

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: P254804

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-28)  
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-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8944.6 lumens  
Efficiency: N/A  
Efficacy: 93.2 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 - G4

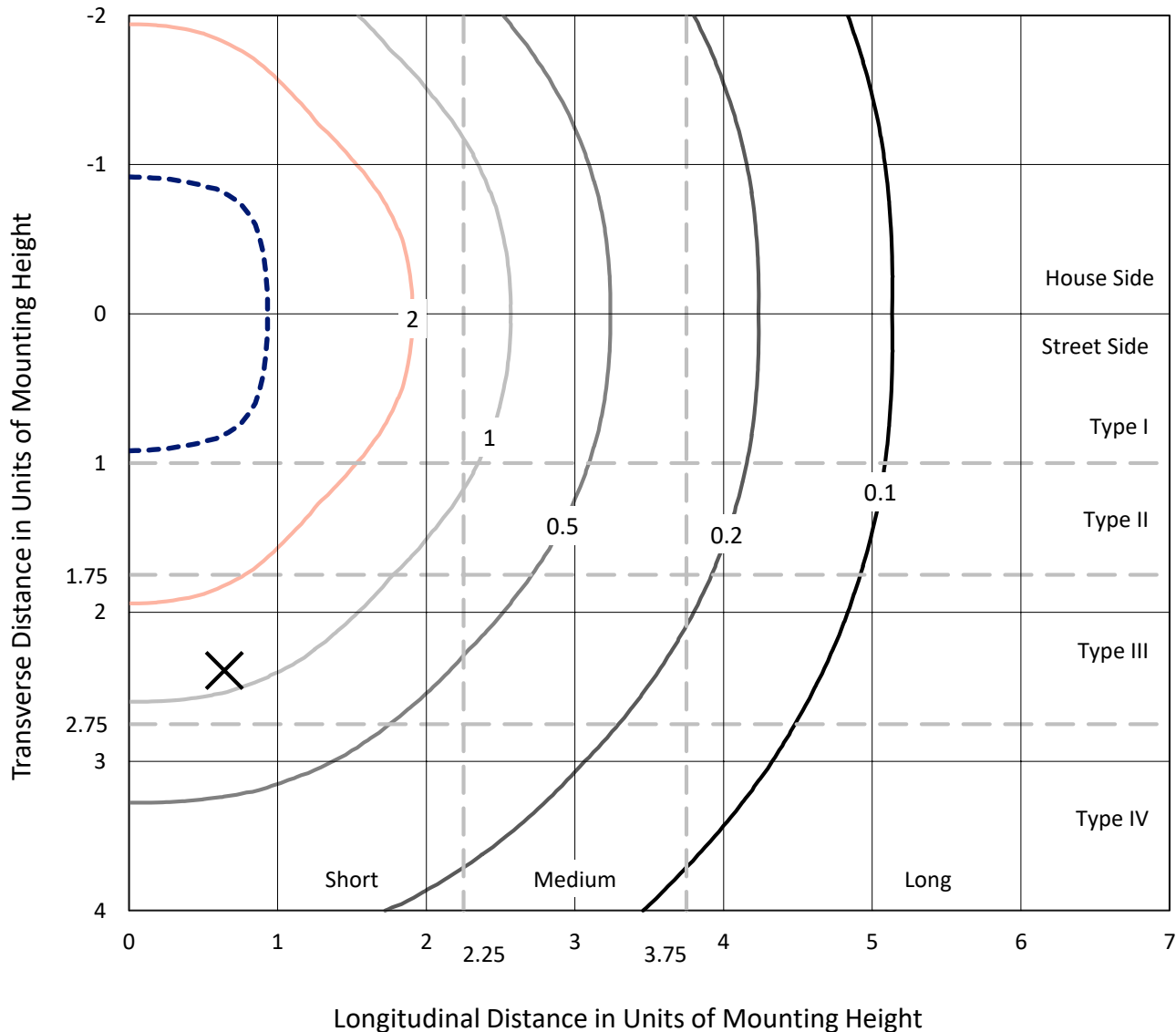
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

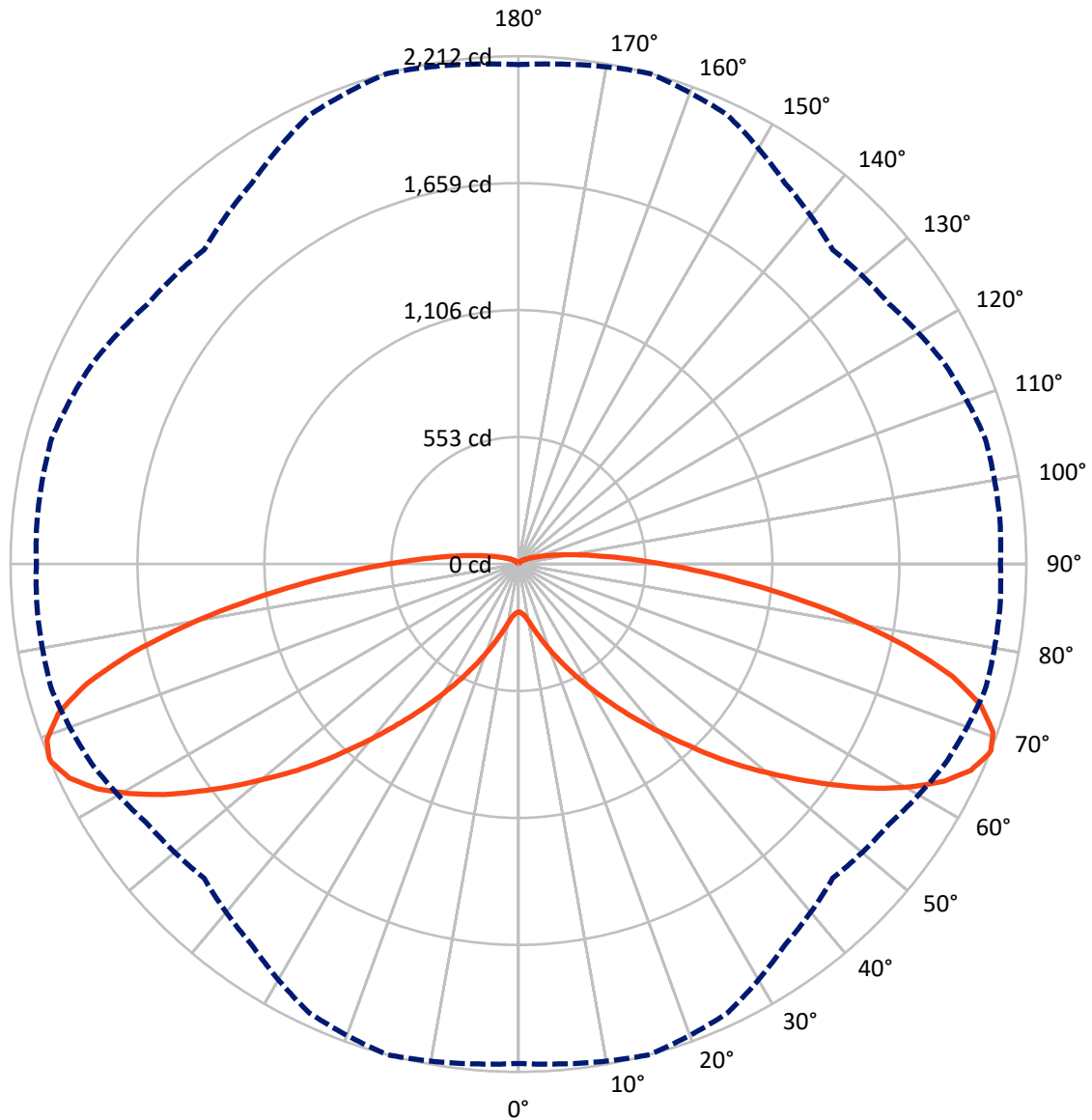
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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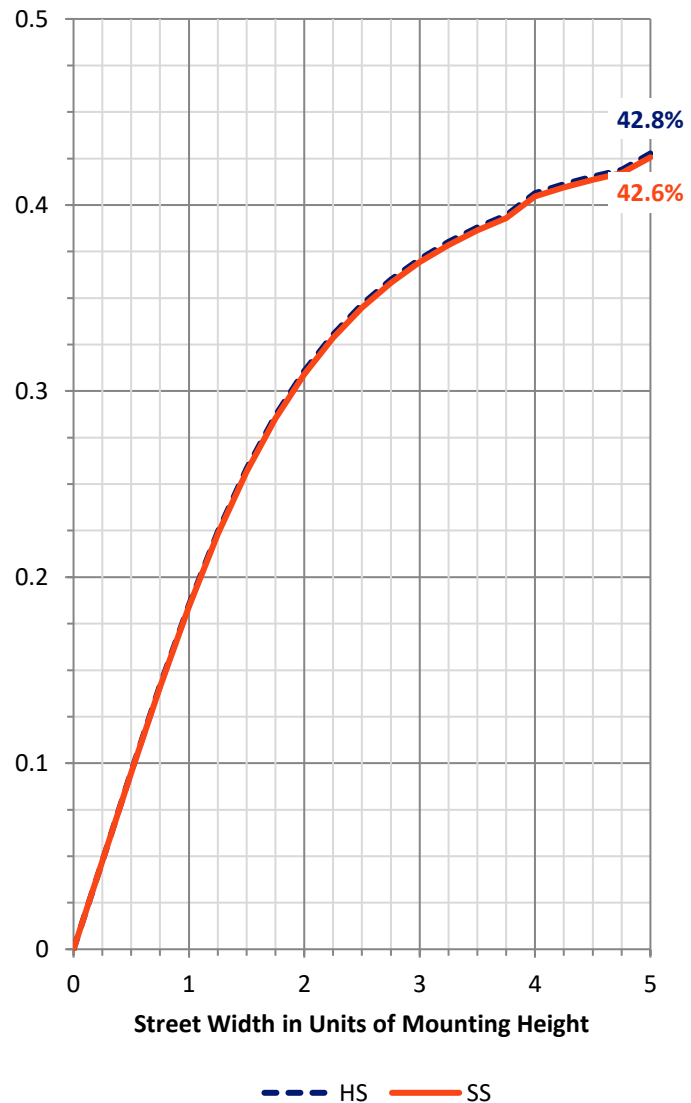
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4098.3	374.0	4472.3
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	4098.3	374.0	4472.3
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	8196.6	748.0	8944.6
	% Fixture	91.6	8.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	0.2
10°-20°	91.8	1.0
20°-30°	233.8	2.6
30°-40°	485.6	5.4
40°-50°	886.5	9.9
50°-60°	1448.0	16.2
60°-70°	1997.5	22.3
70°-80°	1930.0	21.6
80°-90°	1101.4	12.3
