

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: P254801

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254801  
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-AF24-70-D-U-5WQ-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 930mA 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: 7495.2 lumens  
Efficiency: N/A  
Efficacy: 101.3 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

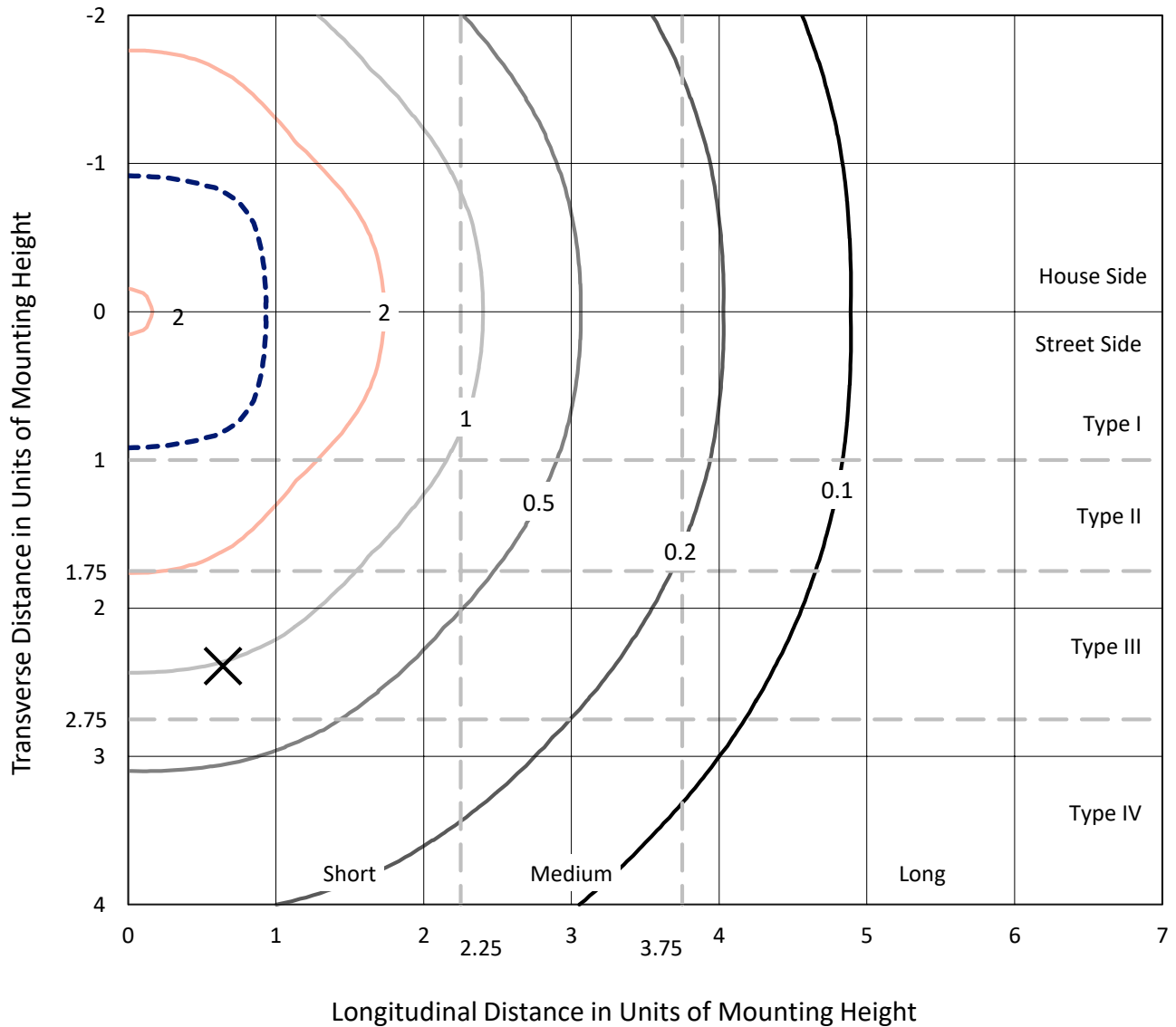


REPORT NUMBER: P254801

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-FL

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

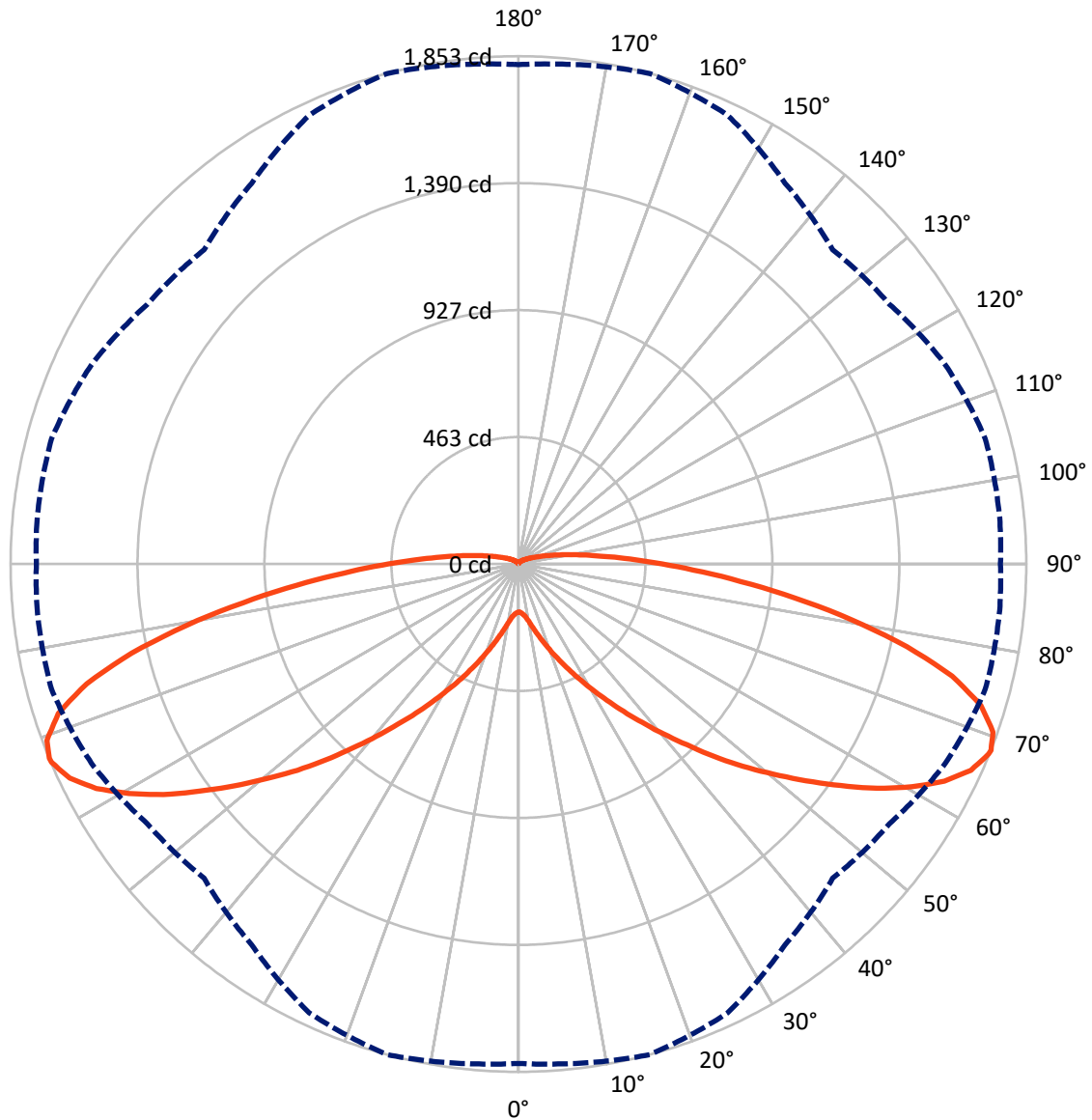


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Non-Cutoff

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CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-FL

