

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: P266169

Luminaire Tested: **LXF.LXT-AF24-80-D-U-5WQ-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-18)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-80-D-U-5WQ-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7041.1 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

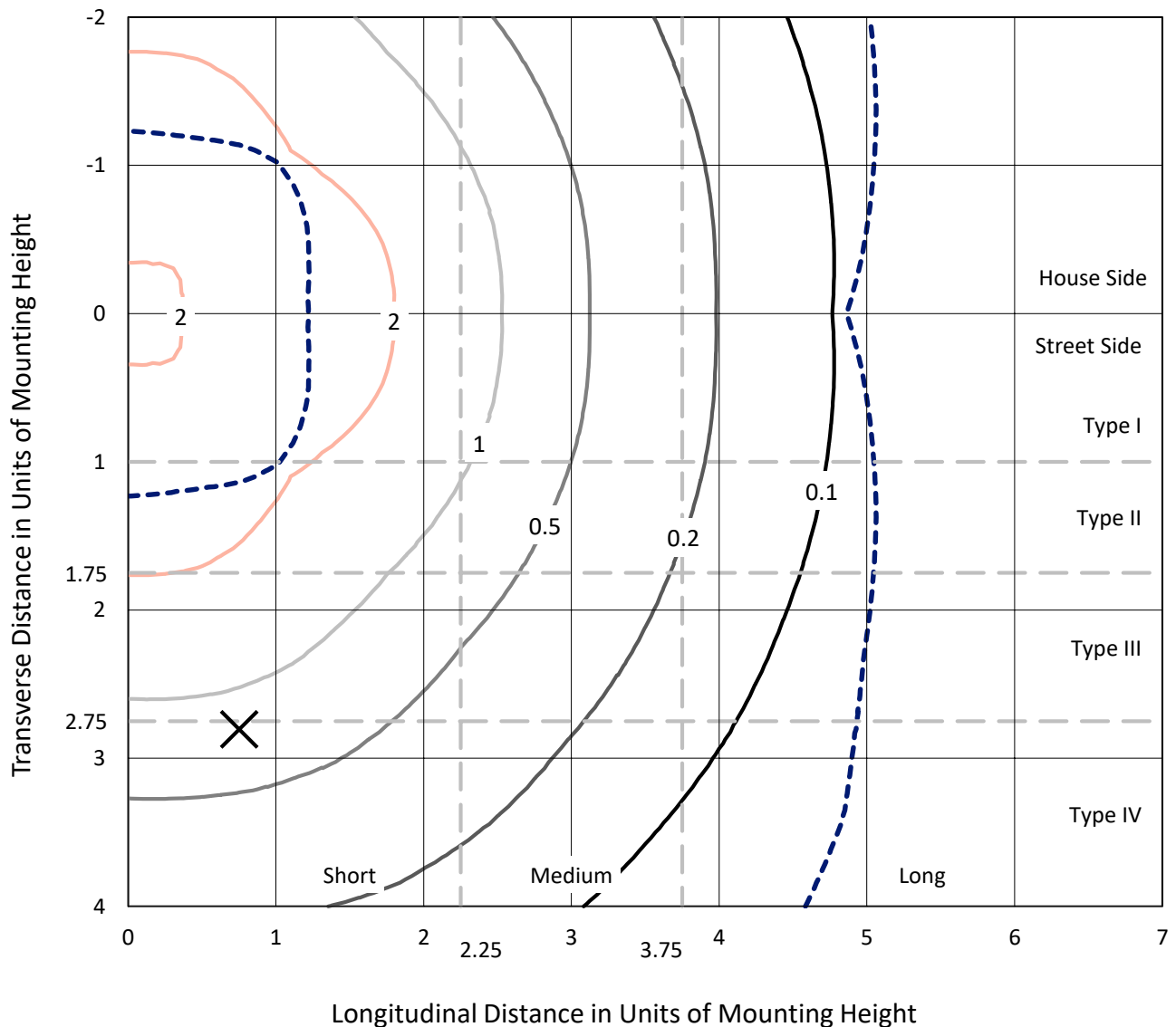
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

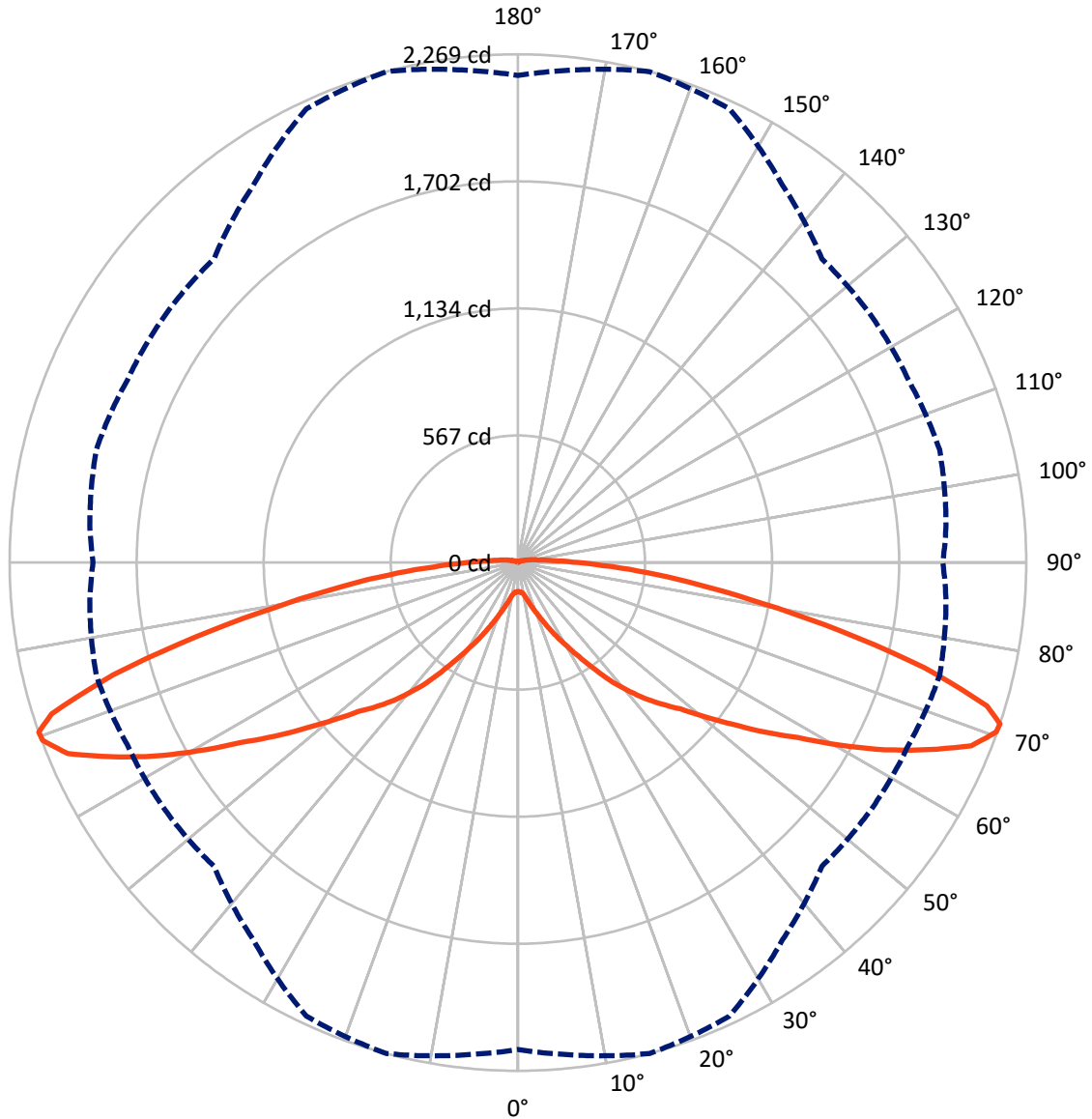


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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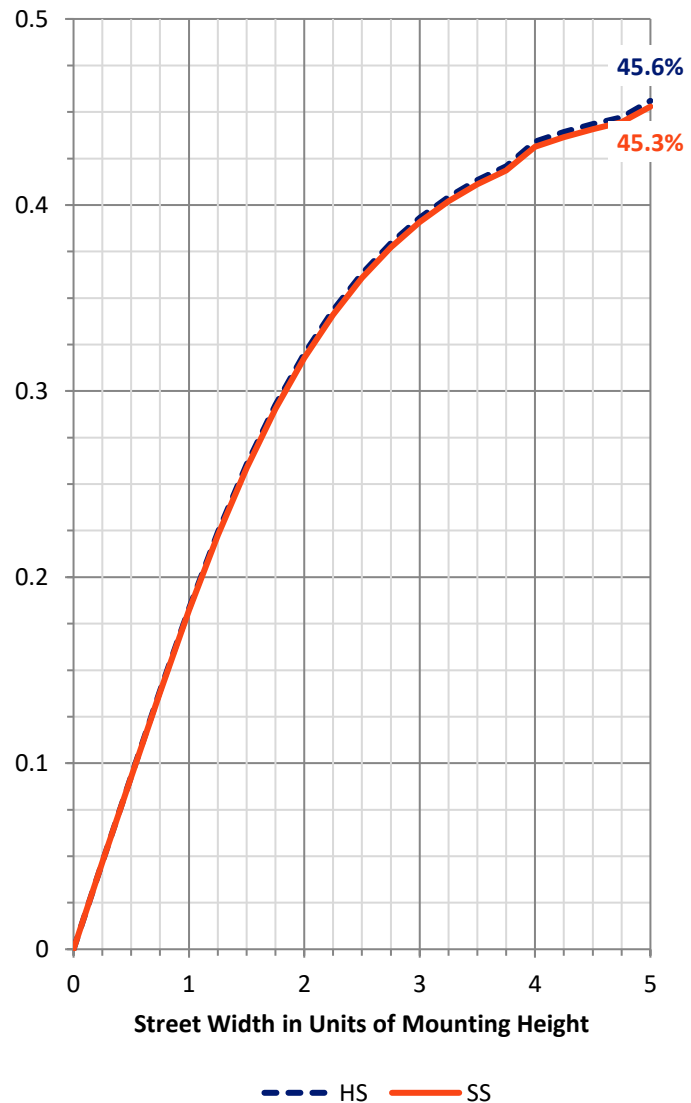
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3373.7	146.9	3520.5
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3373.7	146.9	3520.5
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	6747.3	293.8	7041.1
	% Fixture	95.8	4.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.9	0.2
10°-20°	52.2	0.7
20°-30°	147.7	2.1
30°-40°	344.2	4.9
40°-50°	642.6	9.1
50°-60°	1146.6	16.3
60°-70°	1879.9	26.7
70°-80°	1758.4	25.0
80°-90°	762.7	10.8
90°-100°	192.6	2.7
100°-110°	56.2	0.8
110°-120°	23.1	0.3
120°-130°	12.2	0.2
130°-140°	6.7	0.1
140°-150°	2.6	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6747.3	95.8
