80.7	76.4	68.6	56.7	48.1	47.3
105°	38.5	39.4	45.5	54.1	60.9	64.4	61.8	55.8	45.5	37.8	36.9
107.5°	30.9	30.9	36.9	44.6	51.6	54.1	51.6	46.4	36.0	30.1	29.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	24.1	25.0	29.1	36.9	42.8	45.5	42.8	37.8	29.1	24.1	23.1
112.5°	19.8	19.8	23.1	30.1	36.0	37.8	36.0	30.1	23.1	18.9	18.9
115°	16.3	16.3	18.9	25.0	30.1	31.7	30.1	25.0	18.9	15.5	15.5
117.5°	13.7	14.6	16.3	20.7	25.0	25.7	25.0	20.7	15.5	13.7	12.8
120°	11.9	12.8	13.7	17.2	20.7	21.5	19.8	16.3	12.8	11.9	11.1
122.5°	11.1	11.1	11.9	13.7	17.2	18.1	16.3	13.7	11.1	10.3	10.3
125°	10.3	10.3	10.3	11.9	13.7	14.6	13.7	11.1	9.4	9.4	9.4
127.5°	9.4	9.4	9.4	10.3	11.9	11.9	11.1	9.4	8.5	8.5	8.5
130°	8.5	8.5	8.5	8.5	9.4	10.3	9.4	8.5	7.7	7.7	7.7
132.5°	7.7	7.7	7.7	7.7	7.7	8.5	7.7	6.8	6.8	6.8	6.8
135°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.0	6.0	6.0	6.0
137.5°	6.0	6.0	6.0	6.0	6.0	6.0	5.1	5.1	5.1	6.0	6.0
140°	5.1	5.1	5.1	5.1	4.3	4.3	4.3	4.3	5.1	5.1	5.1
142.5°	5.1	5.1	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	2.5	2.5	3.5	3.5	3.5	3.5
147.5°	3.5	3.5	3.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
150°	2.5	2.5	2.5	1.6	1.6	1.6	1.6	1.6	1.6	2.5	2.5
152.5°	1.6	1.6	1.6	1.6	1.6	0.9	1.6	1.6	1.6	1.6	1.6
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)