

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: P417204

Luminaire Tested: **LXF.LXT-PA1-90-750-U-5WQ-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-90-750-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 5000K, 1180mA 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: 9892 lumens  
Efficiency: N/A  
Efficacy: 105.2 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: B4 - U3 - G4

Input Watts (W): 94  
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

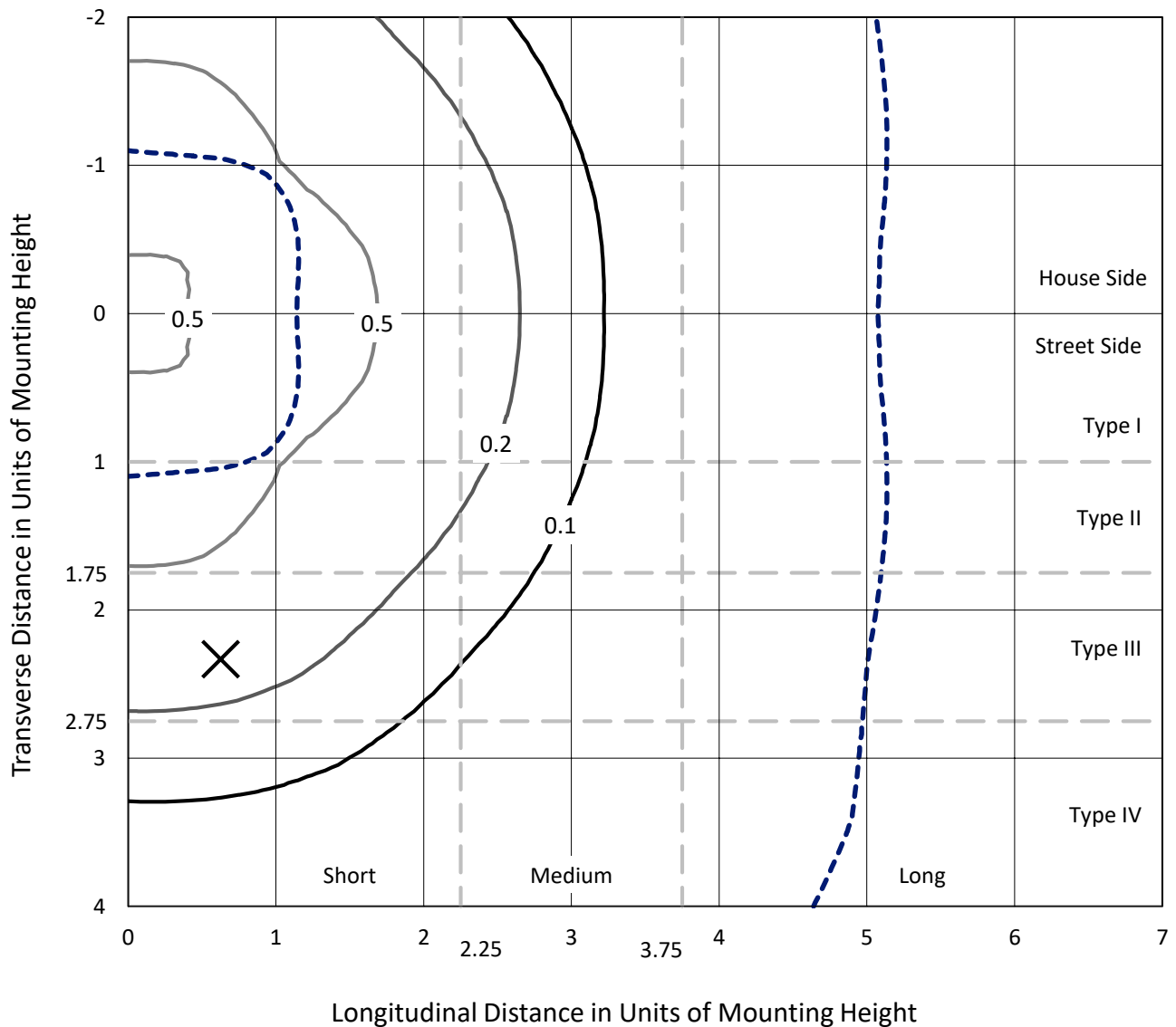


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

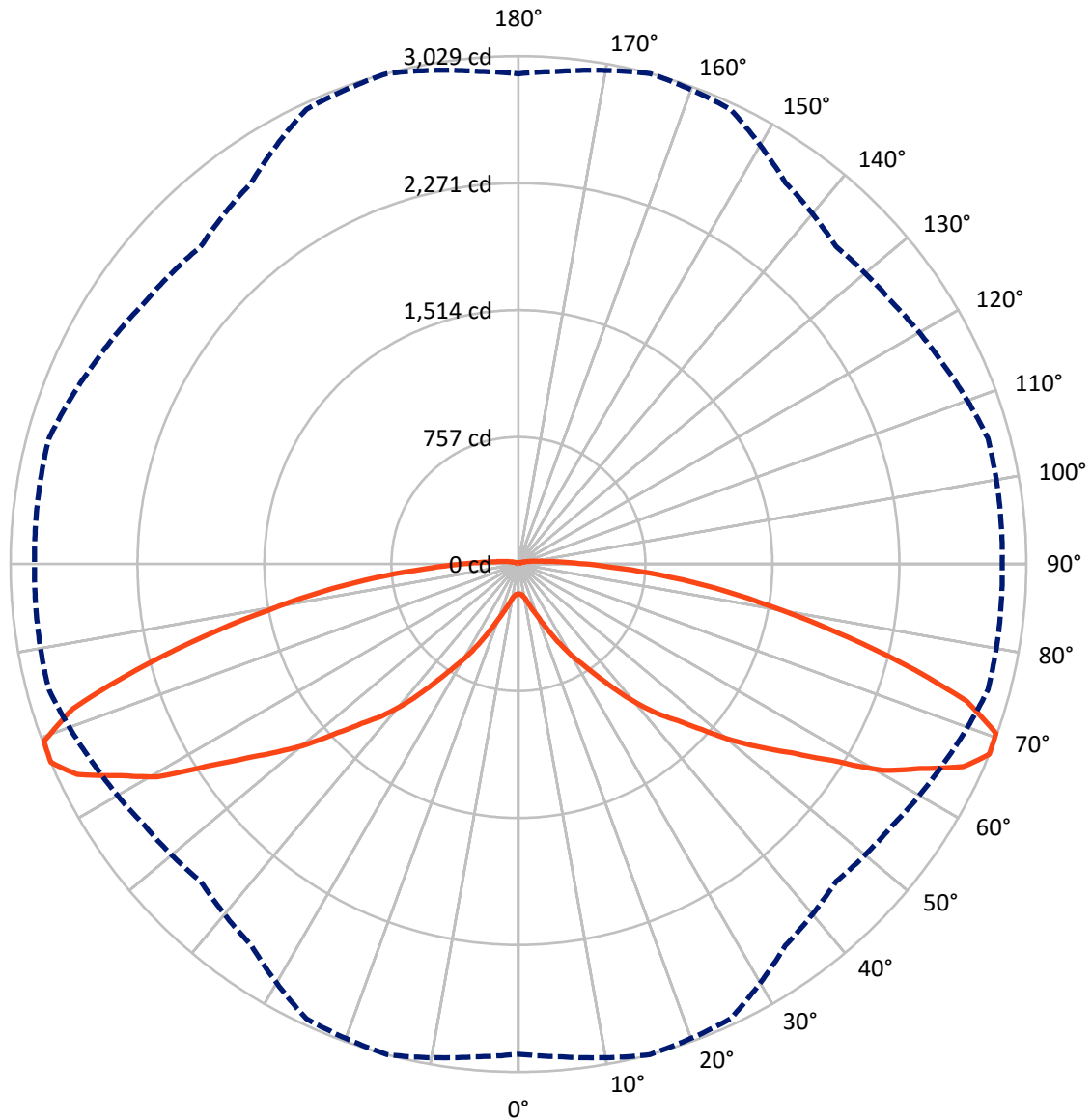


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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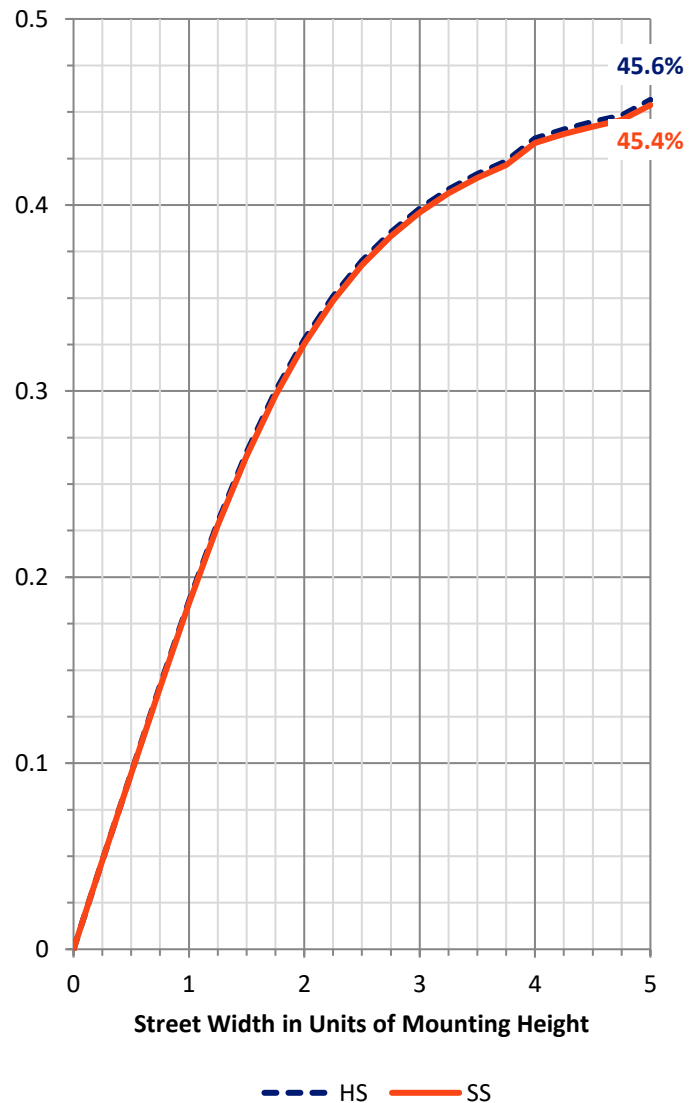
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4750.8	195.2	4946.0
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	4750.8	195.2	4946.0
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	9501.6	390.4	9892.0
	% Fixture	96.1	3.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.0	0.2
