

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: P266172

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266172  
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-AF24-80-D-U-5WQ-TL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 7096 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

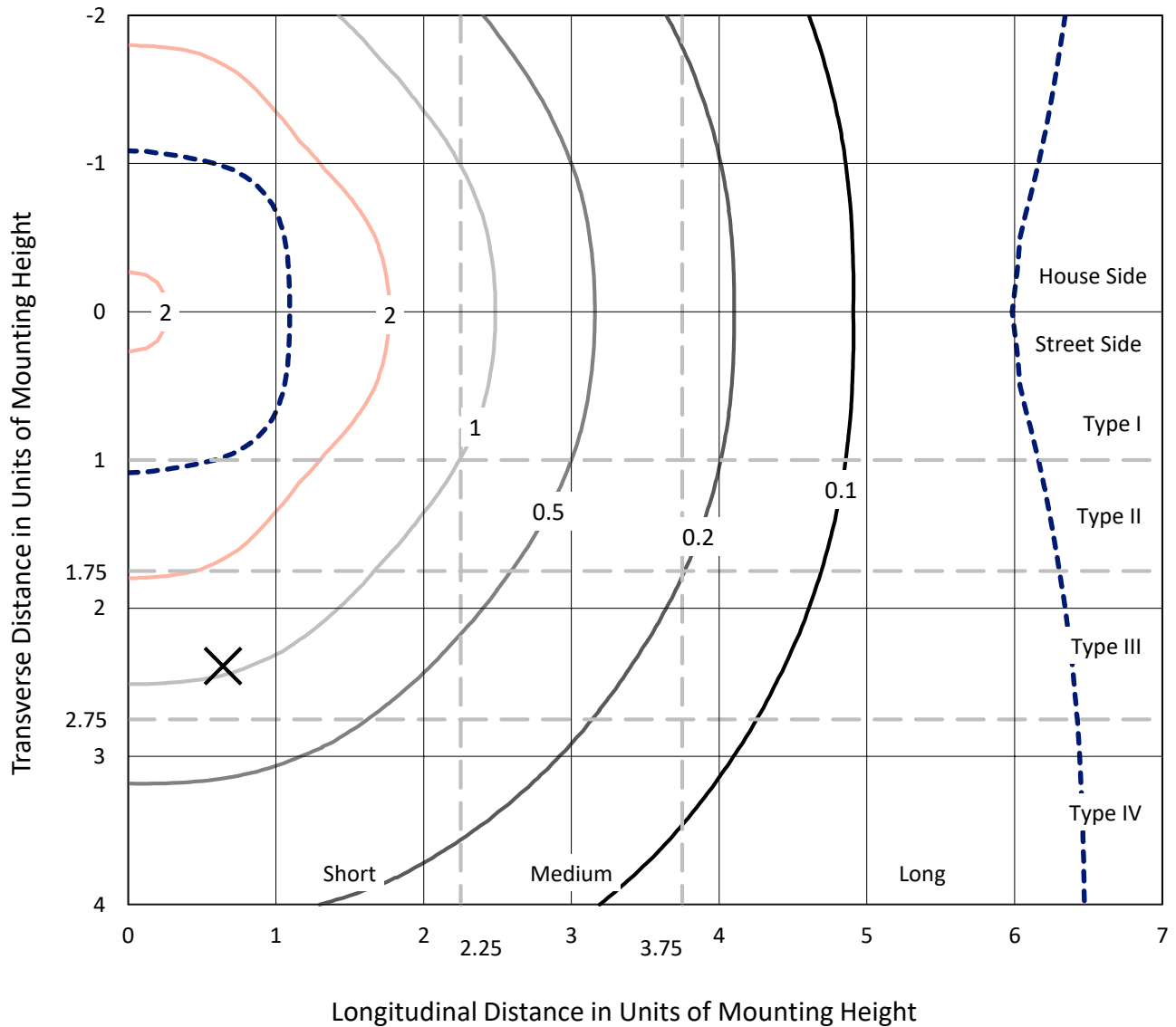


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

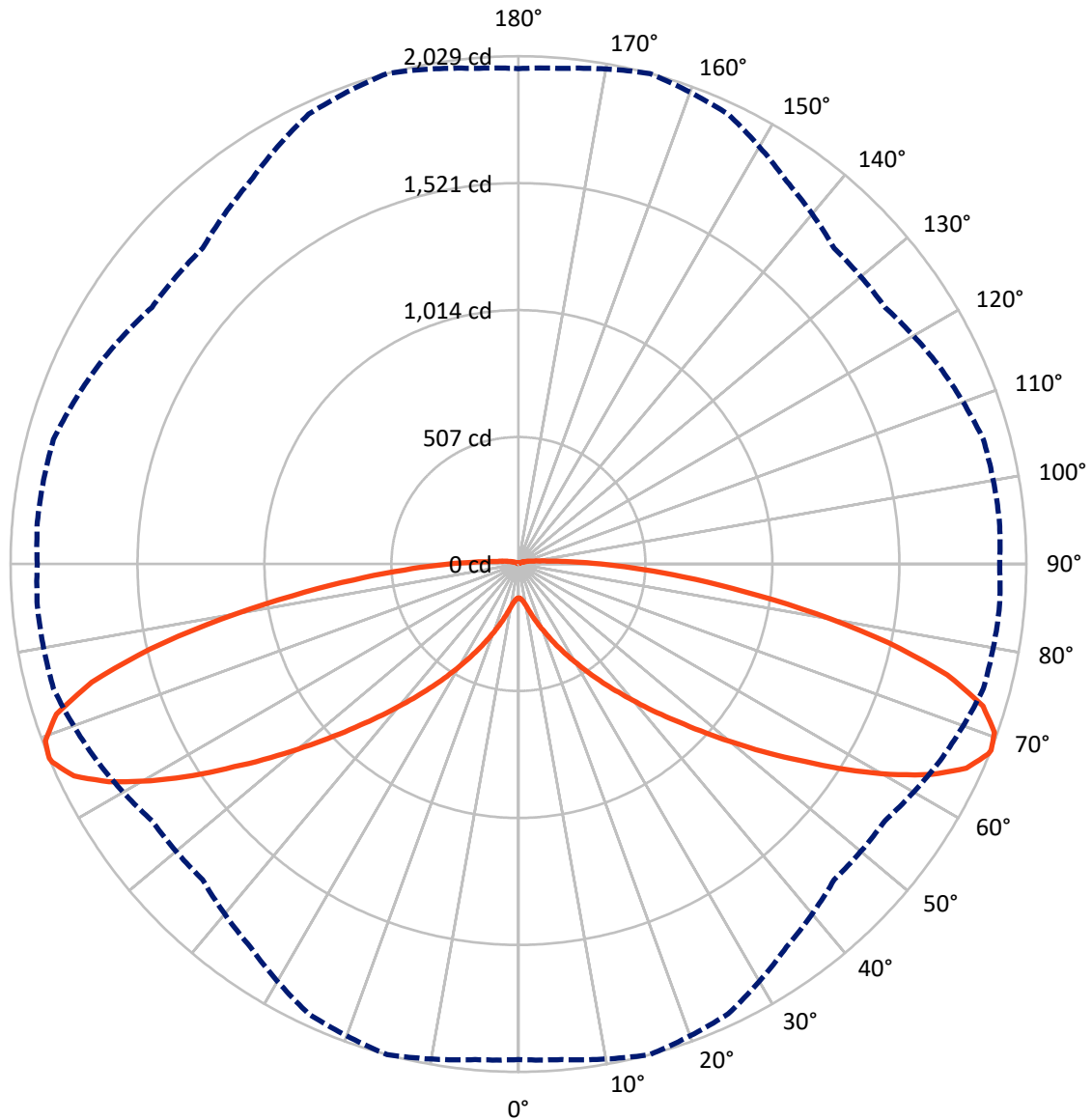


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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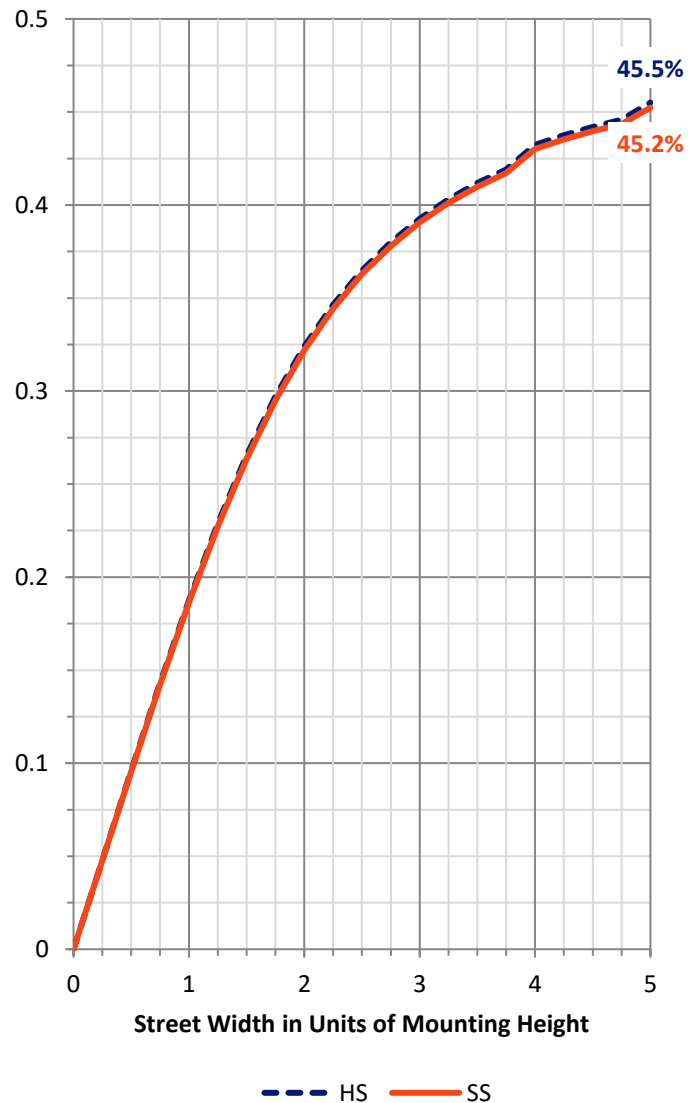
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3406.1	142.0	3548.0
	% Fixture	48.0	2.0	50.0
<b>Street Side</b>	Lumens	3406.1	142.0	3548.0
	% Fixture	48.0	2.0	50.0
<b>Total</b>	Lumens	6812.1	283.9	7096.0
	% Fixture	96.0	4.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	0.2
10°-20°	64.9	0.9
20°-30°	171.0	2.4
30°-40°	358.9	5.1
40°-50°	673.8	9.5
50°-60°	1190.6	16.8
60°-70°	1795.7	25.3
70°-80°	1740.5	24.5
80°-90°	802.2	11.3
90°-100°	190.8	2.7
100°-110°	53.3	0.8
110°-120°	22.4	0.3
120°-130°	10.0	0.1
130°-140°	4.8	0.1
140°-150°	2.0	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6812.1	96.0
0°-180°	7096.0	100.0

