

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: P255073

Luminaire Tested: **LXF.LXT-AF24-90-D-U-5WQ-TL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P255073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-90-D-U-5WQ-TL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9008.1 lumens  
Efficiency: N/A  
Efficacy: 95.8 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 - G4

Input Watts (W): 94  
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

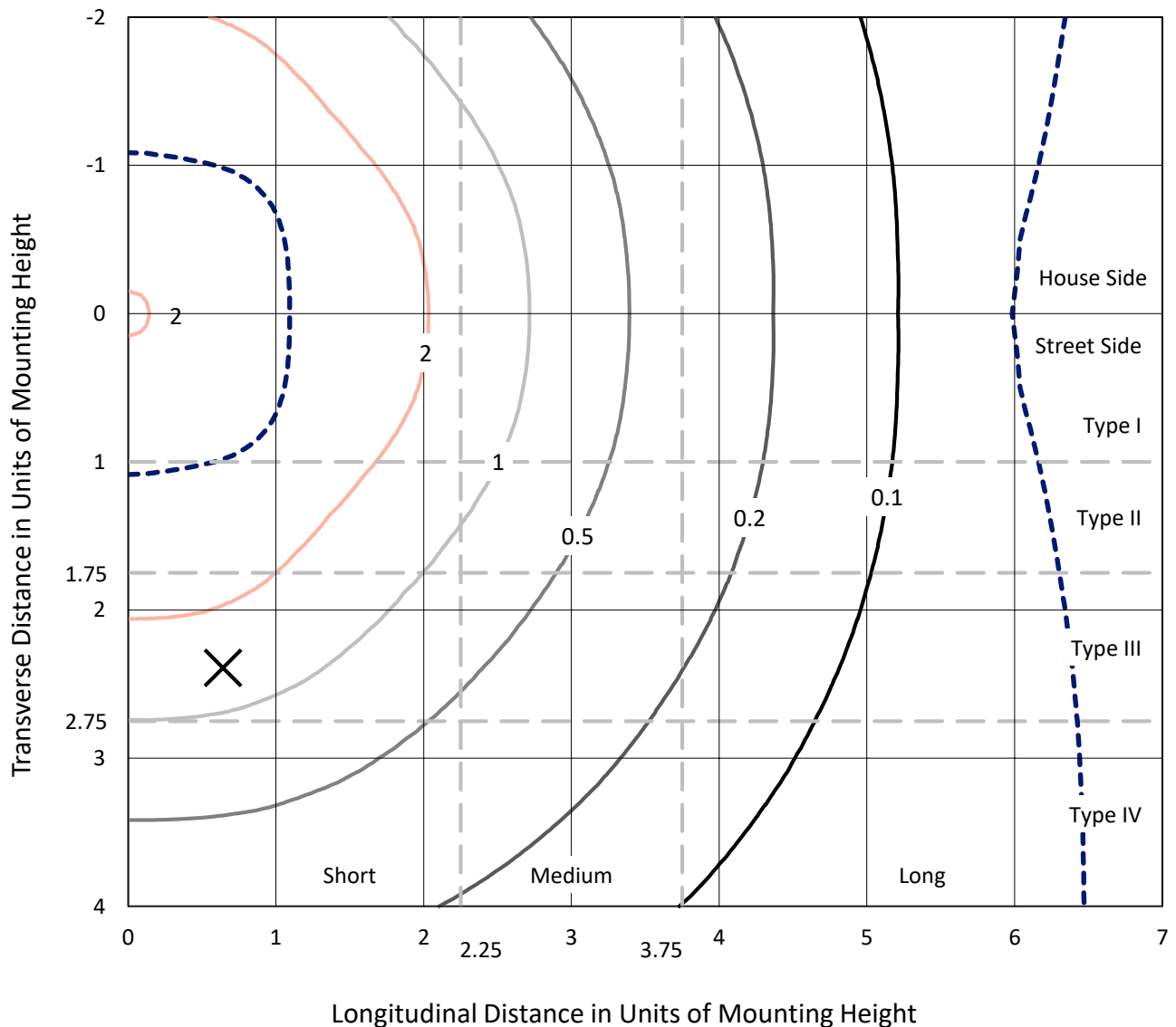


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

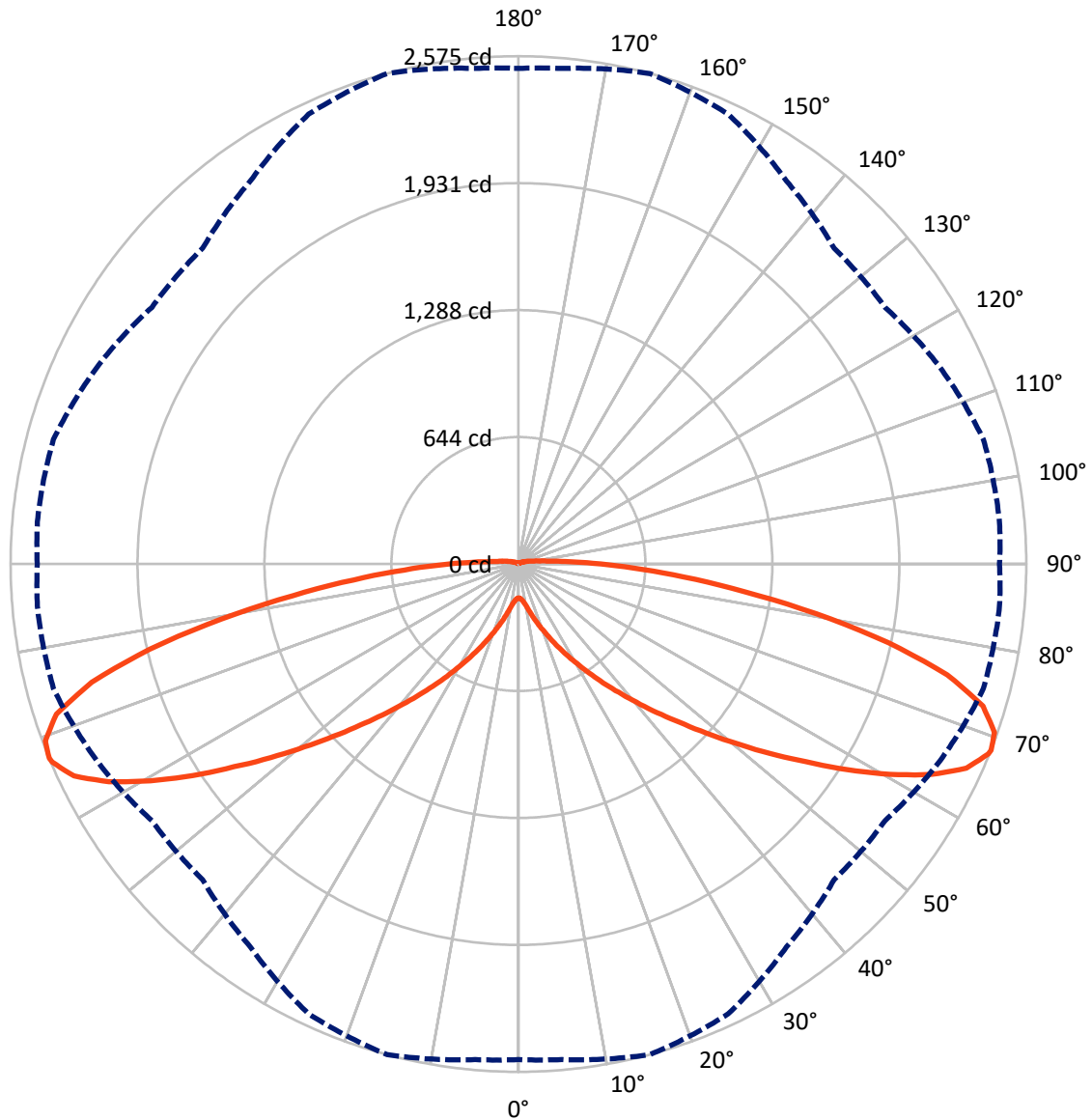


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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