10°-20°	73.9	0.7
20°-30°	213.0	2.2
30°-40°	501.5	5.1
40°-50°	945.4	9.6
50°-60°	1686.1	17.0
60°-70°	2665.6	26.9
70°-80°	2348.5	23.7
80°-90°	1049.7	10.6
90°-100°	260.7	2.6
100°-110°	71.8	0.7
110°-120°	28.8	0.3
120°-130°	15.3	0.2
130°-140°	8.9	0.1
140°-150°	3.8	0.0
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9501.6	96.1
0°-180°	9892.0	100.0



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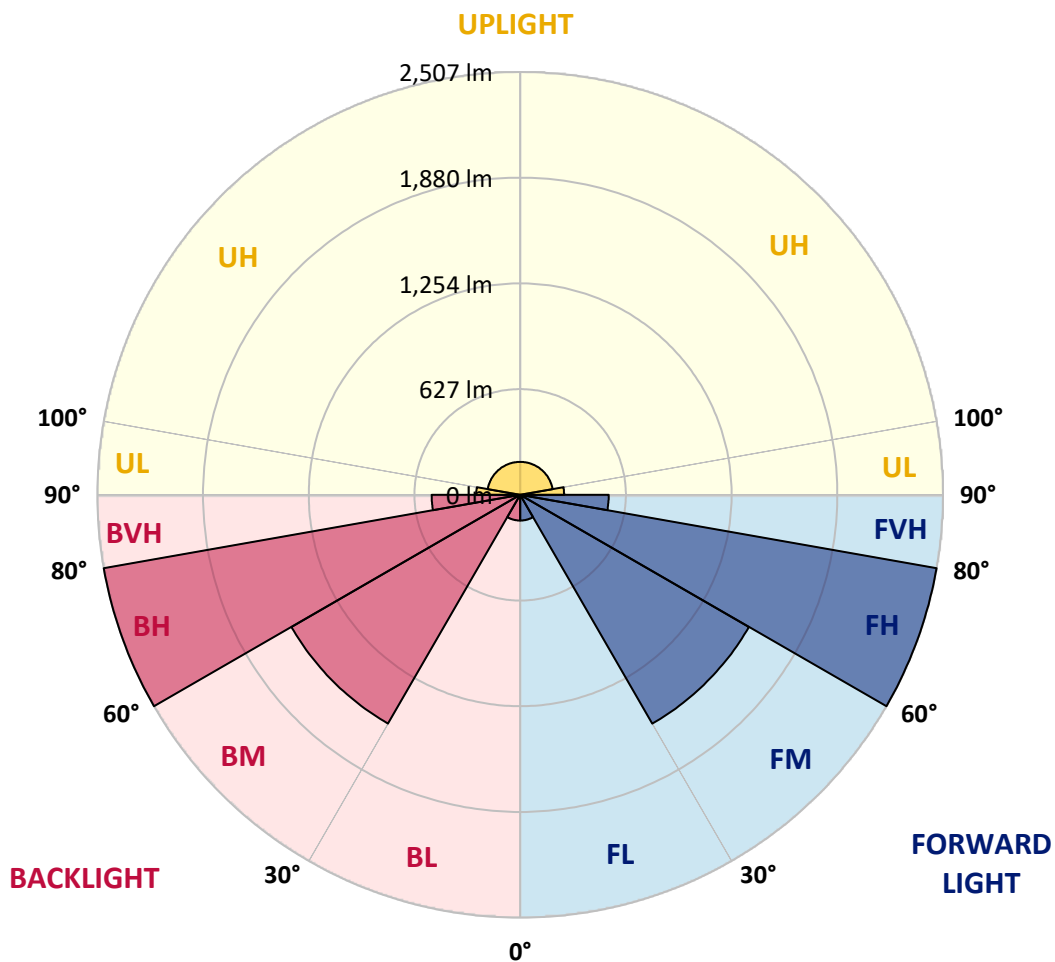
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.4	1.5			
FM (30°-60°)	1566.5	15.8			
FH (60°-80°)	2507.0	25.3			G2/5000
FVH (80°-90°)	524.8	5.3			G4/750
BL (0°-30°)	152.4	1.5	B1/500		
BM (30°-60°)	1566.5	15.8	B2/2500		
BH (60°-80°)	2507.0	25.3	B4/5000		G2/5000
BVH (80°-90°)	524.8	5.3			G4/750
UL (90°-100°)	260.7	2.6		U3/500	
UH (100°-180°)	195.2	2.0		U3/500	

**BUG Rating: B4-U3-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9
2.5°	177.9	177.9	179.0	179.0	180.1	181.1	180.1	179.0	177.9	176.8	176.8
5°	183.3	183.3	183.3	183.3	184.4	184.4	183.3	181.1	180.1	179.0	179.0
7.5°	191.9	191.9	191.9	191.9	191.9	190.8	188.7	186.5	185.4	184.4	184.4
