

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: P266229

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266229  
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-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 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: 7596.6 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

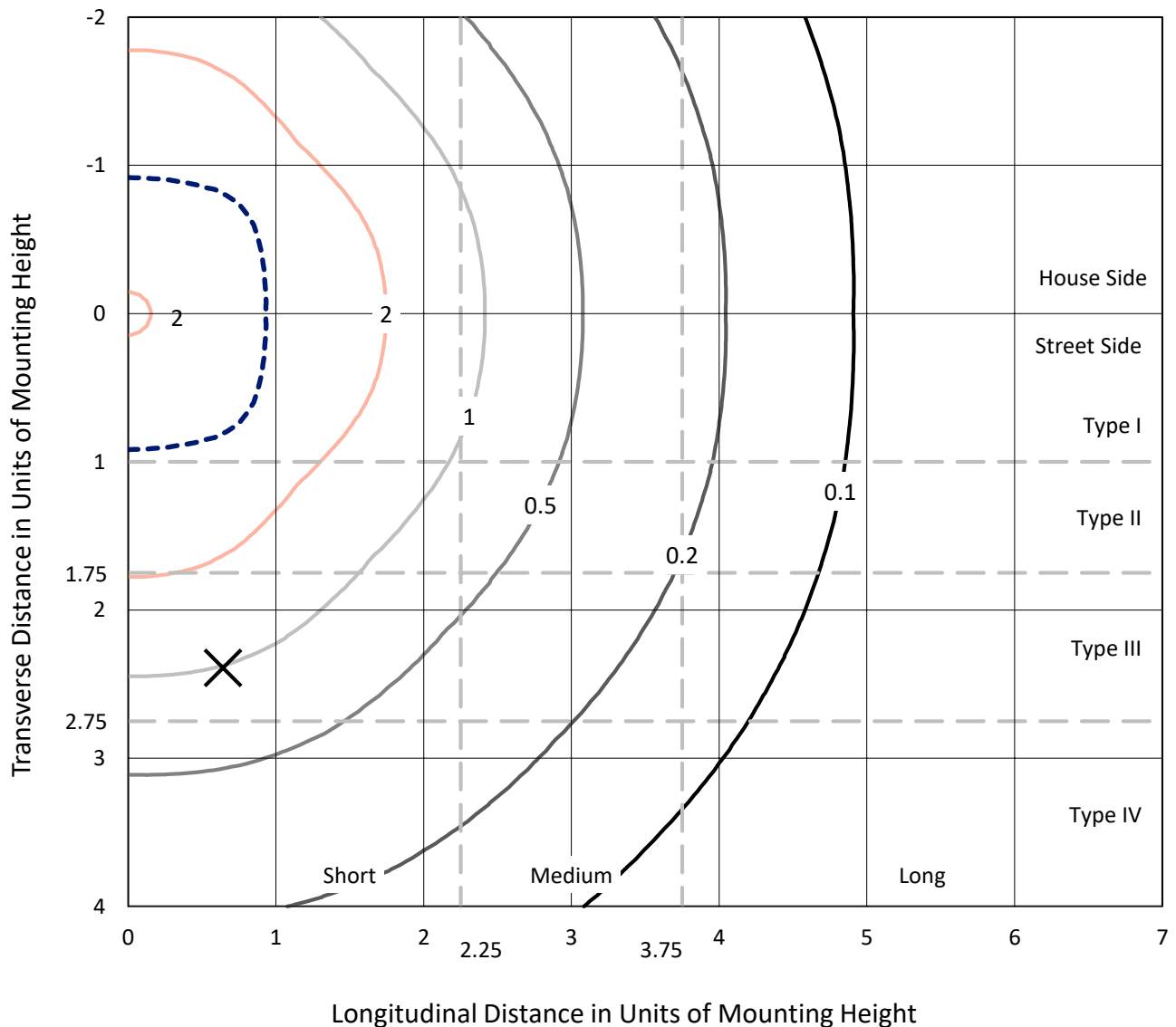


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

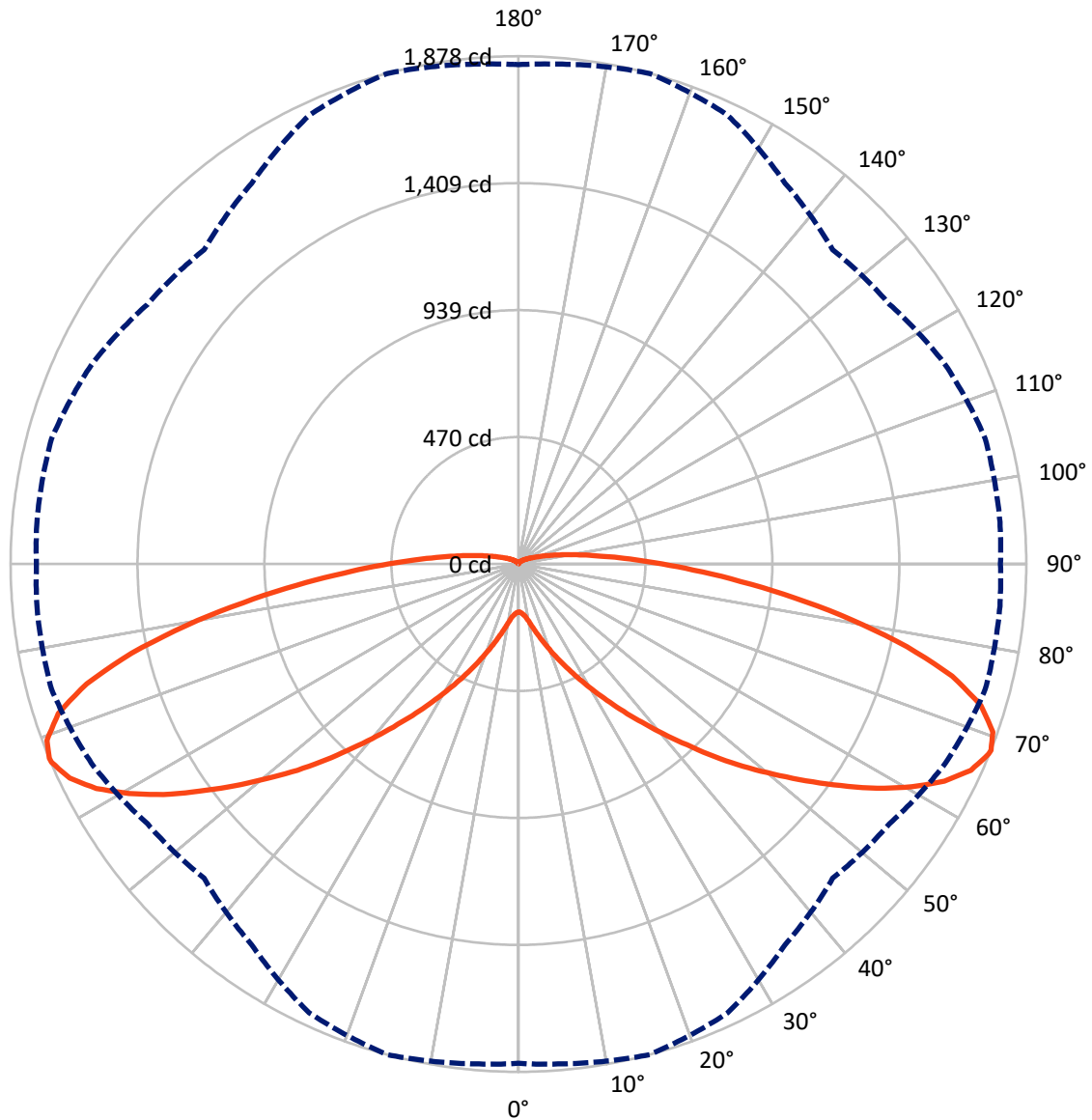


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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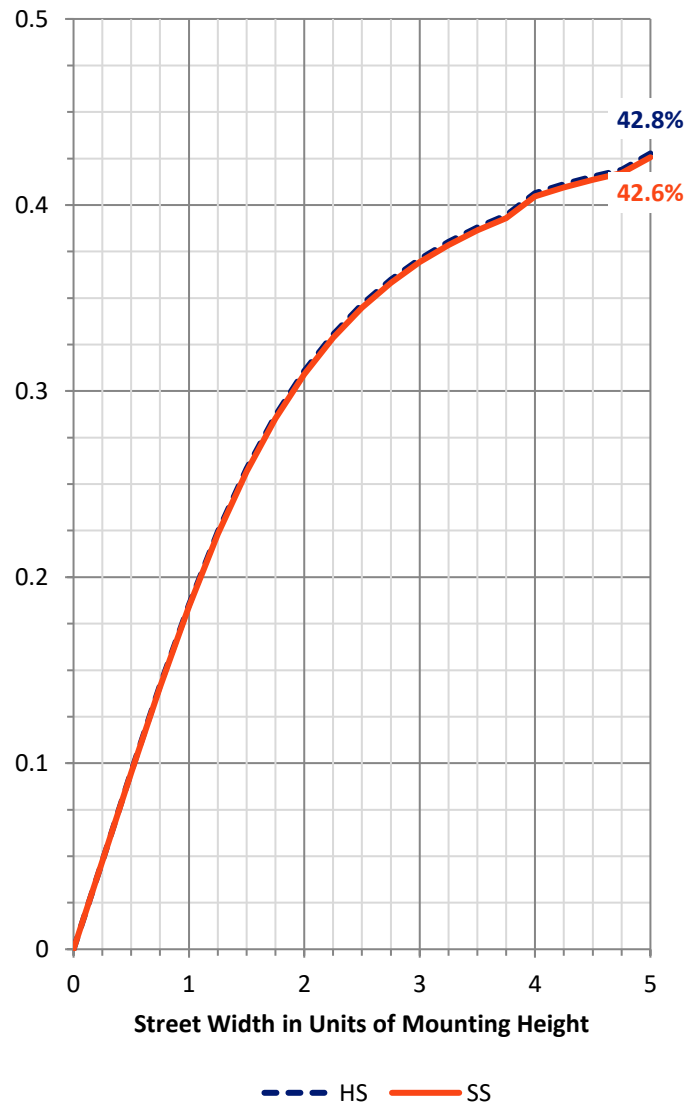
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3480.7	317.6	3798.3
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	3480.7	317.6	3798.3
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	6961.4	635.2	7596.6
	% Fixture	91.6	8.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.7	0.2
10°-20°	77.9	1.0
20°-30°	198.5	2.6
30°-40°	412.5	5.4
40°-50°	752.9	9.9
50°-60°	1229.8	16.2
60°-70°	1696.5	22.3
70°-80°	1639.2	21.6
80°-90°	935.5	12.3
90°-100°	376.5	5.0
100°-110°	147.9	1.9
110°-120°	64.1	0.8
120°-130°	29.4	0.4
130°-140°	12.8	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°	6961.4	91.6
0°-180°	7596.6	100.0



