

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: P254532

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-23)  
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-CL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8328.8 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G2

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

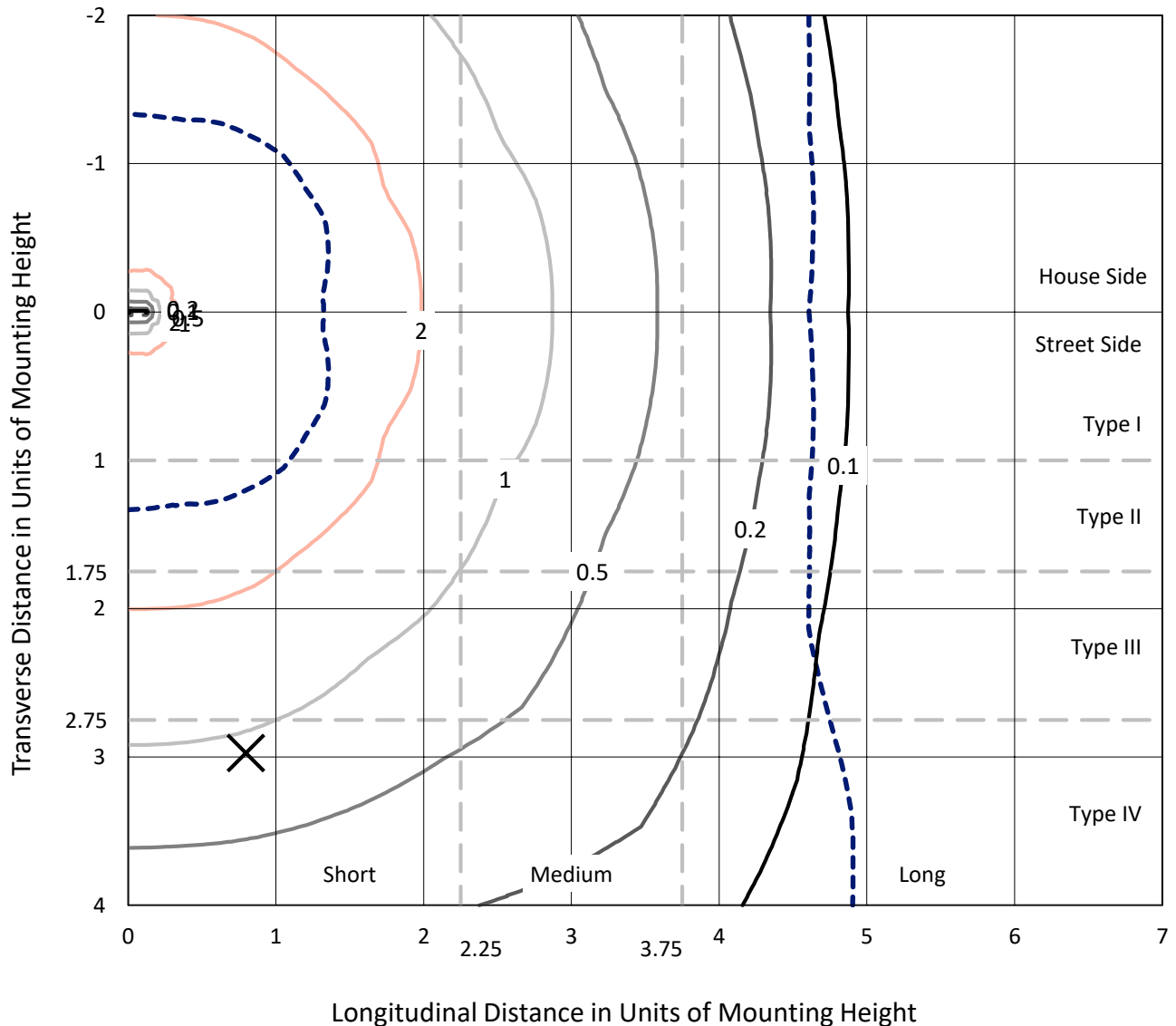


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

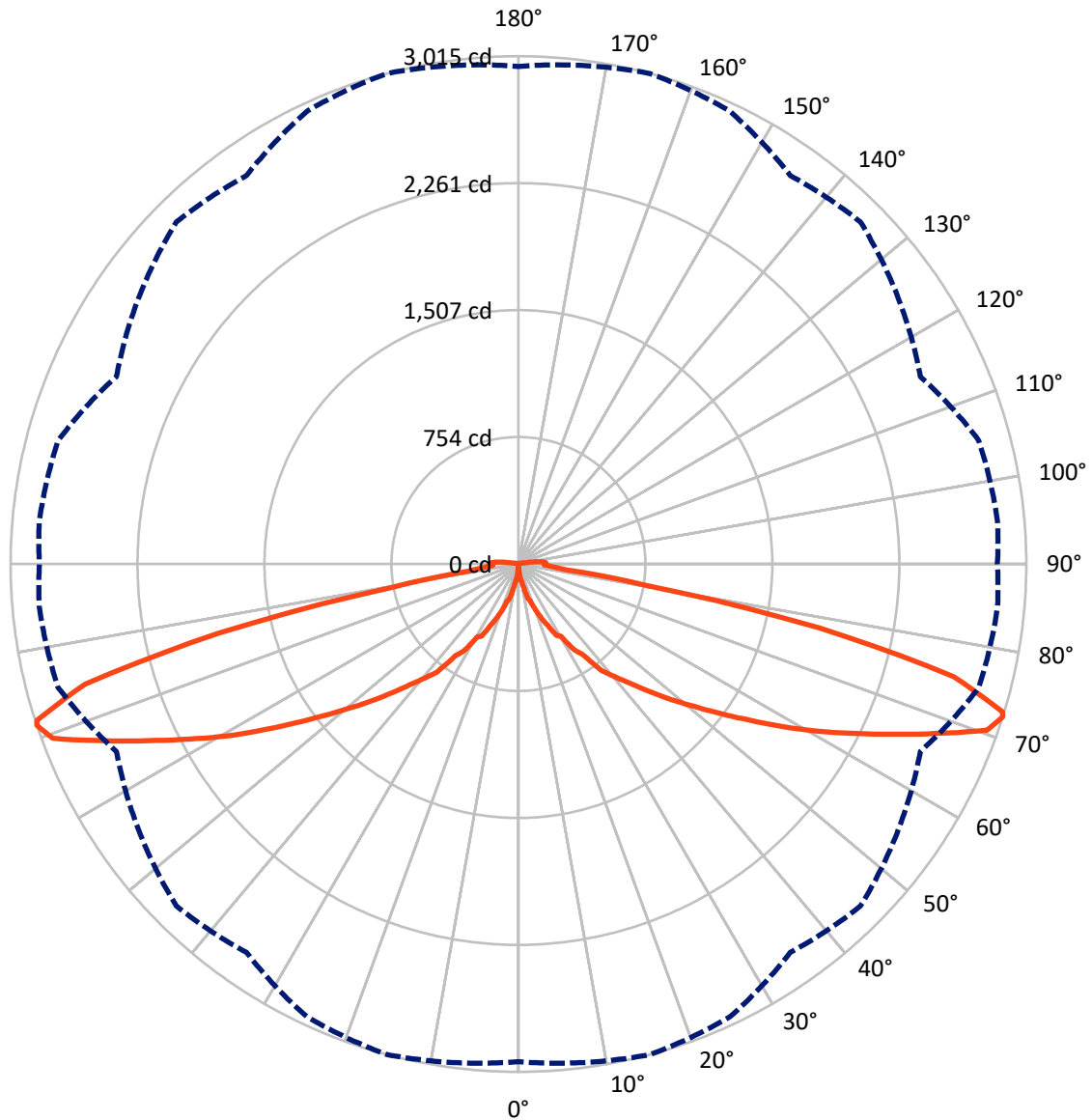


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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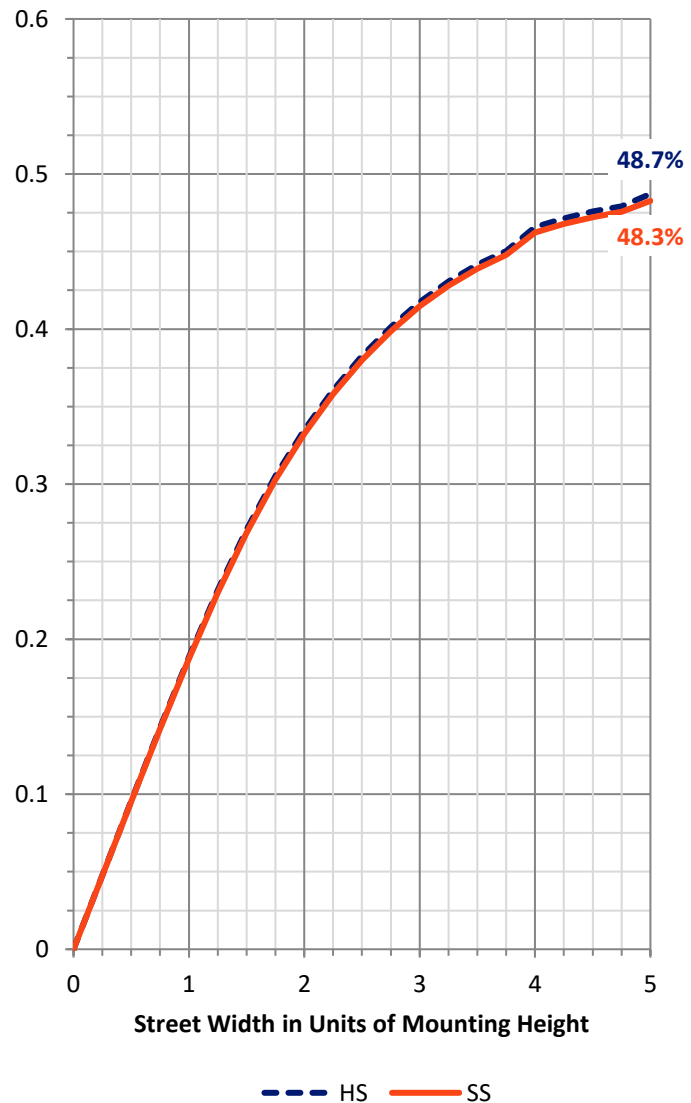