0°-180°	7041.1	100.0

**Coefficient of Utilization**



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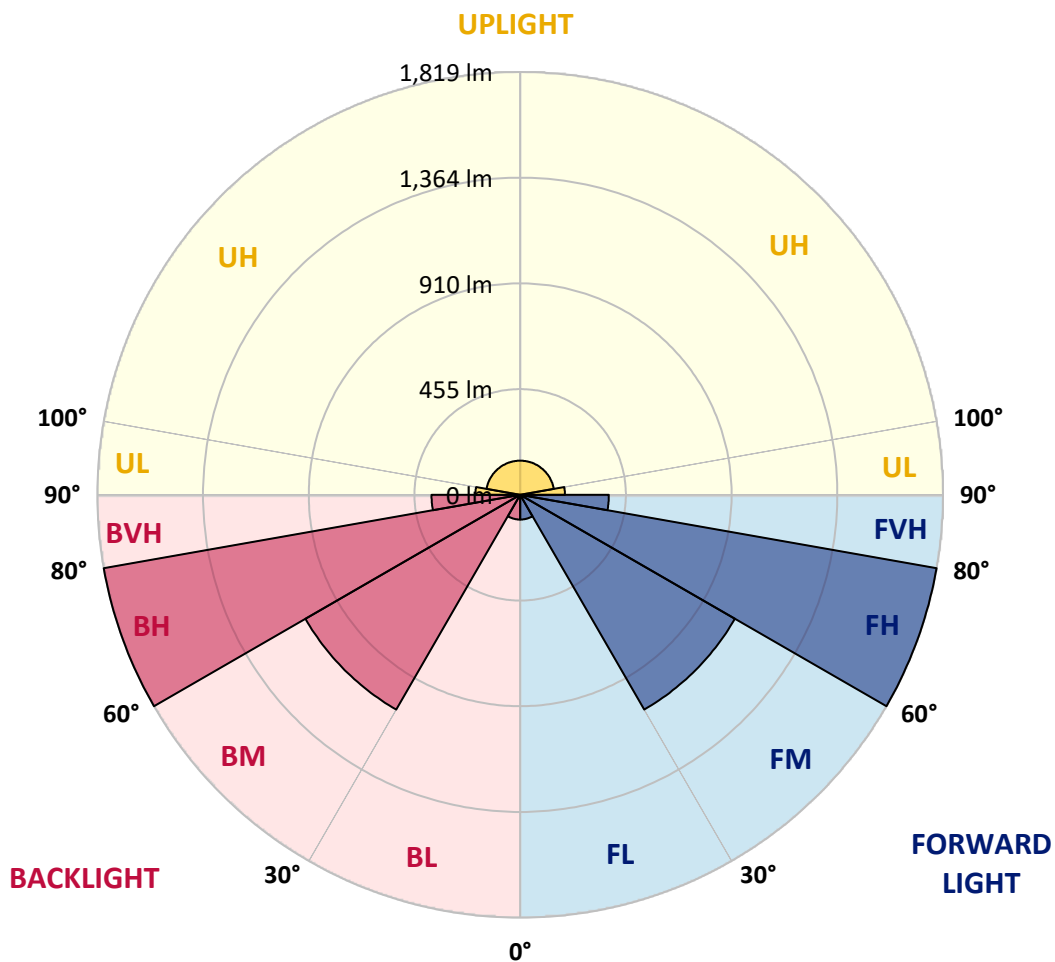
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.4	1.5			
FM	(30°-60°)	1066.8	15.2			
FH	(60°-80°)	1819.1	25.8			G2/5000
FVH	(80°-90°)	381.3	5.4			G3/500
BL	(0°-30°)	106.4	1.5	B0/110		
BM	(30°-60°)	1066.8	15.2	B2/2500		
BH	(60°-80°)	1819.1	25.8	B3/2500		G2/5000
BVH	(80°-90°)	381.3	5.4			G3/500
UL	(90°-100°)	192.6	2.7		U3/500	
UH	(100°-180°)	146.9	2.1		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°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
2.5°	130.6	130.6	130.6	131.3	131.3	131.3	130.6	130.6	129.7	129.7	129.7
5°	132.9	132.9	132.9	132.9	132.9	132.9	132.1	132.1	131.3	131.3	131.3
7.5°	136.9	136.9	136.9	136.9	136.9	136.2	135.3	134.4	134.4	134.4	134.4
10°	145.6	145.6	144.8	144.1	143.3	141.7	141.7	140.9	140.9	140.9	141.7
12.5°	163.9	163.9	161.5	157.6	152.8	151.3	150.5	152.1	154.4	155.1	156.8
15°	187.8	187.8	184.6	178.3	171.0	164.7	166.4	171.0	175.1	177.4	179.0
17.5°	217.3	217.3	212.4	203.7	193.3	189.5	188.6	195.0	201.3	206.2	209.3
20°	249.9	249.9	243.5	231.7	221.3	218.8	218.1	222.8	232.4	239.6	242.7
22.5°	289.8	290.5	280.9	265.0	254.7	249.9	249.1	255.5	270.6	280.9	284.9