90°-100°	443.3	5.0
100°-110°	174.1	1.9
110°-120°	75.4	0.8
120°-130°	34.6	0.4
130°-140°	15.1	0.2
140°-150°	4.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8196.6	91.6
0°-180°	8944.6	100.0



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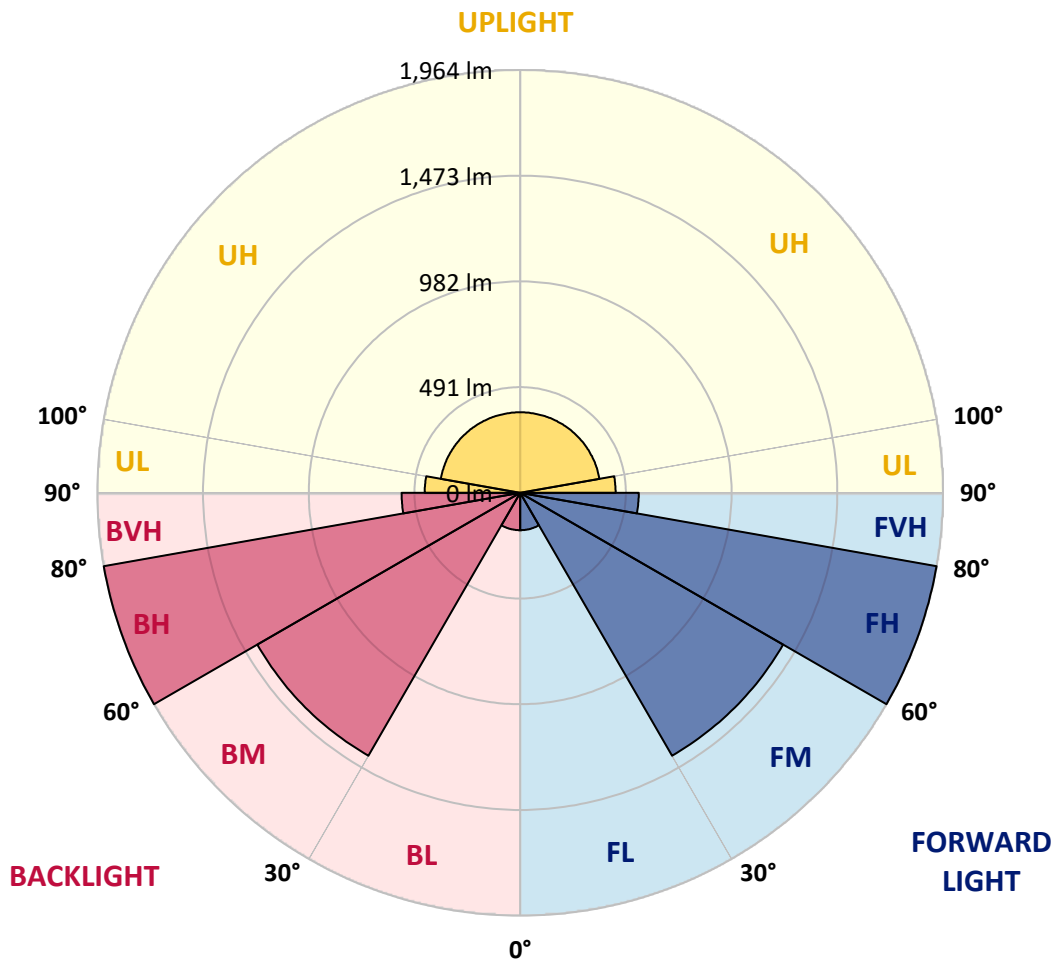
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.8	1.9			
FM	(30°-60°)	1410.1	15.8			
FH	(60°-80°)	1963.8	22.0			G2/5000
FVH	(80°-90°)	550.7	6.2			G4/750
BL	(0°-30°)	173.8	1.9	B1/500		
BM	(30°-60°)	1410.1	15.8	B2/2500		
BH	(60°-80°)	1963.8	22.0	B3/2500		G2/5000
BVH	(80°-90°)	550.7	6.2			G4/750
UL	(90°-100°)	443.3	5.0		U3/500	
UH	(100°-180°)	374.0	4.2		U3/500	

**BUG Rating: B3-U3-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
2.5°	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8	210.7	210.7	210.7
5°	218.9	219.9	219.9	219.9	219.9	219.9	219.9	218.9	218.9	218.9	218.9
7.5°	233.2	233.2	233.2	233.2	233.2	232.2	232.2	232.2	231.2	231.2	230.2
10°	255.7	255.7	255.7	254.7	253.7	252.7	252.7	251.6	250.6	250.6	249.6
12.5°	285.4	285.4	285.4	280.3	279.3	277.2	277.2	277.2	278.2	278.2	279.3