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4070.5	93.9	4164.4
	% Fixture	48.9	1.1	50.0
<b>Street Side</b>	Lumens	4070.5	93.9	4164.4
	% Fixture	48.9	1.1	50.0
<b>Total</b>	Lumens	8141.0	187.8	8328.8
	% Fixture	97.7	2.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	50.1	0.6
20°-30°	188.5	2.3
30°-40°	426.2	5.1
40°-50°	774.3	9.3
50°-60°	1388.4	16.7
60°-70°	2346.7	28.2
70°-80°	2521.1	30.3
80°-90°	442.0	5.3
90°-100°	153.7	1.8
100°-110°	20.4	0.2
110°-120°	5.8	0.1
120°-130°	3.6	0.0
130°-140°	2.2	0.0
140°-150°	1.7	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8141.0	97.7
0°-180°	8328.8	100.0



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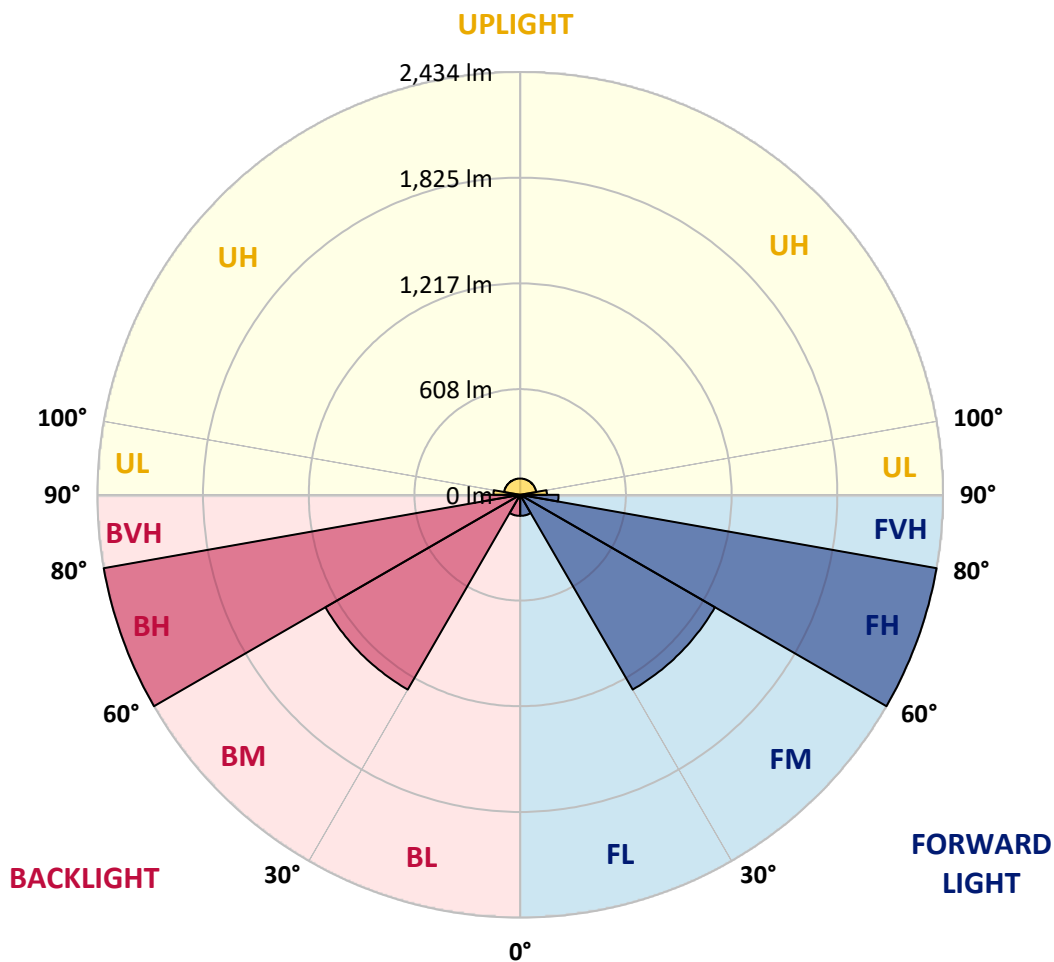
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.2	1.5			
FM (30°-60°)	1294.5	15.5			
FH (60°-80°)	2433.9	29.2			G2/5000
FVH (80°-90°)	221.0	2.7			G2/225
BL (0°-30°)	121.2	1.5	B1/500		
BM (30°-60°)	1294.5	15.5	B2/2500		
BH (60°-80°)	2433.9	29.2	B3/2500		G2/5000
BVH (80°-90°)	221.0	2.7			G2/225
UL (90°-100°)	153.7	1.8		U3/500	
UH (100°-180°)	93.9	1.1		U3/500	