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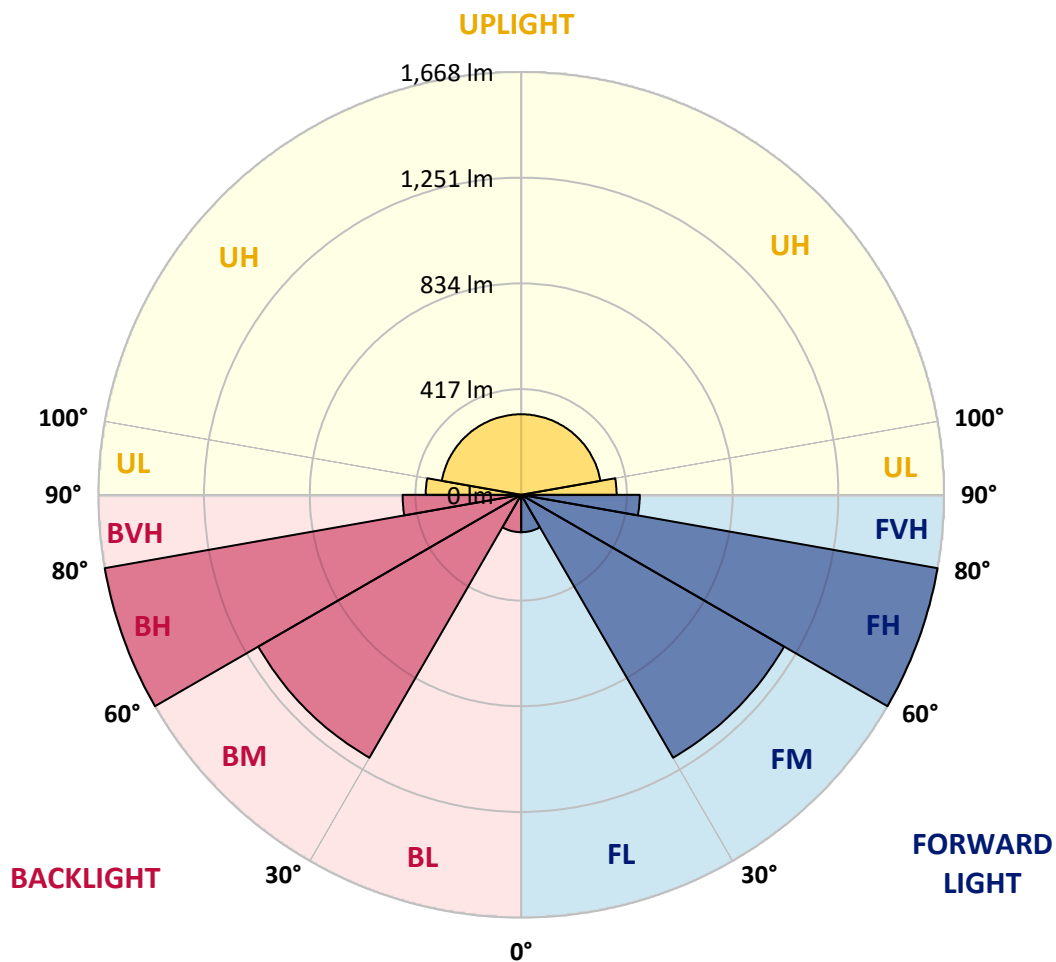
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.6	1.9			
FM (30°-60°)	1197.6	15.8			
FH (60°-80°)	1667.8	22.0			G1/1800
FVH (80°-90°)	467.7	6.2			G3/500
BL (0°-30°)	147.6	1.9	B1/500		
BM (30°-60°)	1197.6	15.8	B2/2500		
BH (60°-80°)	1667.8	22.0	B3/2500		G1/1800
BVH (80°-90°)	467.7	6.2			G3/500
UL (90°-100°)	376.5	5.0		U3/500	
UH (100°-180°)	317.6	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°	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2	177.2
2.5°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	178.9	178.9	178.9
5°	185.9	186.8	186.8	186.8	186.8	186.8	186.8	185.9	185.9	185.9	185.9
7.5°	198.0	198.0	198.0	198.0	198.0	197.2	197.2	197.2	196.4	196.4	195.6
10°	217.2	217.2	217.2	216.3	215.5	214.5	214.5	213.7	212.9	212.9	212.0
12.5°	242.5	242.5	242.5	238.1	237.2	235.4	235.4	235.4	236.3	236.3	237.2
15°	272.7	272.7	272.7	267.5	264.1	259.8	261.4	262.3	264.1	264.1	265.0
17.5°	307.6	307.6	305.9	300.7	295.5	292.8	291.1	293.7	295.5	297.1	297.1
20°	345.8	345.8	343.2	336.2	331.0	329.3	327.5	327.5	331.8	333.6	331.8
22.5°	389.2	387.4	385.7	377.1	371.9	367.4	367.4	366.6	371.9	375.3	374.5
25°	438.7	436.9	431.7	422.3	416.2	411.0	410.0	410.0	418.8	424.0	423.1