15°	321.2	321.2	321.2	315.1	311.0	305.9	307.9	308.9	311.0	311.0	312.0
17.5°	362.1	362.1	360.1	353.9	347.8	344.7	342.7	345.8	347.8	349.8	349.8
20°	407.1	407.1	404.1	395.9	389.7	387.7	385.7	385.7	390.8	392.8	390.8
22.5°	458.3	456.2	454.2	444.0	437.8	432.7	432.7	431.7	437.8	441.9	440.9
25°	516.6	514.5	508.4	497.2	490.0	483.9	482.8	482.8	493.1	499.2	498.2
27.5°	580.0	576.9	568.8	556.5	545.2	537.0	538.1	542.2	551.4	562.6	562.6
30°	649.6	647.5	634.2	622.0	603.5	593.3	595.4	606.6	618.9	631.2	632.2
32.5°	726.3	722.2	706.9	690.5	668.0	654.7	658.8	672.1	690.5	708.9	709.9
35°	811.2	807.1	788.7	766.2	737.5	720.2	726.3	746.8	771.3	792.8	793.8
37.5°	903.3	897.1	874.6	851.1	812.2	791.8	802.0	828.6	857.2	881.8	884.9
40°	997.4	997.4	972.8	941.1	894.1	869.5	880.8	916.6	953.4	975.9	981.0
42.5°	1102.7	1103.8	1076.1	1038.3	983.1	954.4	967.7	1009.7	1054.7	1079.2	1084.3
45°	1213.2	1216.3	1195.8	1142.6	1079.2	1044.4	1059.8	1113.0	1163.1	1188.7	1192.8
47.5°	1331.9	1336.0	1316.5	1255.2	1182.5	1144.7	1161.0	1221.4	1279.7	1304.3	1308.4