**BUG Rating: B3-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	7.5	7.5	7.5	6.5	6.5	6.5	6.5	5.6	6.5	6.5	6.5
5°	42.1	44.1	39.4	38.5	17.8	14.0	8.4	6.5	6.5	6.5	6.5
7.5°	94.6	94.6	91.9	82.4	60.9	50.6	28.1	10.3	7.5	6.5	6.5
10°	108.7	106.8	102.2	102.2	98.4	89.9	53.4	25.3	11.3	10.3	10.3
12.5°	164.9	164.9	150.9	138.7	109.7	99.3	84.4	59.9	61.9	99.3	113.3
15°	220.2	220.2	211.8	196.8	156.5	116.2	151.8	178.1	150.9	162.1	163.1
17.5°	244.6	243.7	232.4	219.3	202.4	223.0	210.8	204.3	178.1	179.0	182.7
20°	339.2	335.5	293.3	268.9	236.2	285.8	251.1	235.2	300.8	323.4	330.8
22.5°	362.6	359.9	348.6	326.1	341.2	306.5	309.2	340.1	345.8	357.0	359.9
25°	429.2	428.3	402.0	361.7	392.7	350.5	398.2	363.7	386.1	449.8	474.2
27.5°	490.1	488.3	478.8	432.9	414.2	454.5	424.5	472.3	522.0	536.0	547.3
30°	549.1	546.4	498.6	505.1	462.0	481.7	517.3	525.7	544.5	581.0	582.9
32.5°	643.8	637.3	605.4	562.3	550.1	515.5	555.8	557.6	687.8	755.3	771.3
35°	738.5	731.9	660.7	641.0	598.8	611.9	595.1	680.4	733.8	797.5	808.7
37.5°	862.1	855.6	802.2	709.4	668.2	649.5	692.5	727.2	773.1	858.5	857.4
40°	929.7	926.8	878.1	805.0	735.7	714.1	736.6	767.5	838.7	915.5	924.0
42.5°	1010.3	1003.7	965.3	879.9	821.8	789.1	784.4	845.3	921.2	1002.7	1004.6
45°	1107.7	1098.3	1071.1	958.7	901.5	875.3	874.3	938.0	1026.1	1107.7	1117.1
47.5°	1217.3	1208.9	1191.1	1059.9	1004.6	970.9	992.5	1032.8	1122.7	1220.2	1230.5
50°	1335.5	1330.8	1315.7	1190.2	1144.3	1089.9	1114.3	1139.6	1247.3	1341.1	1343.9
52.5°	1461.9	1464.8	1458.2	1336.4	1285.7	1246.4	1273.6	1268.9	1373.8	1482.6	1479.7
55°	1620.4	1620.4	1623.1	1523.8	1474.1	1405.7	1452.6	1441.3	1536.9	1633.4	1630.6
57.5°	1798.3	1799.3	1807.8	1729.0	1686.8	1630.6	1661.6	1640.0	1700.9	1785.3	1776.9
60°	1977.4	1984.8	2011.1	1977.4	1923.0	1875.2	1918.3	1810.5	1884.6	1962.3	1950.2
62.5°	2162.0	2173.3	2212.5	2206.0	2147.9	2127.3	2162.9	2022.4	2120.8	2138.6	2126.4
65°	2375.7	2378.5	2433.8	2436.6	2349.4	2389.7	2377.5	2221.0	2359.7	2343.8	2341.9
67.5°	2612.7	2632.5	2683.0	2659.6	2543.4	2577.1	2557.5	2408.4	2553.7	2549.0	2540.6
70°	2903.2	2911.7	2952.0	2865.8	2699.0	2744.9	2689.6	2564.0	2763.6	2797.4	2789.0
72°	2953.9	2974.5	3014.7	2967.0	2814.2	2871.4	2752.4	2632.5	2829.3	2855.5	2843.3