### Luminous Intensity Polar Plot



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

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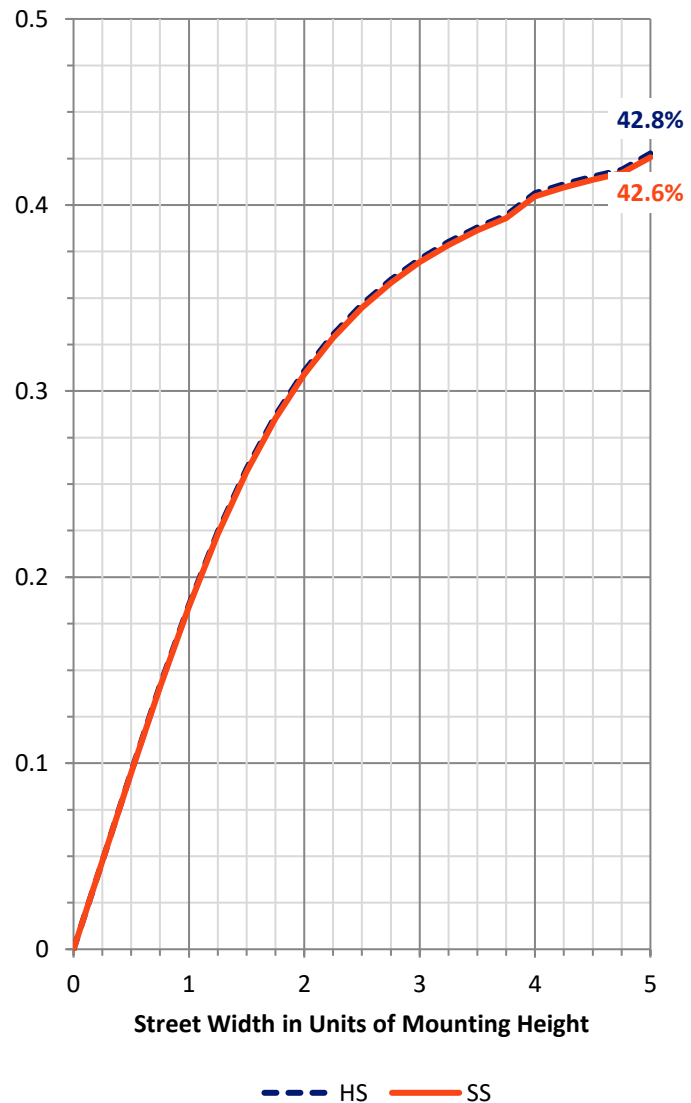
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3434.2	313.4	3747.6
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	3434.2	313.4	3747.6
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	6868.4	626.8	7495.2
	% Fixture	91.6	8.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.4	0.2
10°-20°	76.9	1.0
20°-30°	195.9	2.6
30°-40°	406.9	5.4
40°-50°	742.8	9.9
50°-60°	1213.4	16.2
60°-70°	1673.8	22.3
70°-80°	1617.3	21.6
80°-90°	923.0	12.3
90°-100°	371.5	5.0
100°-110°	145.9	1.9
110°-120°	63.2	0.8
120°-130°	29.0	0.4
130°-140°	12.6	0.2
140°-150°	4.1	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6868.4	91.6
0°-180°	7495.2	100.0