10°	205.9	205.9	203.8	203.8	202.7	201.6	199.5	197.3	195.2	196.2	196.2
12.5°	229.7	230.7	227.5	222.1	217.8	215.6	214.6	214.6	217.8	217.8	218.9
15°	264.2	264.2	258.8	251.2	242.6	236.1	238.3	243.7	249.1	252.3	252.3
17.5°	301.9	301.9	296.5	286.8	274.9	271.7	270.6	276.0	287.9	292.2	293.3
20°	349.3	349.3	339.6	325.6	314.8	310.5	310.5	319.1	332.1	341.8	340.7
22.5°	414.0	412.9	398.9	375.2	361.2	354.7	353.6	365.5	388.1	403.2	407.6
25°	491.7	490.6	472.2	441.0	419.4	402.2	406.5	427.0	461.5	485.2	485.2
27.5°	580.1	575.8	552.0	517.5	485.2	462.5	469.0	498.1	541.3	573.6	574.7
30°	666.3	666.3	640.4	599.5	556.3	528.3	535.9	576.8	628.6	679.3	680.3
32.5°	758.0	756.9	724.5	683.6	630.7	599.5	611.3	662.0	735.3	793.5	804.3
35°	875.5	876.6	831.3	775.2	708.4	673.9	690.0	755.8	843.1	913.2	919.7
37.5°	1001.6	1008.1	958.5	886.3	796.8	754.7	778.5	855.0	956.4	1029.7	1029.7
40°	1137.5	1140.7	1095.4	1003.8	896.0	841.0	872.3	954.2	1031.8	1094.4	1097.6
42.5°	1252.9	1256.1	1220.5	1131.0	1010.3	944.5	962.8	1025.4	1098.7	1168.8	1175.2
45°	1343.4	1354.2	1332.6	1256.1	1133.2	1053.4	1051.2	1114.8	1203.3	1276.6	1285.2