**Coefficient of Utilization**



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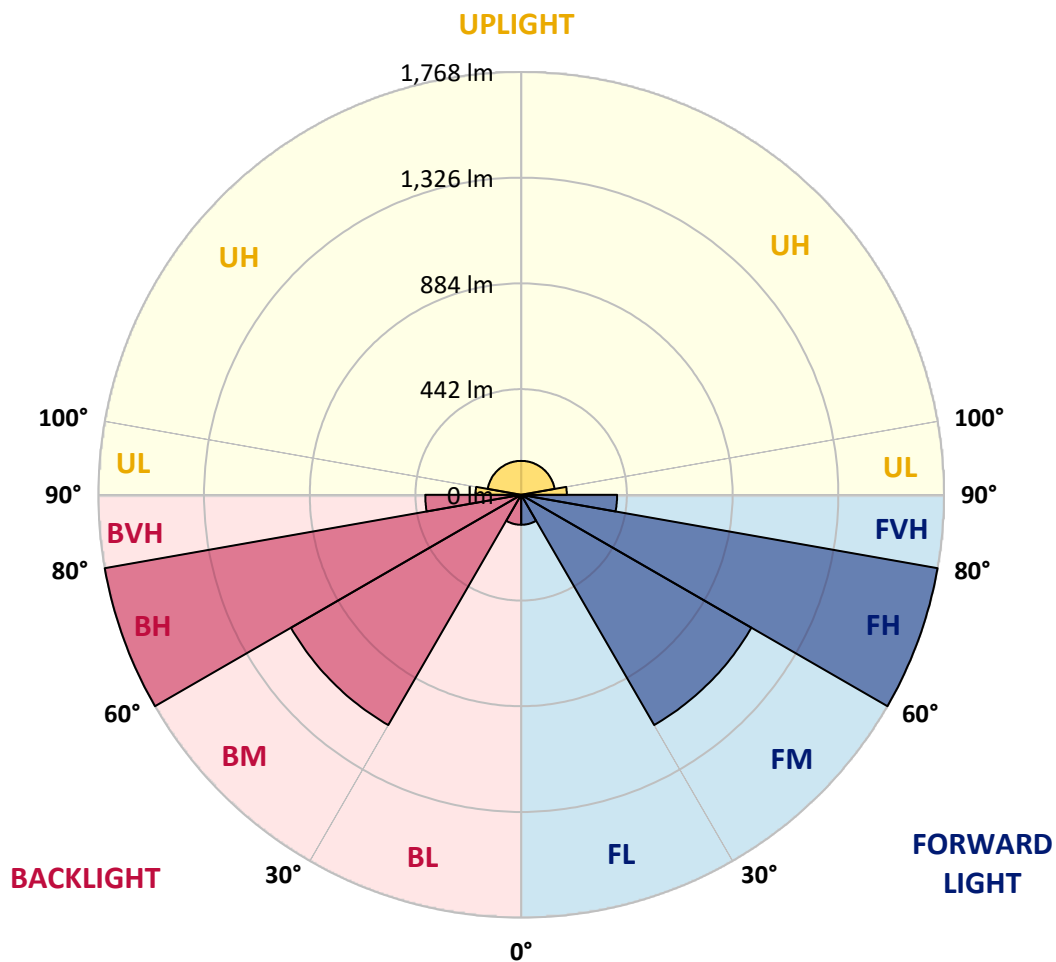
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.2	1.8			
FM (30°-60°)	1111.7	15.7			
FH (60°-80°)	1768.1	24.9			G1/1800
FVH (80°-90°)	401.1	5.7			G3/500
BL (0°-30°)	125.2	1.8	B1/500		
BM (30°-60°)	1111.7	15.7	B2/2500		
BH (60°-80°)	1768.1	24.9	B3/2500		G1/1800
BVH (80°-90°)	401.1	5.7			G3/500
UL (90°-100°)	190.8	2.7		U3/500	
UH (100°-180°)	142.0	2.0		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°	135.3	135.3	135.3	135.3	135.3	135.3	135.3	135.3	135.3	135.3	135.3
2.5°	137.7	137.7	137.7	137.7	137.7	138.5	137.7	137.7	137.7	137.7	137.7
5°	143.3	143.3	143.3	144.1	144.1	144.1	144.1	144.1	144.1	144.8	144.1
7.5°	153.6	153.6	153.6	153.6	153.6	153.6	154.4	155.1	155.1	155.9	155.9
10°	169.5	169.5	168.7	168.7	168.7	169.5	169.5	171.0	171.8	174.4	173.6
12.5°	194.2	194.2	192.5	191.0	190.3	189.5	191.0	194.2	196.5	200.5	199.8
15°	222.1	222.1	220.4	218.1	217.3	216.5	217.3	221.3	225.2	229.2	228.3
17.5°	253.1	252.2	250.6	247.6	247.6	246.8	246.8	250.6	255.5	261.0	261.0
20°	287.3	285.8	283.3	279.4	279.4	278.6	279.4	282.5	289.7	296.0	296.0
22.5°	326.3	324.6	321.6	317.6	315.1	313.6	314.3	319.2	327.9	336.7	337.5