REPORT NUMBER: P254801

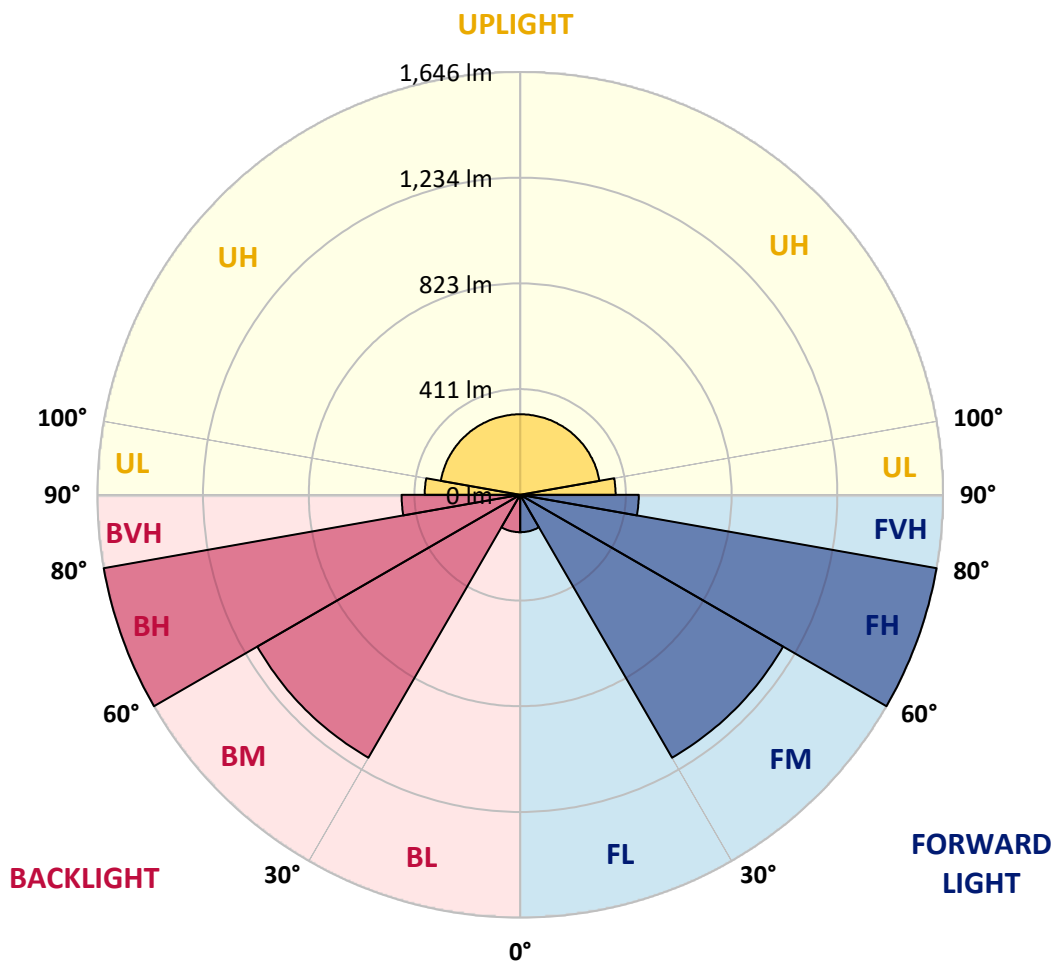
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.6	1.9			
FM (30°-60°)	1181.6	15.8			
FH (60°-80°)	1645.5	22.0			G1/1800
FVH (80°-90°)	461.5	6.2			G3/500
BL (0°-30°)	145.6	1.9	B1/500		
BM (30°-60°)	1181.6	15.8	B2/2500		
BH (60°-80°)	1645.5	22.0	B3/2500		G1/1800
BVH (80°-90°)	461.5	6.2			G3/500
UL (90°-100°)	371.5	5.0		U3/500	
UH (100°-180°)	313.4	4.2		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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	176.6	176.6	176.6
5°	183.4	184.3	184.3	184.3	184.3	184.3	184.3	183.4	183.4	183.4	183.4
7.5°	195.5	195.5	195.5	195.5	195.5	194.6	194.6	194.6	193.7	193.7	192.8
10°	214.3	214.3	214.3	213.4	212.6	211.8	211.8	210.8	210.0	210.0	209.2
12.5°	239.2	239.2	239.2	234.9	234.1	232.3	232.3	232.3	233.1	233.1	234.1
15°	269.1	269.1	269.1	264.0	260.5	256.2	258.0	258.9	260.5	260.5	261.5
17.5°	303.4	303.4	301.8	296.6	291.4	288.9	287.1	289.7	291.4	293.2	293.2
20°	341.2	341.2	338.6	331.7	326.6	324.9	323.2	323.2	327.4	329.2	327.4
22.5°	384.0	382.3	380.6	372.0	366.8	362.6	362.6	361.7	366.8	370.3	369.5
25°	432.9	431.2	426.1	416.5	410.6	405.5	404.6	404.6	413.2	418.3	417.5
27.5°	486.0	483.4	476.6	466.3	456.8	450.0	450.9	454.3	462.1	471.5	471.5
30°	544.3	542.6	531.4	521.2	505.7	497.2	498.9	508.3	518.6	528.9	529.8
32.5°	608.6	605.2	592.3	578.6	559.8	548.6	552.0	563.1	578.6	594.0	594.8
35°	679.8	676.3	660.9	642.0	618.1	603.4	608.6	625.7	646.3	664.3	665.2
37.5°	756.9	751.8	732.8	713.2	680.6	663.5	672.1	694.3	718.3	738.9	741.4
40°	835.8	835.8	815.2	788.6	749.2	728.6	738.1	768.0	798.9	817.7	822.0
42.5°	924.0	924.8	901.7	870.0	823.8	799.7	810.9	846.1	883.7	904.3	908.6
