

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: P254264

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254264  
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-AF24-100-D-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA 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: 9050.1 lumens  
Efficiency: N/A  
Efficacy: 94.3 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): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

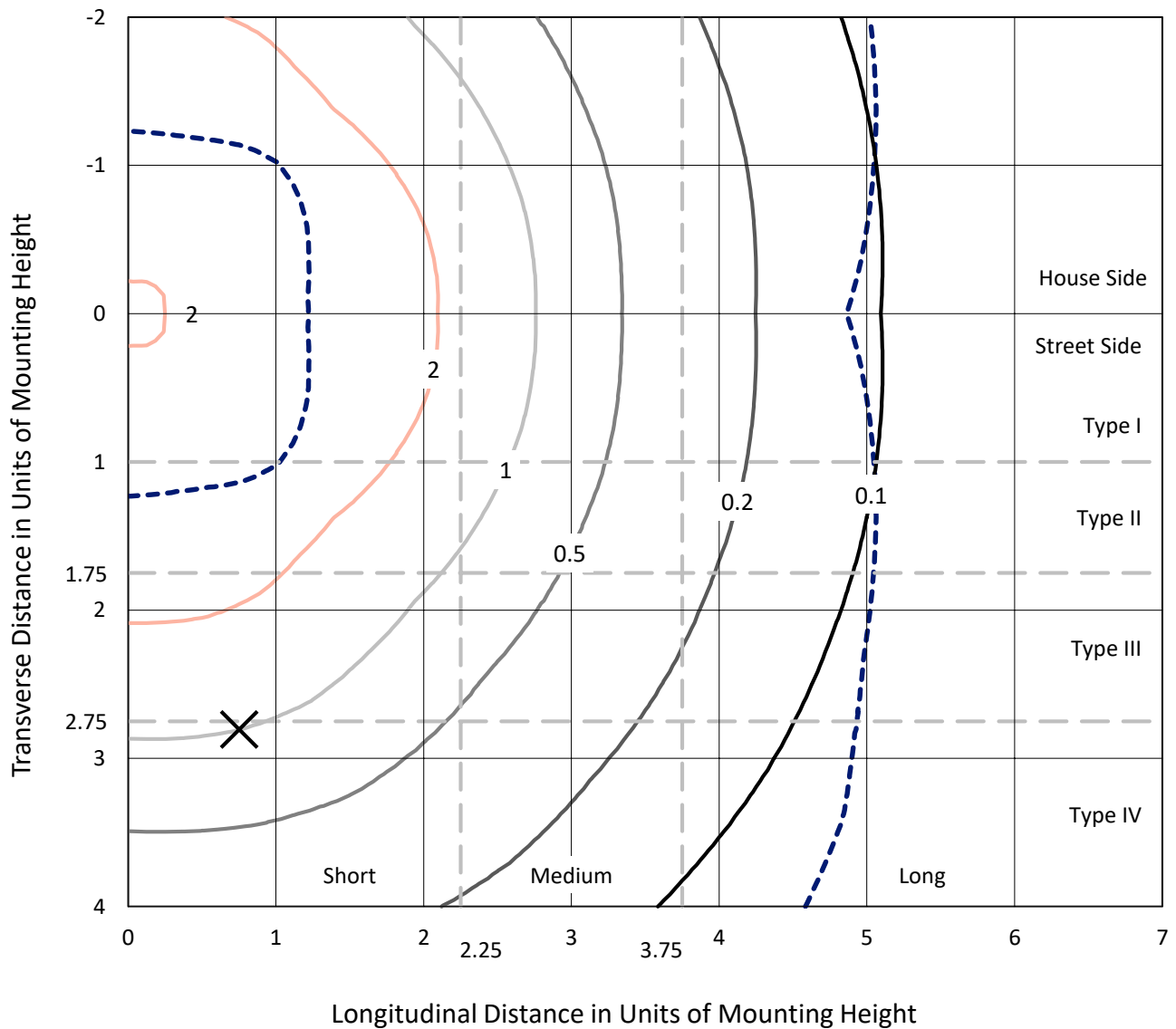


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

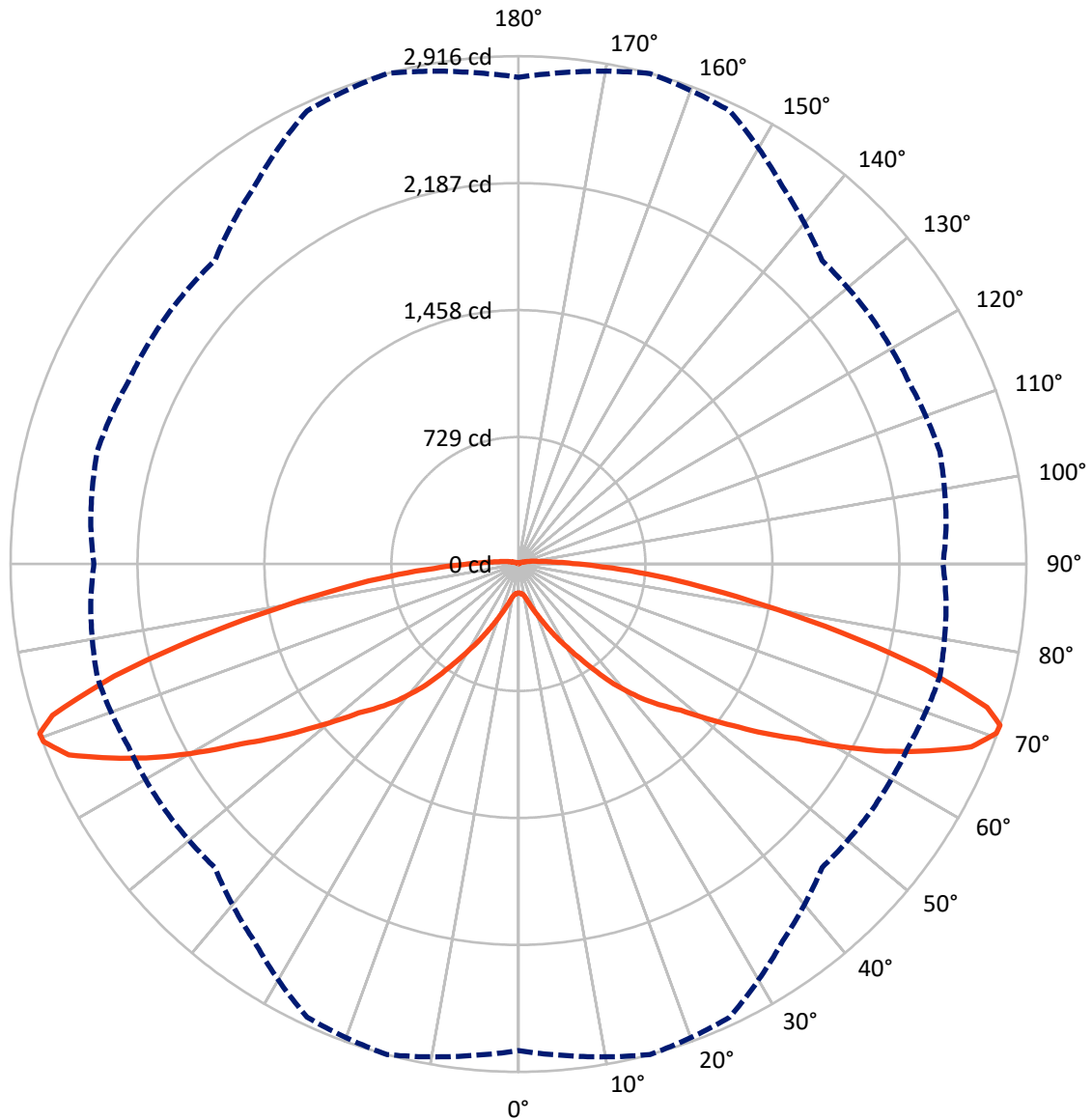


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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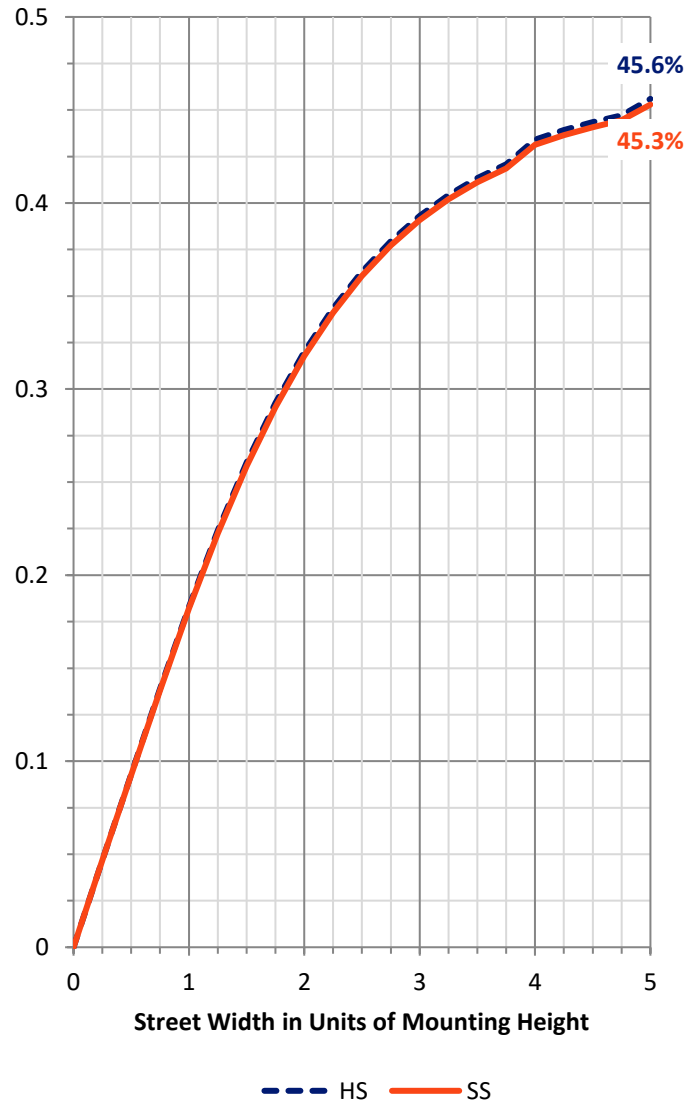
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4336.2	188.8	4525.1
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	4336.2	188.8	4525.1
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	8672.4	377.7	9050.1
	% Fixture	95.8	4.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.6	0.2
10°-20°	67.1	0.7
20°-30°	189.9	2.1
30°-40°	442.5	4.9
40°-50°	826.0	9.1
50°-60°	1473.8	16.3
60°-70°	2416.2	26.7
70°-80°	2260.1	25.0
80°-90°	980.3	10.8
90°-100°	247.6	2.7
100°-110°	72.2	0.8
110°-120°	29.7	0.3
120°-130°	15.7	0.2
130°-140°	8.7	0.1