25°	339.0	339.0	328.7	306.4	292.0	284.1	285.8	297.7	319.2	333.5	335.8
27.5°	393.9	392.3	378.8	354.9	334.3	322.3	326.3	344.6	370.9	392.3	395.6
30°	455.3	453.6	434.5	409.1	379.7	365.3	371.7	397.9	433.7	464.0	467.9
32.5°	526.0	524.5	500.5	467.9	428.9	409.8	421.8	459.3	503.1	541.9	547.5
35°	611.1	609.6	577.8	532.4	484.6	461.5	477.4	522.9	574.6	621.5	628.8
37.5°	700.3	700.3	666.9	608.8	545.9	517.3	534.9	586.6	647.8	694.0	701.9
40°	781.5	781.5	748.1	691.5	615.2	577.0	595.2	648.5	703.6	745.0	752.9
42.5°	856.4	858.7	827.7	769.6	687.7	643.8	655.0	701.9	758.3	804.6	812.5
45°	916.0	920.9	901.7	846.7	764.7	713.1	717.0	770.3	837.2	885.8	895.3
47.5°	988.5	989.3	975.6	923.9	846.7	790.2	793.5	856.4	929.6	979.7	984.5
50°	1091.1	1093.4	1081.5	1022.6	941.5	877.9	893.8	959.0	1049.7	1102.9	1104.6
52.5°	1204.8	1207.3	1198.5	1144.4	1051.2	990.0	1014.6	1090.4	1180.3	1224.7	1223.2
55°	1324.3	1329.9	1334.6	1284.4	1185.9	1122.9	1156.4	1235.1	1318.7	1362.5	1357.7
57.5°	1457.2	1461.2	1473.8	1429.4	1341.0	1279.6	1321.9	1400.6	1485.8	1527.9	1520.8
60°	1639.4	1645.8	1656.1	1594.9	1503.4	1454.7	1501.0	1584.5	1671.2	1696.7	1687.1
62.5°	1805.0	1812.2	1840.7	1794.6	1675.2	1624.2	1685.6	1766.0	1838.4	1850.2	1834.3