50°	1457.7	1460.8	1437.2	1376.9	1295.1	1249.0	1269.5	1337.0	1397.4	1421.9	1428.0
52.5°	1587.6	1590.7	1568.2	1507.8	1412.7	1361.5	1386.1	1456.7	1524.2	1545.7	1546.7
55°	1718.6	1722.6	1703.2	1637.7	1535.4	1477.1	1504.8	1579.4	1652.1	1672.5	1678.7
57.5°	1847.4	1851.5	1843.4	1769.7	1660.2	1593.8	1625.5	1707.3	1778.9	1795.3	1796.3
60°	1968.2	1975.3	1969.2	1896.6	1777.9	1705.3	1739.0	1824.9	1896.6	1909.8	1911.9
62.5°	2074.5	2078.6	2081.7	2016.2	1882.2	1803.5	1841.3	1930.3	1999.9	2008.1	2007.0
65°	2147.2	2155.4	2165.6	2102.2	1967.1	1882.2	1921.1	2008.1	2072.5	2078.6	2074.5
67.5°	2174.8	2186.0	2208.6	2152.3	2019.3	1930.3	1968.2	2049.0	2104.2	2107.3	2100.1
68°	2174.8	2185.0	2211.6	2156.4	2024.4	1935.4	1972.2	2052.0	2105.2	2105.2	2099.1
70°	2143.1	2157.4	2192.2	2150.2	2025.4	1939.5	1971.2	2039.8	2084.8	2076.6	2067.4
72.5°	2042.8	2059.2	2106.3	2080.7	1978.4	1901.7	1924.2	1974.3	1994.8	1978.4	1969.2
75°	1868.9	1886.3	1950.8	1946.7	1874.0	1810.6	1823.9	1846.4	1846.4	1815.7	1799.4
77.5°	1650.0	1666.4	1729.8	1755.4	1720.6	1673.5	1673.5	1668.4	1642.9	1591.7	1577.4