72.5°	2940.8	2957.7	3004.5	2964.2	2828.3	2890.1	2759.9	2630.5	2812.4	2839.5	2824.6
75°	2563.1	2561.2	2669.0	2744.0	2792.7	2975.5	2723.3	2484.3	2508.7	2504.1	2480.7
77.5°	1631.6	1682.1	1826.5	2072.9	2435.6	2768.3	2413.1	1990.5	1783.4	1662.5	1610.9
80°	568.9	608.2	763.7	1093.6	1699.0	2112.3	1690.6	1098.3	731.0	567.9	560.4
82.5°	225.9	258.6	284.9	377.7	795.7	1236.1	790.0	408.6	328.0	296.1	286.7
85°	179.0	183.7	202.4	215.5	288.7	399.3	350.5	247.5	230.6	207.1	202.4
87.5°	157.4	161.2	151.8	155.6	201.5	224.0	220.2	159.3	142.4	156.5	150.9
90°	164.9	166.8	152.7	154.7	204.3	229.6	212.8	150.0	148.0	164.0	158.4
92.5°	176.2	179.0	164.0	164.9	210.8	238.0	213.7	149.0	161.2	176.2	170.5
95°	144.3	148.0	137.8	141.5	183.7	212.8	190.3	133.1	143.4	171.4	165.9
97.5°	85.3	89.0	88.1	112.4	120.9	133.1	123.7	91.9	88.1	96.6	90.9
100°	15.0	18.7	39.4	74.1	68.4	58.1	63.7	57.2	37.4	19.6	14.0
102.5°	14.0	15.0	29.1	40.3	29.1	20.7	28.1	33.8	21.6	13.1	13.1
105°	14.0	15.0	16.0	16.9	9.4	8.4	12.2	19.6	13.1	13.1	13.1
107.5°	13.1	13.1	8.4	7.5	7.5	8.4	7.5	8.4	9.4	12.2	13.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	11.3	11.3	7.5	6.5	6.5	7.5	6.5	7.5	7.5	9.4	9.4
112.5°	8.4	8.4	5.6	5.6	5.6	6.5	5.6	5.6	6.5	7.5	7.5
115°	8.4	8.4	5.6	4.7	4.7	5.6	4.7	4.7	5.6	7.5	7.5
117.5°	7.5	7.5	4.7	3.8	3.8	3.8	3.8	3.8	5.6	7.5	7.5
120°	7.5	7.5	4.7	3.8	3.8	2.8	3.8	3.8	4.7	7.5	7.5
122.5°	7.5	7.5	4.7	2.8	2.8	2.8	2.8	3.8	4.7	6.5	7.5
125°	7.5	6.5	4.7	2.8	2.8	2.8	2.8	2.8	4.7	6.5	6.5
127.5°	6.5	6.5	4.7	2.8	2.8	1.8	1.8	2.8	3.8	5.6	6.5
130°	6.5	6.5	4.7	2.8	2.8	1.8	1.8	1.8	3.8	5.6	5.6
132.5°	5.6	5.6	3.8	1.8	1.8	1.8	1.8	1.8	2.8	4.7	4.7
135°	4.7	4.7	3.8	1.8	1.8	1.8	1.8	1.8	1.8	3.8	3.8
137.5°	4.7	4.7	3.8	2.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8
140°	4.7	4.7	3.8	2.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
142.5°	4.7	4.7	3.8	2.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8
145°	4.7	4.7	3.8	2.8	1.8	1.8	1.8	2.8	2.8	3.8	3.8
147.5°	4.7	4.7	3.8	2.8	1.8	0.9	1.8	2.8	3.8	3.8	3.8
150°	4.7	4.7	3.8	1.8	0.9	0.0	0.9	1.8	2.8	3.8	3.8
152.5°	3.8	3.8	2.8	0.9	0.9	0.0	0.0	0.9	2.8	2.8	2.8
155°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
157.5°	0.9	0.9	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)