45°	1016.6	1019.2	1002.1	957.5	904.3	875.1	888.0	932.6	974.7	996.0	999.5
47.5°	1116.0	1119.5	1103.2	1051.8	990.9	959.2	972.9	1023.5	1072.4	1092.9	1096.3
50°	1221.5	1224.1	1204.3	1153.8	1085.1	1046.6	1063.8	1120.3	1170.9	1191.5	1196.6
52.5°	1330.3	1332.9	1314.1	1263.4	1183.8	1140.9	1161.5	1220.6	1277.2	1295.2	1296.1
55°	1440.1	1443.5	1427.2	1372.4	1286.7	1237.8	1260.9	1323.5	1384.4	1401.4	1406.7
57.5°	1548.0	1551.5	1544.7	1483.0	1391.2	1335.5	1362.1	1430.6	1490.6	1504.4	1505.2
60°	1649.2	1655.2	1650.1	1589.3	1489.8	1429.0	1457.2	1529.2	1589.3	1600.4	1602.0
62.5°	1738.4	1741.8	1744.3	1689.5	1577.2	1511.2	1542.9	1617.5	1675.8	1682.7	1681.8
65°	1799.3	1806.1	1814.6	1761.5	1648.4	1577.2	1609.8	1682.7	1736.7	1741.8	1738.4
67.5°	1822.4	1831.8	1850.6	1803.5	1692.1	1617.5	1649.2	1716.9	1763.3	1765.8	1759.8
68°	1822.4	1831.0	1853.3	1806.9	1696.4	1621.8	1652.7	1719.5	1764.1	1764.1	1759.0
70°	1795.8	1807.8	1836.9	1801.8	1697.2	1625.3	1651.8	1709.2	1746.9	1740.0	1732.4
72.5°	1711.8	1725.5	1764.9	1743.5	1657.8	1593.6	1612.4	1654.3	1671.5	1657.8	1650.1
75°	1566.0	1580.7	1634.7	1631.2	1570.3	1517.2	1528.4	1547.2	1547.2	1521.5	1507.8
77.5°	1382.6	1396.3	1449.5	1470.9	1441.7	1402.4	1402.4	1398.1	1376.6	1333.8	1321.8
80°	1164.9	1176.9	1233.5	1278.9	1273.8	1251.5	1241.2	1213.7	1176.1	1128.9	1111.7
82.5°	947.2	960.0	1014.9	1061.2	1091.2	1082.6	1064.6	1021.7	966.1	913.8	903.5
85°	750.8	755.1	812.6	871.8	906.0	909.5	890.6	835.8	778.4	726.9	714.9
87.5°	585.4	591.5	638.6	698.6	740.6	744.0	725.2	669.4	613.8	567.4	557.2
90°	450.0	459.4	497.2	551.2	591.5	600.1	581.1	531.4	479.2	437.2	428.6
92.5°	347.2	353.1	386.6	432.9	469.7	480.9	463.7	420.0	374.6	337.8	334.3