80°	1390.2	1404.5	1472.0	1526.2	1520.1	1493.5	1481.2	1448.5	1403.5	1347.2	1326.8
82.5°	1130.4	1145.7	1211.2	1266.4	1302.2	1292.0	1270.5	1219.4	1152.9	1090.5	1078.2
85°	896.1	901.2	969.8	1040.3	1081.3	1085.4	1062.8	997.4	928.8	867.5	853.1
87.5°	698.7	705.8	762.1	833.7	883.8	887.9	865.4	798.9	732.4	677.2	664.9
90°	537.0	548.3	593.3	657.8	705.8	716.1	693.6	634.2	571.8	521.7	511.5
92.5°	414.3	421.5	461.4	516.6	560.6	573.9	553.4	501.2	447.0	403.0	399.0
95°	325.3	327.3	359.1	406.1	442.9	460.3	440.9	396.9	349.8	314.0	310.0
97.5°	251.6	255.7	281.3	321.2	355.0	366.2	351.9	315.1	276.2	242.4	239.4
100°	195.4	198.5	221.0	256.8	284.4	294.6	283.4	252.7	216.9	190.3	190.3
102.5°	155.5	156.5	174.9	204.6	227.1	236.3	228.1	202.5	171.9	150.4	151.4
105°	124.8	124.8	139.1	165.7	187.2	193.3	186.2	163.7	137.1	120.7	120.7
107.5°	100.2	101.3	112.5	135.0	154.5	160.6	154.5	134.0	110.5	98.2	98.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	82.9	82.9	91.0	110.5	127.9	134.0	127.9	109.5	90.0	79.8	79.8
112.5°	68.5	68.5	74.7	91.0	106.4	112.5	106.4	90.0	73.7	66.5	66.5
115°	58.3	58.3	62.4	75.7	89.0	94.1	89.0	75.7	61.4	57.3	57.3