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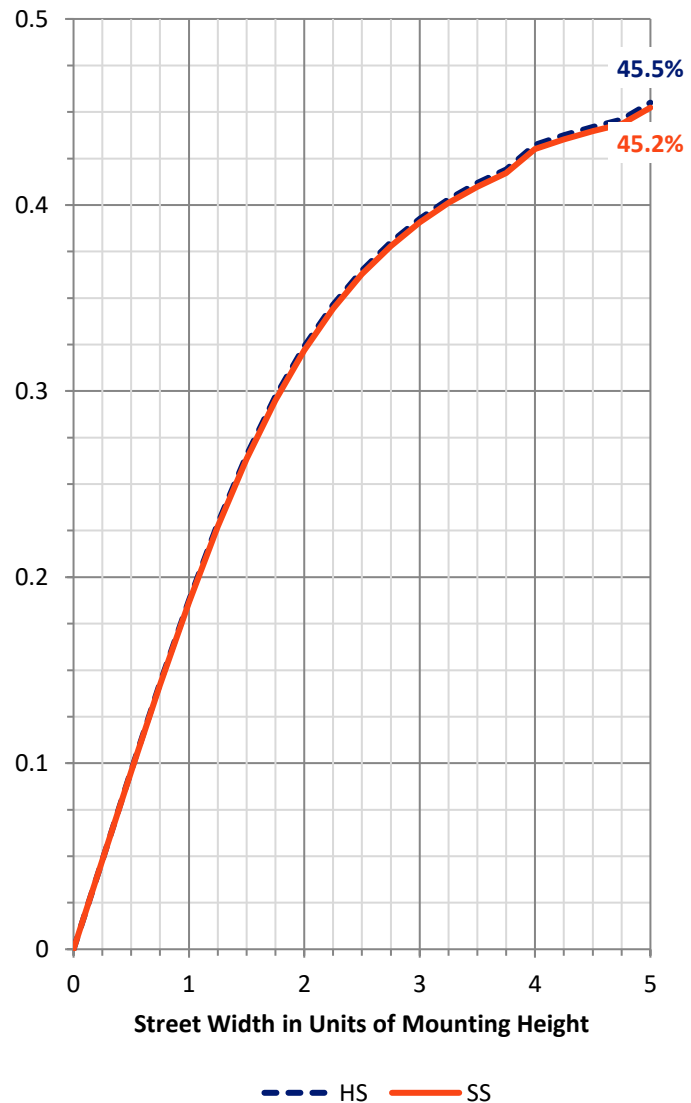
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4323.8	180.3	4504.1
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	4323.8	180.3	4504.1
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	8647.6	360.6	9008.1
	% Fixture	96.0	4.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.5	0.2
10°-20°	82.3	0.9
20°-30°	217.1	2.4
30°-40°	455.6	5.1
40°-50°	855.4	9.5
50°-60°	1511.4	16.8
60°-70°	2279.5	25.3
70°-80°	2209.4	24.5
80°-90°	1018.4	11.3
90°-100°	242.3	2.7
100°-110°	67.7	0.8
110°-120°	28.4	0.3
120°-130°	12.8	0.1
130°-140°	6.1	0.1
140°-150°	2.5	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8647.6	96.0
0°-180°	9008.1	100.0