140°-150°	3.3	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8672.4	95.8
0°-180°	9050.1	100.0



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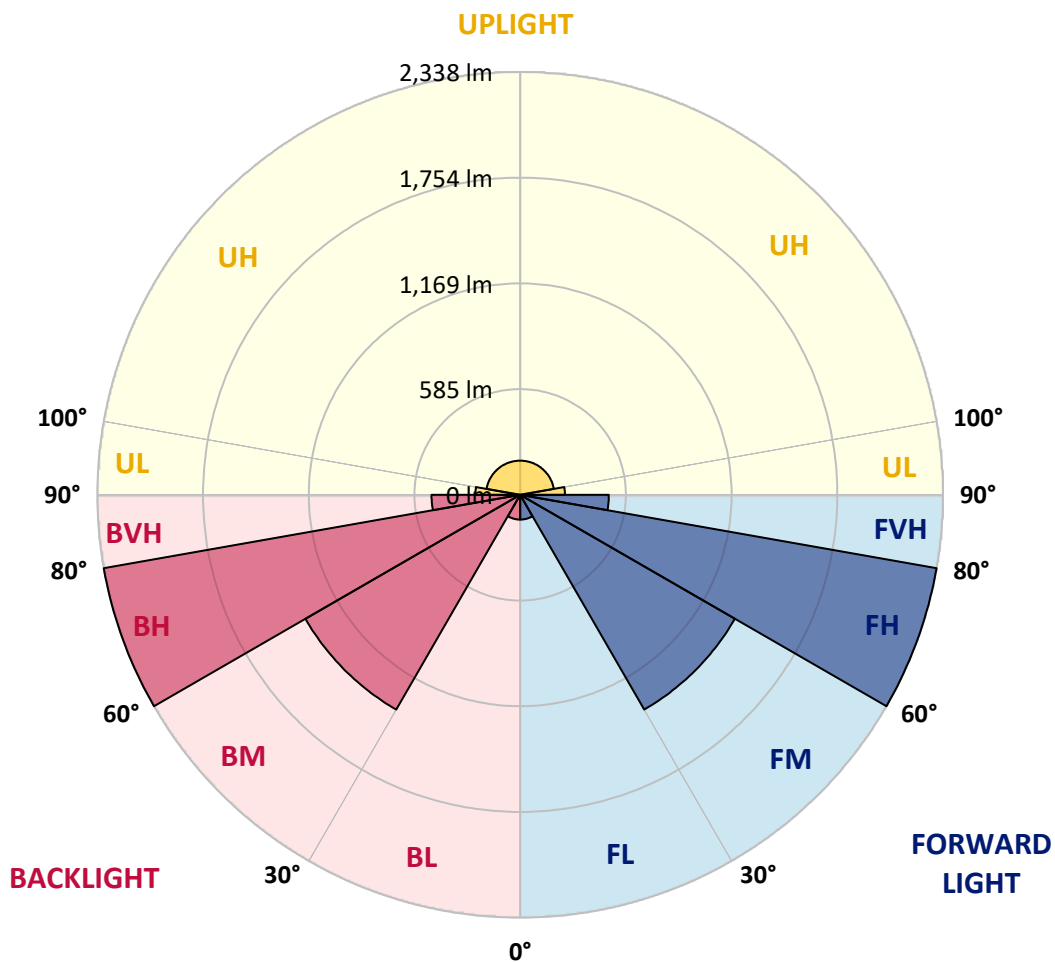
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.8	1.5			
FM (30°-60°)	1371.1	15.2			
FH (60°-80°)	2338.1	25.8			G2/5000
FVH (80°-90°)	490.1	5.4			G3/500
BL (0°-30°)	136.8	1.5	B1/500		
BM (30°-60°)	1371.1	15.2	B2/2500		
BH (60°-80°)	2338.1	25.8	B3/2500		G2/5000
BVH (80°-90°)	490.1	5.4			G3/500
UL (90°-100°)	247.6	2.7		U3/500	
UH (100°-180°)	188.8	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°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
2.5°	167.8	167.8	167.8	168.8	168.8	168.8	167.8	167.8	166.7	166.7	166.7
5°	170.8	170.8	170.8	170.8	170.8	170.8	169.8	169.8	168.8	168.8	168.8
7.5°	175.9	175.9	175.9	175.9	175.9	174.9	173.9	172.9	172.9	172.9	172.9
10°	187.2	187.2	186.2	185.2	184.1	182.1	182.1	181.1	181.1	181.1	182.1
12.5°	210.7	210.7	207.7	202.5	196.4	194.4	193.3	195.4	198.5	199.5	201.5
15°	241.4	241.4	237.3	229.1	219.9	211.8	213.8	219.9	225.0	228.1	230.2
17.5°	279.3	279.3	273.1	261.9	248.6	243.5	242.4	250.6	258.8	264.9	269.0
20°	321.2	321.2	313.0	297.7	284.4	281.3	280.3	286.4	298.7	307.9	312.0
22.5°	372.4	373.4	361.1	340.6	327.3	321.2	320.2	328.4	347.8	361.1	366.2