25°	370.0	367.6	364.5	359.7	353.4	350.2	351.7	359.7	370.9	382.0	379.7
27.5°	416.3	415.5	410.6	403.5	393.9	389.1	393.2	402.7	416.3	428.1	428.9
30°	470.4	467.9	461.5	450.4	440.1	430.6	434.5	447.3	465.5	481.5	482.3
32.5°	526.9	526.0	519.0	503.1	485.4	476.7	480.8	499.0	520.5	536.4	539.6
35°	592.2	590.5	582.6	561.9	539.6	527.7	531.5	554.0	580.1	600.1	601.7
37.5°	663.7	659.7	650.3	625.5	596.8	582.6	586.6	611.9	643.8	663.7	668.5
40°	737.8	736.9	725.8	697.2	662.1	642.3	648.5	677.2	713.9	736.2	739.3
42.5°	823.7	822.0	811.0	777.6	734.5	711.5	718.6	752.9	792.7	814.9	819.0
45°	914.5	916.0	900.9	868.2	818.1	791.9	796.6	835.7	879.4	907.3	910.4
47.5°	1019.4	1017.2	1008.3	967.7	910.4	880.2	885.8	928.8	980.5	1006.7	1008.3
50°	1130.1	1127.7	1124.5	1082.4	1016.3	985.3	988.5	1035.3	1087.8	1114.9	1122.2
52.5°	1253.5	1254.3	1255.8	1209.7	1135.6	1093.4	1100.7	1154.0	1209.7	1234.4	1240.6
55°	1390.3	1391.1	1394.3	1347.4	1263.7	1216.8	1225.6	1284.4	1344.1	1368.8	1371.3
57.5°	1542.3	1538.3	1551.1	1495.4	1403.8	1349.8	1359.2	1420.6	1484.2	1508.2	1512.8
60°	1694.4	1688.8	1706.3	1650.5	1545.5	1486.7	1491.4	1563.1	1631.4	1646.7	1657.0
62.5°	1823.3	1828.8	1851.9	1795.4	1679.2	1607.5	1615.5	1687.9	1764.5	1779.5	1781.9