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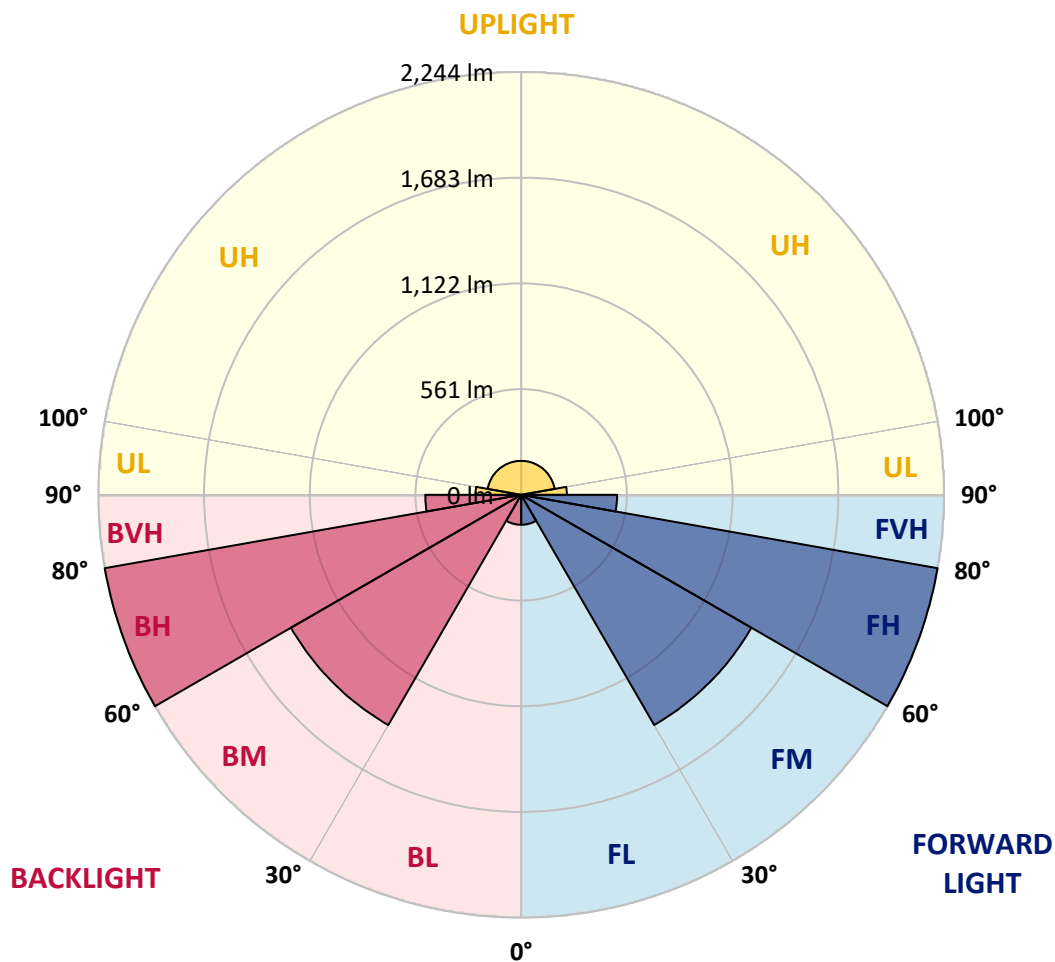
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.9	1.8			
FM	(30°-60°)	1411.2	15.7			
FH	(60°-80°)	2244.5	24.9			G2/5000
FVH	(80°-90°)	509.2	5.7			G4/750
BL	(0°-30°)	158.9	1.8	B1/500		
BM	(30°-60°)	1411.2	15.7	B2/2500		
BH	(60°-80°)	2244.5	24.9	B3/2500		G2/5000
BVH	(80°-90°)	509.2	5.7			G4/750
UL	(90°-100°)	242.3	2.7		U3/500	
UH	(100°-180°)	180.3	2.0		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°	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8	171.8
2.5°	174.8	174.8	174.8	174.8	174.8	175.7	174.8	174.8	174.8	174.8	174.8
5°	181.9	181.9	181.9	182.9	182.9	182.9	182.9	182.9	182.9	183.8	182.9
7.5°	195.0	195.0	195.0	195.0	195.0	195.0	196.0	197.0	197.0	198.0	198.0
10°	215.2	215.2	214.2	214.2	214.2	215.2	215.2	217.2	218.2	221.3	220.2
12.5°	246.5	246.5	244.5	242.4	241.4	240.4	242.4	246.5	249.5	254.6	253.6
15°	281.8	281.8	279.9	276.8	275.8	274.8	275.8	280.9	285.9	290.9	289.9
17.5°	321.3	320.3	318.2	314.1	314.1	313.2	313.2	318.2	324.3	331.3	331.3
20°	364.7	362.6	359.7	354.6	354.6	353.6	354.6	358.6	367.8	375.8	375.8
22.5°	414.2	412.1	408.2	403.1	400.1	398.0	399.1	405.1	416.2	427.4	428.3
25°	469.7	466.8	462.7	456.6	448.6	444.5	446.5	456.6	470.8	484.9	481.9
27.5°	528.4	527.3	521.3	512.2	500.1	494.0	499.1	511.2	528.4	543.5	544.5
30°	597.1	594.0	585.9	571.8	558.6	546.6	551.6	567.7	591.0	611.2	612.2
32.5°	668.8	667.8	658.7	638.5	616.2	605.2	610.2	633.4	660.7	680.9	685.0
35°	751.7	749.6	739.5	713.2	685.0	669.8	674.8	703.2	736.5	761.8	763.7
37.5°	842.6	837.5	825.4	794.1	757.7	739.5	744.6	776.9	817.3	842.6	848.6
40°	936.5	935.5	921.4	885.0	840.6	815.3	823.4	859.7	906.2	934.5	938.6
42.5°	1045.7	1043.6	1029.5	987.0	932.5	903.2	912.3	955.7	1006.3	1034.5	1039.5
45°	1160.8	1162.8	1143.7	1102.2	1038.6	1005.3	1011.3	1060.8	1116.3	1151.7	1155.7
47.5°	1294.1	1291.2	1280.0	1228.5	1155.7	1117.4	1124.4	1179.0	1244.6	1278.0	1280.0
50°	1434.6	1431.5	1427.5	1373.9	1290.1	1250.7	1254.8	1314.4	1381.0	1415.4	1424.5
52.5°	1591.2	1592.2	1594.2	1535.7	1441.6	1388.1	1397.2	1464.9	1535.7	1567.0	1575.0
55°	1764.9	1765.9	1770.0	1710.4	1604.3	1544.7	1555.8	1630.6	1706.4	1737.7	1740.7
57.5°	1957.9	1952.8	1969.0	1898.3	1782.1	1713.4	1725.5	1803.4	1884.2	1914.5	1920.5
60°	2150.9	2143.8	2166.0	2095.3	1961.9	1887.1	1893.3	1984.1	2071.1	2090.2	2103.4
62.5°	2314.5	2321.6	2350.8	2279.1	2131.6	2040.8	2050.8	2142.8	2239.8	2259.0	2261.9