25°	435.8	435.8	422.5	393.8	375.4	365.2	367.2	382.6	410.2	428.6	431.7
27.5°	506.4	504.3	486.9	456.2	429.6	414.3	419.4	442.9	476.7	504.3	508.4
30°	585.1	583.1	558.5	525.8	487.9	469.5	477.7	511.5	557.5	596.4	601.5
32.5°	676.2	674.1	643.4	601.5	551.4	526.8	542.2	590.2	646.5	696.6	703.8
35°	785.6	783.6	742.7	684.4	623.0	593.3	613.8	672.1	738.6	798.9	808.1
37.5°	900.2	900.2	857.2	782.6	701.7	664.9	687.4	753.9	832.7	892.0	902.2
40°	1004.4	1004.4	961.5	888.9	790.7	741.6	765.2	833.7	904.3	957.4	967.6
42.5°	1100.6	1103.7	1063.8	989.1	883.8	827.6	841.9	902.2	974.8	1034.1	1044.3
45°	1177.3	1183.5	1158.9	1088.3	983.0	916.6	921.7	990.1	1076.0	1138.4	1150.7
47.5°	1270.4	1271.4	1254.0	1187.5	1088.3	1015.7	1019.8	1100.6	1194.7	1259.2	1265.3
50°	1402.4	1405.4	1390.1	1314.4	1210.0	1128.2	1148.7	1232.6	1349.2	1417.7	1419.8
52.5°	1548.6	1551.7	1540.5	1470.9	1351.2	1272.4	1304.2	1401.3	1516.9	1574.2	1572.2
55°	1702.1	1709.2	1715.4	1650.9	1524.1	1443.3	1486.2	1587.5	1694.9	1751.2	1745.1
57.5°	1872.9	1878.0	1894.4	1837.1	1723.6	1644.8	1699.0	1800.3	1909.7	1964.0	1954.8
60°	2107.2	2115.4	2128.7	2049.9	1932.3	1869.9	1929.2	2036.6	2148.1	2180.8	2168.6
62.5°	2320.0	2329.2	2366.0	2306.7	2153.2	2087.7	2166.5	2269.8	2362.9	2378.3	2357.8
65°	2527.6	2537.8	2588.0	2536.8	2384.4	2291.3	2374.2	2459.1	2546.0	2557.3	2536.8