27.5°	492.6	489.9	483.1	472.6	463.0	456.1	457.0	460.4	468.2	477.9	477.9
30°	551.6	549.9	538.7	528.3	512.7	503.9	505.7	515.2	525.6	536.1	536.8
32.5°	616.9	613.4	600.3	586.5	567.3	556.1	559.6	570.9	586.5	602.0	602.9
35°	689.0	685.4	669.9	650.7	626.4	611.7	616.9	634.3	655.0	673.3	674.2
37.5°	767.2	761.9	742.8	722.9	689.8	672.4	681.2	703.7	728.0	748.8	751.5
40°	847.1	847.1	826.3	799.3	759.3	738.4	748.0	778.4	809.7	828.9	833.2
42.5°	936.6	937.4	913.9	881.9	835.0	810.6	821.9	857.5	895.7	916.6	920.9
45°	1030.4	1033.1	1015.7	970.4	916.6	887.0	900.1	945.2	987.9	1009.5	1013.0
47.5°	1131.1	1134.6	1118.1	1066.0	1004.3	972.1	986.1	1037.4	1086.9	1107.7	1111.2
50°	1238.0	1240.6	1220.6	1169.5	1099.9	1060.8	1078.1	1135.5	1186.8	1207.6	1212.8
52.5°	1348.4	1351.1	1331.8	1280.7	1199.7	1156.4	1177.1	1237.1	1294.5	1312.8	1313.6
55°	1459.6	1463.0	1446.5	1390.9	1304.1	1254.6	1278.0	1341.3	1403.2	1420.5	1425.7
57.5°	1569.0	1572.6	1565.6	1503.0	1410.1	1353.6	1380.5	1450.0	1510.8	1524.8	1525.6
60°	1671.6	1677.7	1672.5	1610.8	1510.0	1448.2	1477.0	1549.9	1610.8	1622.0	1623.7
62.5°	1761.9	1765.3	1768.0	1712.3	1598.5	1531.7	1563.8	1639.3	1698.4	1705.4	1704.5
65°	1823.6	1830.6	1839.2	1785.4	1670.7	1598.5	1631.6	1705.4	1760.1	1765.3	1761.9
67.5°	1847.0	1856.5	1875.8	1828.0	1715.0	1639.3	1671.6	1740.1	1787.1	1789.8	1783.7