65°	1966.5	1974.5	2013.6	1973.7	1855.1	1782.6	1847.2	1913.2	1980.9	1989.6	1973.7
67.5°	2113.7	2135.2	2182.3	2127.2	1993.6	1910.9	1947.4	2000.7	2060.4	2050.1	2030.2
70°	2189.3	2217.1	2264.9	2226.8	2061.3	1936.2	1956.1	1972.0	2000.7	1986.4	1968.8
71°	2174.2	2202.9	2268.8	2233.9	2057.3	1918.1	1923.5	1924.3	1948.2	1918.1	1896.5
72.5°	2066.0	2096.3	2189.3	2194.1	2017.5	1865.4	1840.7	1820.9	1808.2	1754.0	1737.3
75°	1729.3	1769.1	1873.3	1933.2	1834.3	1686.4	1643.4	1576.5	1540.0	1477.9	1473.8
77.5°	1345.8	1372.0	1473.8	1564.6	1537.5	1442.0	1393.5	1328.2	1290.1	1241.5	1212.8
80°	1002.8	1011.5	1103.8	1206.6	1237.5	1199.3	1163.6	1104.6	1059.2	1012.3	987.6
82.5°	713.1	729.9	813.3	924.7	997.9	999.5	974.1	908.0	857.2	807.8	788.7
85°	482.3	499.0	580.1	698.0	792.7	833.3	807.8	721.0	644.7	587.3	575.4
87.5°	302.4	318.3	377.2	482.3	607.3	669.2	639.9	532.4	445.6	393.2	382.8
90°	198.2	207.7	242.7	311.2	418.6	504.6	471.2	370.9	296.8	249.9	245.1
92.5°	136.9	140.0	161.5	201.3	278.6	347.7	323.1	249.9	195.0	161.5	156.8
95°	97.8	101.1	114.7	138.5	186.2	228.3	214.9	169.5	132.9	109.9	106.7
97.5°	72.5	74.7	86.7	102.6	131.3	153.6	144.1	120.2	97.0	79.6	77.3
100°	56.6	57.3	67.6	79.6	97.8	109.9	102.6	89.9	74.7	62.1	60.5
102.5°	44.6	45.4	53.3	62.9	75.5	84.4	78.8	69.2	58.1	49.3	48.6