65°	1924.3	1932.3	1966.5	1907.6	1792.2	1706.3	1717.4	1792.2	1871.0	1878.1	1876.6
67.5°	1977.7	1984.8	2023.8	1975.3	1858.2	1774.0	1780.4	1852.8	1919.6	1926.8	1919.6
68°	1979.2	1987.2	2028.6	1982.4	1867.0	1783.5	1787.4	1858.2	1922.7	1929.1	1922.0
70°	1955.4	1974.5	2017.5	1983.2	1875.0	1797.0	1797.8	1855.1	1916.4	1911.7	1905.2
72.5°	1863.1	1879.8	1940.2	1926.0	1835.1	1768.4	1758.8	1798.5	1834.3	1820.9	1816.9
75°	1675.2	1691.1	1769.1	1785.0	1734.1	1685.6	1662.6	1675.2	1674.4	1649.7	1640.2
77.5°	1403.1	1425.3	1511.3	1570.1	1553.4	1533.5	1494.6	1475.5	1439.7	1389.5	1373.6
80°	1090.4	1112.6	1205.6	1287.7	1321.0	1323.5	1287.7	1224.0	1152.3	1084.0	1070.4
82.5°	808.6	831.7	909.7	1011.5	1055.2	1080.8	1041.0	959.0	878.6	802.9	789.5
85°	565.0	581.7	660.6	743.3	806.9	834.9	791.0	721.0	639.9	574.6	561.9
87.5°	385.3	394.7	456.8	539.6	599.3	626.3	588.8	520.5	445.6	386.0	372.4
90°	244.2	250.6	296.8	366.1	426.5	450.4	420.9	361.3	292.8	244.2	235.5
92.5°	149.6	152.8	186.9	242.7	293.7	320.8	294.5	241.1	185.4	150.5	145.6
95°	97.8	100.3	120.2	155.9	198.2	218.1	200.5	160.7	123.3	100.3	97.0
97.5°	72.5	74.0	86.0	105.0	130.6	145.6	133.7	109.9	88.4	74.0	71.7
100°	56.6	57.3	65.2	77.3	91.4	100.3	94.0	80.4	66.8	56.6	55.8