68°	1847.0	1855.8	1878.4	1831.5	1719.4	1643.8	1675.0	1742.8	1787.9	1787.9	1782.7
70°	1820.1	1832.4	1861.7	1826.3	1720.3	1647.2	1674.1	1732.4	1770.6	1763.6	1755.8
72.5°	1734.9	1748.9	1788.9	1767.1	1680.2	1615.2	1634.1	1676.7	1694.2	1680.2	1672.5
75°	1587.2	1602.0	1656.7	1653.3	1591.6	1537.8	1549.0	1568.3	1568.3	1542.1	1528.1
77.5°	1401.4	1415.3	1469.1	1490.8	1461.4	1421.4	1421.4	1416.9	1395.2	1351.8	1339.7
80°	1180.7	1192.9	1250.3	1296.3	1291.0	1268.4	1257.9	1230.1	1192.1	1144.3	1126.8
82.5°	960.0	973.0	1028.6	1075.6	1106.0	1097.3	1079.0	1035.6	979.2	926.2	915.7
85°	761.0	765.4	823.7	883.6	918.2	921.8	902.6	847.1	788.8	736.7	724.6
87.5°	593.4	599.4	647.3	708.0	750.7	754.0	735.1	678.5	622.0	575.2	564.8
90°	456.1	465.7	503.9	558.7	599.4	608.2	589.1	538.7	485.7	443.0	434.4
92.5°	351.9	358.0	391.8	438.7	476.1	487.4	470.1	425.6	379.7	342.3	338.8
95°	276.3	278.0	305.0	344.9	376.2	390.9	374.5	337.1	297.1	266.7	263.3
97.5°	213.7	217.2	238.9	272.7	301.6	311.1	298.9	267.5	234.5	205.9	203.2
100°	165.9	168.5	187.7	218.1	241.6	250.2	240.7	214.5	184.2	161.5	161.5
102.5°	132.1	132.9	148.6	173.7	192.9	200.7	193.8	172.0	146.0	127.6	128.5
105°	106.0	106.0	118.1	140.8	159.0	164.2	158.1	139.0	116.4	102.5	102.5