47.5°	1507.3	1512.7	1475.0	1384.4	1259.3	1172.0	1163.4	1227.0	1342.3	1421.1	1426.4
50°	1651.8	1668.0	1653.9	1556.9	1408.1	1302.5	1303.5	1387.6	1512.7	1592.5	1600.0
52.5°	1814.6	1822.1	1817.8	1734.8	1590.3	1465.3	1479.3	1574.2	1708.9	1758.5	1767.2
55°	1963.4	1975.2	1990.3	1928.9	1785.5	1675.5	1688.4	1789.8	1880.4	1927.8	1932.1
57.5°	2199.5	2211.4	2210.3	2119.7	1996.8	1890.1	1911.6	1991.4	2110.0	2190.9	2204.9
60°	2456.1	2473.4	2500.3	2382.8	2198.4	2124.0	2151.0	2266.4	2401.1	2413.0	2428.1
62.5°	2627.5	2636.2	2686.9	2648.0	2433.5	2344.0	2415.1	2513.3	2583.3	2594.1	2589.8
65°	2851.8	2879.8	2915.4	2825.9	2653.4	2530.5	2612.5	2685.8	2811.9	2822.7	2820.5
67.5°	2923.0	2949.9	3028.6	2992.0	2776.3	2678.2	2720.3	2801.1	2898.2	2889.6	2885.2
70°	2928.4	2954.2	3021.1	3001.7	2804.4	2668.5	2711.6	2742.9	2832.4	2833.5	2821.6
72.5°	2635.1	2680.4	2794.7	2829.2	2656.7	2517.6	2520.8	2519.7	2526.2	2455.0	2427.0
75°	2220.0	2252.3	2364.5	2447.5	2359.1	2239.4	2237.2	2146.7	2127.3	2073.4	2054.0
77.5°	1777.9	1817.8	1925.6	2016.2	1984.9	1920.3	1886.8	1784.4	1756.4	1694.9	1702.5