95°	272.6	274.3	300.8	340.3	371.1	385.8	369.5	332.6	293.2	263.2	259.7
97.5°	210.8	214.3	235.7	269.1	297.5	306.9	294.9	264.0	231.4	203.2	200.6
100°	163.7	166.3	185.2	215.1	238.3	246.8	237.4	211.8	181.7	159.5	159.5
102.5°	130.3	131.1	146.6	171.4	190.3	198.0	191.2	169.7	144.0	126.0	126.8
105°	104.5	104.5	116.6	138.8	156.8	162.0	156.0	137.2	114.9	101.2	101.2
107.5°	84.0	84.9	94.3	113.1	129.4	134.6	129.4	112.3	92.6	82.2	82.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	69.5	69.5	76.3	92.6	107.1	112.3	107.1	91.8	75.4	66.9	66.9
112.5°	57.4	57.4	62.6	76.3	89.1	94.3	89.1	75.4	61.7	55.8	55.8
115°	48.9	48.9	52.3	63.4	74.6	78.9	74.6	63.4	51.5	48.0	48.0
117.5°	42.0	42.0	44.6	53.2	62.6	66.9	62.6	52.3	43.7	41.1	41.1
120°	36.8	36.8	37.7	43.7	52.3	55.8	52.3	43.7	36.8	35.2	35.2
122.5°	31.7	31.7	31.7	36.8	43.7	46.2	42.9	36.8	31.7	30.9	30.9
125°	28.3	27.4	28.3	30.9	36.0	39.4	36.0	30.9	27.4	27.4	27.4
127.5°	24.9	24.9	24.0	25.7	30.0	31.7	30.0	25.7	24.0	24.0	24.0
130°	21.4	21.4	21.4	22.3	24.0	25.7	24.9	22.3	21.4	21.4	21.4
132.5°	18.8	18.8	18.0	18.8	19.7	20.6	19.7	18.0	18.0	18.8	18.8
135°	16.3	16.3	16.3	15.4	15.4	16.3	15.4	15.4	16.3	16.3	16.3
137.5°	14.5	14.5	13.7	12.9	12.0	12.0	12.0	12.9	13.7	13.7	14.5
140°	12.0	12.0	11.2	10.3	9.4	9.4	9.4	10.3	11.2	12.0	12.0
142.5°	10.3	10.3	9.4	7.7	6.9	6.0	6.9	7.7	8.6	9.4	9.4
145°	7.7	7.7	6.9	6.0	5.1	4.3	4.3	6.0	6.9	7.7	7.7
147.5°	6.0	6.0	5.1	4.3	3.5	2.6	2.6	4.3	5.1	6.0	6.0
150°	4.3	4.3	3.5	2.6	1.7	1.7	1.7	2.6	3.5	3.5	4.3
152.5°	2.6	2.6	1.7	1.7	0.8	0.8	0.8	1.7	1.7	2.6	2.6
155°	0.8	1.7	0.8	0.8	0.8	0.0	0.8	0.8	0.8	1.7	1.7
157.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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)