117.5°	50.1	50.1	53.2	63.4	74.7	79.8	74.7	62.4	52.2	49.1	49.1
120°	44.0	44.0	45.0	52.2	62.4	66.5	62.4	52.2	44.0	41.9	41.9
122.5°	37.8	37.8	37.8	44.0	52.2	55.2	51.1	44.0	37.8	36.8	36.8
125°	33.8	32.7	33.8	36.8	43.0	47.1	43.0	36.8	32.7	32.7	32.7
127.5°	29.7	29.7	28.6	30.7	35.8	37.8	35.8	30.7	28.6	28.6	28.6
130°	25.6	25.6	25.6	26.6	28.6	30.7	29.7	26.6	25.6	25.6	25.6
132.5°	22.5	22.5	21.5	22.5	23.5	24.6	23.5	21.5	21.5	22.5	22.5
135°	19.4	19.4	19.4	18.4	18.4	19.4	18.4	18.4	19.4	19.4	19.4
137.5°	17.4	17.4	16.4	15.3	14.3	14.3	14.3	15.3	16.4	16.4	17.4
140°	14.3	14.3	13.3	12.3	11.3	11.3	11.3	12.3	13.3	14.3	14.3
142.5°	12.3	12.3	11.3	9.2	8.2	7.2	8.2	9.2	10.2	11.3	11.3
145°	9.2	9.2	8.2	7.2	6.1	5.1	5.1	7.2	8.2	9.2	9.2
147.5°	7.2	7.2	6.1	5.1	4.1	3.1	3.1	5.1	6.1	7.2	7.2
150°	5.1	5.1	4.1	3.1	2.0	2.0	2.0	3.1	4.1	4.1	5.1
152.5°	3.1	3.1	2.0	2.0	1.0	1.0	1.0	2.0	2.0	3.1	3.1
155°	1.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	2.0	2.0
157.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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)