80°	1382.2	1413.5	1520.2	1637.8	1646.4	1601.1	1564.5	1480.4	1425.4	1373.6	1351.0
82.5°	1064.2	1091.1	1182.8	1310.0	1362.8	1357.4	1305.7	1210.8	1161.2	1111.6	1082.5
85°	735.3	759.0	849.6	1003.8	1098.7	1132.1	1073.9	954.2	865.8	795.7	779.5
87.5°	474.4	485.2	557.4	691.1	833.4	912.1	850.7	700.8	589.8	533.7	515.4
90°	296.5	312.7	364.4	447.4	586.5	686.8	624.3	472.2	392.5	335.3	323.5
92.5°	205.9	203.8	239.4	297.6	400.0	482.0	428.0	312.7	248.0	210.2	202.7
95°	135.9	141.2	160.7	197.3	270.6	321.3	282.5	208.1	162.8	135.9	132.6
97.5°	101.3	102.4	117.5	140.2	184.4	211.3	187.6	144.5	115.4	98.1	97.0
100°	79.8	80.9	91.6	104.6	129.4	146.6	131.5	108.9	89.5	76.6	76.6
102.5°	62.5	63.6	71.2	81.9	98.1	108.9	100.3	84.1	70.1	60.4	59.3
105°	49.6	49.6	56.1	64.7	76.6	84.1	78.7	65.8	53.9	47.4	47.4
107.5°	38.8	39.9	44.2	50.7	61.5	69.0	62.5	50.7	42.0	36.7	36.7
110°	31.3	31.3	34.5	41.0	49.6	56.1	50.7	41.0	33.4	30.2	30.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	25.9	25.9	28.0	33.4	41.0	46.4	41.0	33.4	27.0	24.8	24.8
115°	21.6	21.6	23.7	27.0	34.5	37.7	34.5	27.0	22.6	20.5	20.5