67.5°	2716.9	2744.5	2804.7	2734.2	2562.4	2456.0	2503.1	2571.6	2648.3	2635.0	2609.4
70°	2813.9	2849.7	2911.1	2862.0	2649.3	2488.7	2514.3	2534.8	2571.6	2553.2	2530.7
71°	2794.5	2831.3	2916.2	2871.2	2644.2	2465.2	2472.4	2473.4	2504.1	2465.2	2437.6
72.5°	2655.5	2694.4	2813.9	2820.1	2593.1	2397.7	2366.0	2340.4	2324.0	2254.5	2233.0
75°	2222.8	2273.9	2407.9	2484.6	2357.8	2167.5	2112.3	2026.4	1979.3	1899.5	1894.4
77.5°	1729.7	1763.5	1894.4	2011.0	1976.2	1853.5	1791.1	1707.2	1658.1	1595.7	1558.9
80°	1288.8	1300.1	1418.7	1550.7	1590.6	1541.5	1495.5	1419.8	1361.4	1301.1	1269.4
82.5°	916.6	937.9	1045.4	1188.6	1282.7	1284.7	1252.0	1167.1	1101.6	1038.2	1013.6
85°	619.9	641.4	745.7	897.1	1018.8	1070.9	1038.2	926.8	828.6	754.9	739.6
87.5°	388.7	409.2	484.9	619.9	780.5	860.3	822.5	684.4	572.9	505.3	492.0
90°	254.7	267.0	312.0	400.0	538.1	648.6	605.6	476.7	381.6	321.2	315.1
92.5°	175.9	180.0	207.7	258.8	358.0	447.0	415.3	321.2	250.6	207.7	201.5
95°	125.8	129.9	147.3	178.0	239.4	293.6	276.2	217.9	170.8	141.2	137.1
97.5°	93.1	96.2	111.5	132.0	168.8	197.4	185.2	154.5	124.8	102.3	99.2
100°	72.6	73.7	87.0	102.3	125.8	141.2	132.0	115.6	96.2	79.8	77.7
102.5°	57.3	58.3	68.5	80.8	97.2	108.4	101.3	89.0	74.7	63.4	62.4
105°	45.0	46.0	53.2	64.4	77.7	84.9	79.8	69.6	57.3	49.1	49.1