65°	2442.8	2452.9	2496.4	2421.6	2275.1	2166.0	2180.1	2275.1	2375.1	2384.2	2382.2
67.5°	2510.5	2519.6	2569.1	2507.5	2358.9	2251.9	2260.0	2351.9	2436.8	2445.9	2436.8
68°	2512.6	2522.6	2575.2	2516.6	2370.1	2264.0	2269.1	2358.9	2440.8	2448.8	2439.8
70°	2482.2	2506.4	2561.1	2517.6	2380.2	2281.2	2282.2	2354.9	2432.7	2426.6	2418.6
72.5°	2365.1	2386.2	2463.1	2444.9	2329.7	2244.8	2232.7	2283.2	2328.6	2311.5	2306.4
75°	2126.6	2146.9	2245.8	2266.0	2201.4	2139.7	2110.4	2126.6	2125.6	2094.3	2082.1
77.5°	1781.1	1809.4	1918.5	1993.2	1972.0	1946.8	1897.3	1873.0	1827.6	1764.0	1743.7
80°	1384.1	1412.4	1530.5	1634.6	1677.0	1680.1	1634.6	1553.8	1462.8	1376.0	1358.8
82.5°	1026.4	1055.7	1154.7	1284.0	1339.7	1372.0	1321.4	1217.4	1115.3	1019.4	1002.2
85°	717.3	738.5	838.5	943.6	1024.4	1059.8	1004.2	915.3	812.2	729.4	713.2
87.5°	489.0	501.0	579.9	685.0	760.8	795.0	747.6	660.7	565.8	490.0	472.8
90°	310.2	318.2	376.9	464.7	541.6	571.8	534.4	458.7	371.7	310.2	299.0
92.5°	190.0	194.0	237.4	308.1	372.8	407.1	373.8	306.1	235.4	191.0	184.8
95°	124.3	127.3	152.5	198.0	251.5	276.8	254.6	204.1	156.6	127.3	123.3
97.5°	92.0	93.9	109.1	133.4	165.7	184.8	169.7	139.4	112.1	93.9	90.9
100°	71.7	72.7	82.9	98.0	116.2	127.3	119.2	102.0	84.9	71.7	70.7
102.5°	57.6	57.6	66.7	77.7	88.9	94.9	89.9	80.8	66.7	56.6	55.5
105°	45.4	46.4	53.5	63.6	71.7	75.8	72.7	65.7	53.5	44.5	43.5
107.5°	36.4	36.4	43.5	52.6	60.7	63.6	60.7	54.5	42.5	35.4	34.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	28.3	29.3	34.4	43.5	50.5	53.5	50.5	44.5	34.4	28.3	27.3
112.5°	23.2	23.2	27.3	35.4	42.5	44.5	42.5	35.4	27.3	22.2	22.2
115°	19.2	19.2	22.2	29.3	35.4	37.3	35.4	29.3	22.2	18.2	18.2
117.5°	16.2	17.2	19.2	24.2	29.3	30.3	29.3	24.2	18.2	16.2	15.1
120°	14.1	15.1	16.2	20.3	24.2	25.3	23.2	19.2	15.1	14.1	13.1
122.5°	13.1	13.1	14.1	16.2	20.3	21.2	19.2	16.2	13.1	12.2	12.2
125°	12.2	12.2	12.2	14.1	16.2	17.2	16.2	13.1	11.2	11.2	11.2
127.5°	11.2	11.2	11.2	12.2	14.1	14.1	13.1	11.2	10.1	10.1	10.1
130°	10.1	10.1	10.1	10.1	11.2	12.2	11.2	10.1	9.1	9.1	9.1
132.5°	9.1	9.1	9.1	9.1	9.1	10.1	9.1	8.1	8.1	8.1	8.1
135°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.1	7.1	7.1	7.1
137.5°	7.1	7.1	7.1	7.1	7.1	7.1	6.0	6.0	6.0	7.1	7.1
140°	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0
142.5°	6.0	6.0	5.0	5.0	4.1	4.1	4.1	4.1	5.0	5.0	5.0
145°	5.0	5.0	4.1	4.1	4.1	3.1	3.1	4.1	4.1	4.1	4.1
147.5°	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.1	3.1	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	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)