102.5°	45.4	45.4	52.6	61.3	70.1	74.7	70.8	63.7	52.6	44.6	43.7
105°	35.8	36.7	42.2	50.1	56.6	59.6	57.3	51.7	42.2	35.0	34.2
107.5°	28.7	28.7	34.2	41.4	47.8	50.1	47.8	42.9	33.4	27.8	27.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	22.3	23.0	27.0	34.2	39.7	42.2	39.7	35.0	27.0	22.3	21.5
112.5°	18.2	18.2	21.5	27.8	33.4	35.0	33.4	27.8	21.5	17.4	17.4
115°	15.1	15.1	17.4	23.0	27.8	29.5	27.8	23.0	17.4	14.4	14.4
117.5°	12.8	13.6	15.1	19.1	23.0	23.9	23.0	19.1	14.4	12.8	11.9
120°	11.1	11.9	12.8	15.9	19.1	19.9	18.2	15.1	11.9	11.1	10.3
122.5°	10.3	10.3	11.1	12.8	15.9	16.7	15.1	12.8	10.3	9.5	9.5
125°	9.5	9.5	9.5	11.1	12.8	13.6	12.8	10.3	8.8	8.8	8.8
127.5°	8.8	8.8	8.8	9.5	11.1	11.1	10.3	8.8	7.9	7.9	7.9
130°	7.9	7.9	7.9	7.9	8.8	9.5	8.8	7.9	7.1	7.1	7.1
132.5°	7.1	7.1	7.1	7.1	7.1	7.9	7.1	6.4	6.4	6.4	6.4
135°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.6	5.6	5.6	5.6
137.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.9	4.9	5.6	5.6
140°	4.9	4.9	4.9	4.9	4.0	4.0	4.0	4.0	4.9	4.9	4.9
142.5°	4.9	4.9	4.0	4.0	3.1	3.1	3.1	3.1	4.0	4.0	4.0
145°	4.0	4.0	3.1	3.1	3.1	2.3	2.3	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
152.5°	1.5	1.5	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	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)