105°	35.0	35.8	41.4	50.1	60.5	66.0	62.1	54.1	44.6	38.2	38.2
107.5°	27.8	28.7	32.6	39.7	48.6	53.3	50.1	42.2	35.0	30.3	30.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	23.0	23.0	26.3	31.8	39.7	43.7	40.7	33.4	27.8	24.7	23.9
112.5°	19.1	19.1	21.5	26.3	32.6	35.8	33.4	27.0	22.3	19.9	19.9
115°	15.9	16.7	17.4	22.3	27.8	30.3	27.8	23.0	18.2	16.7	16.7
117.5°	14.4	14.4	15.9	19.1	23.9	26.3	23.9	19.9	15.9	15.1	15.1
120°	12.8	12.8	13.6	15.9	20.8	22.3	20.8	16.7	14.4	13.6	13.6
122.5°	11.9	11.9	11.9	14.4	17.4	19.9	18.2	15.1	12.8	11.9	11.9
125°	11.1	11.1	11.1	12.8	15.9	16.7	15.9	13.6	11.1	11.1	11.1
127.5°	11.1	11.1	11.1	11.9	13.6	15.1	14.4	11.9	10.3	10.3	10.3
130°	10.3	10.3	10.3	11.1	11.9	12.8	11.9	11.1	10.3	10.3	10.3
132.5°	9.5	9.5	9.5	9.5	10.3	11.1	10.3	9.5	9.5	9.5	9.5
135°	8.8	8.8	8.8	7.9	8.8	9.5	8.8	7.9	7.9	8.8	8.8
137.5°	7.9	7.9	7.1	7.1	7.1	7.9	7.1	7.1	7.1	7.1	7.9
140°	7.1	7.1	6.4	6.4	6.4	6.4	5.6	5.6	5.6	6.4	6.4
142.5°	6.4	5.6	5.6	4.9	4.9	4.9	4.9	4.0	4.9	5.6	5.6
145°	4.9	4.9	4.9	4.0	4.0	4.0	3.1	3.1	4.0	4.0	4.0
147.5°	4.0	4.0	3.1	3.1	2.3	2.3	2.3	2.3	3.1	3.1	3.1
150°	3.1	3.1	2.3	2.3	1.5	1.5	1.5	1.5	2.3	2.3	2.3
152.5°	2.3	2.3	1.5	1.5	1.5	0.8	0.8	0.8	1.5	1.5	1.5
155°	1.5	1.5	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)