107.5°	85.1	86.0	95.6	114.7	131.2	136.5	131.2	113.8	93.9	83.5	83.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	70.3	70.3	77.3	93.9	108.5	113.8	108.5	93.0	76.4	67.7	67.7
112.5°	58.2	58.2	63.4	77.3	90.4	95.6	90.4	76.4	62.5	56.5	56.5
115°	49.5	49.5	53.0	64.3	75.5	79.9	75.5	64.3	52.1	48.7	48.7
117.5°	42.6	42.6	45.2	53.9	63.4	67.7	63.4	53.0	44.2	41.7	41.7
120°	37.4	37.4	38.2	44.2	53.0	56.5	53.0	44.2	37.4	35.7	35.7
122.5°	32.2	32.2	32.2	37.4	44.2	46.9	43.5	37.4	32.2	31.4	31.4
125°	28.7	27.8	28.7	31.4	36.6	40.0	36.6	31.4	27.8	27.8	27.8
127.5°	25.2	25.2	24.3	26.1	30.5	32.2	30.5	26.1	24.3	24.3	24.3
130°	21.6	21.6	21.6	22.5	24.3	26.1	25.2	22.5	21.6	21.6	21.6
132.5°	19.1	19.1	18.2	19.1	20.0	20.8	20.0	18.2	18.2	19.1	19.1
135°	16.4	16.4	16.4	15.6	15.6	16.4	15.6	15.6	16.4	16.4	16.4
137.5°	14.7	14.7	14.0	13.0	12.1	12.1	12.1	13.0	14.0	14.0	14.7
140°	12.1	12.1	11.3	10.4	9.5	9.5	9.5	10.4	11.3	12.1	12.1
142.5°	10.4	10.4	9.5	7.8	6.9	6.1	6.9	7.8	8.8	9.5	9.5
145°	7.8	7.8	6.9	6.1	5.2	4.3	4.3	6.1	6.9	7.8	7.8
147.5°	6.1	6.1	5.2	4.3	3.5	2.6	2.6	4.3	5.2	6.1	6.1
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	0.9	0.9	0.9	1.7	1.7	2.6	2.6
155°	0.9	1.7	0.9	0.9	0.9	0.0	0.9	0.9	0.9	1.7	1.7
157.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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)