107.5°	35.8	36.8	41.9	51.1	62.4	68.5	64.4	54.2	45.0	38.9	38.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	29.7	29.7	33.8	40.9	51.1	56.3	52.2	43.0	35.8	31.7	30.7
112.5°	24.6	24.6	27.6	33.8	41.9	46.0	43.0	34.8	28.6	25.6	25.6
115°	20.5	21.5	22.5	28.6	35.8	38.9	35.8	29.7	23.5	21.5	21.5
117.5°	18.4	18.4	20.5	24.6	30.7	33.8	30.7	25.6	20.5	19.4	19.4
120°	16.4	16.4	17.4	20.5	26.6	28.6	26.6	21.5	18.4	17.4	17.4
122.5°	15.3	15.3	15.3	18.4	22.5	25.6	23.5	19.4	16.4	15.3	15.3
125°	14.3	14.3	14.3	16.4	20.5	21.5	20.5	17.4	14.3	14.3	14.3
127.5°	14.3	14.3	14.3	15.3	17.4	19.4	18.4	15.3	13.3	13.3	13.3
130°	13.3	13.3	13.3	14.3	15.3	16.4	15.3	14.3	13.3	13.3	13.3
132.5°	12.3	12.3	12.3	12.3	13.3	14.3	13.3	12.3	12.3	12.3	12.3
135°	11.3	11.3	11.3	10.2	11.3	12.3	11.3	10.2	10.2	11.3	11.3
137.5°	10.2	10.2	9.2	9.2	9.2	10.2	9.2	9.2	9.2	9.2	10.2
140°	9.2	9.2	8.2	8.2	8.2	8.2	7.2	7.2	7.2	8.2	8.2
142.5°	8.2	7.2	7.2	6.1	6.1	6.1	6.1	5.1	6.1	7.2	7.2
145°	6.1	6.1	6.1	5.1	5.1	5.1	4.1	4.1	5.1	5.1	5.1
147.5°	5.1	5.1	4.1	4.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1
150°	4.1	4.1	3.1	3.1	2.0	2.0	2.0	2.0	3.1	3.1	3.1
152.5°	3.1	3.1	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0
155°	2.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	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)