117.5°	19.4	19.4	20.5	23.7	29.1	31.3	29.1	22.6	19.4	18.3	18.3
120°	17.3	17.3	18.3	20.5	24.8	27.0	24.8	20.5	17.3	16.2	16.2
122.5°	16.2	16.2	16.2	18.3	22.6	23.7	21.6	18.3	15.1	15.1	15.1
125°	15.1	15.1	15.1	16.2	19.4	20.5	19.4	16.2	14.0	14.0	14.0
127.5°	14.0	14.0	14.0	15.1	17.3	18.3	17.3	15.1	12.9	12.9	12.9
130°	14.0	14.0	12.9	14.0	15.1	16.2	15.1	14.0	12.9	11.9	12.9
132.5°	12.9	12.9	12.9	12.9	14.0	14.0	14.0	12.9	11.9	11.9	11.9
135°	11.9	11.9	10.8	10.8	11.9	12.9	11.9	10.8	10.8	10.8	10.8
137.5°	10.8	9.7	9.7	9.7	10.8	10.8	10.8	9.7	9.7	9.7	9.7
140°	8.6	8.6	8.6	8.6	8.6	9.7	8.6	7.5	7.5	8.6	8.6
142.5°	7.5	7.5	7.5	6.5	7.5	7.5	7.5	6.5	6.5	6.5	6.5
145°	6.5	6.5	6.5	5.4	6.5	6.5	6.5	5.4	5.4	5.4	5.4
147.5°	4.3	5.4	4.3	4.3	5.4	5.4	4.3	4.3	4.3	4.3	4.3
150°	3.2	3.2	3.2	3.2	4.3	4.3	3.2	3.2	3.2	3.2	3.2
152.5°	2.2	2.2	3.2	3.2	3.2	3.2	3.2	3.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	2.2	3.2	3.2	2.2	2.2	2.2	1.1	1.1
157.5°	1.1	1.1	1.1	1.1	2.2	3.2	2.2	1.1	1.1	1.1	1.1
160°	0.0	0.0	0.0	1.1	2.2	3.2	2.2	1.1	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)