

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: P254252

Luminaire Tested: **LXF.LXT-AF24-70-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254252
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-AF24-70-D-U-5WQ-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 7170.8 lumens
Efficiency: N/A
Efficacy: 96.9 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

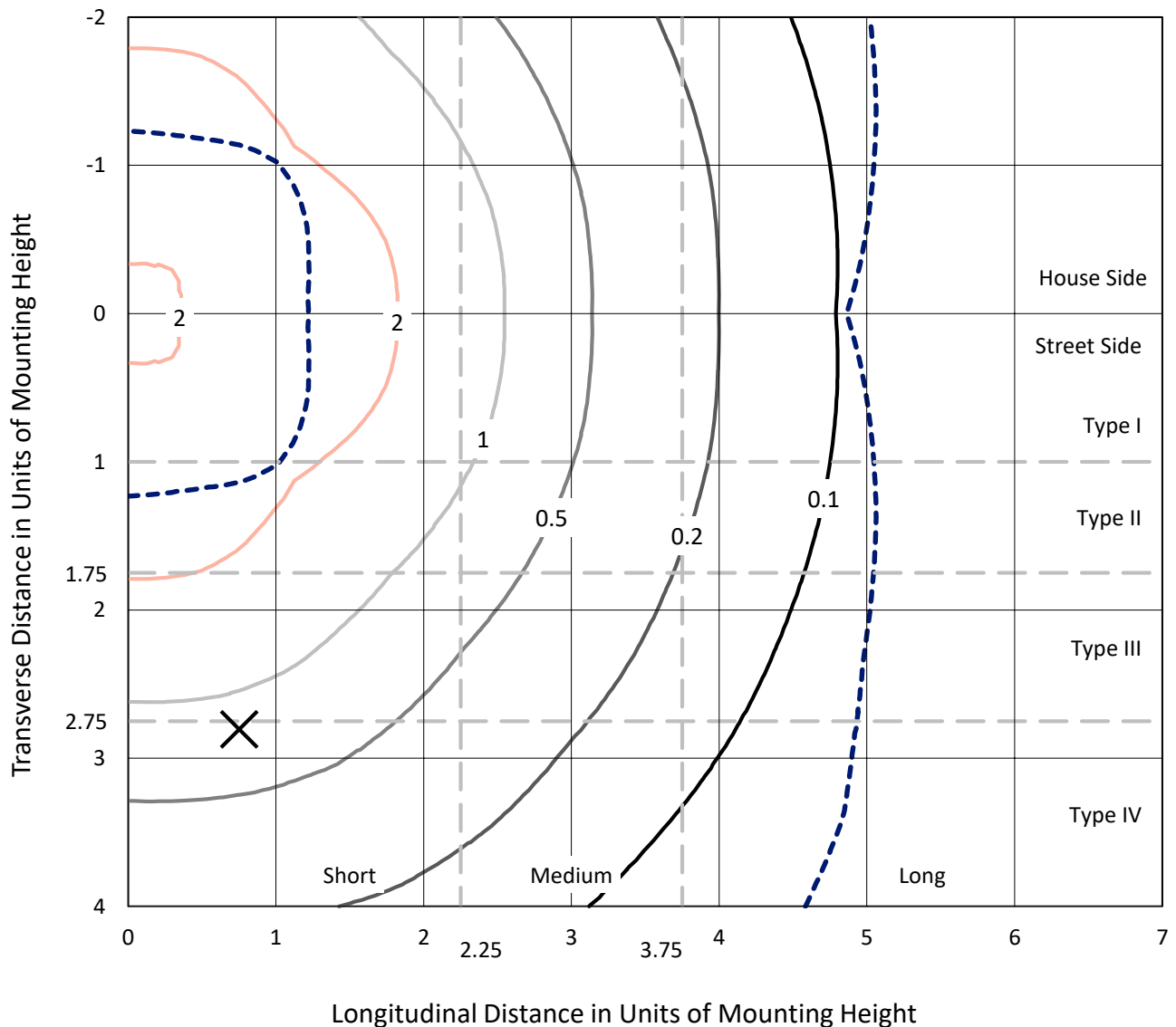
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

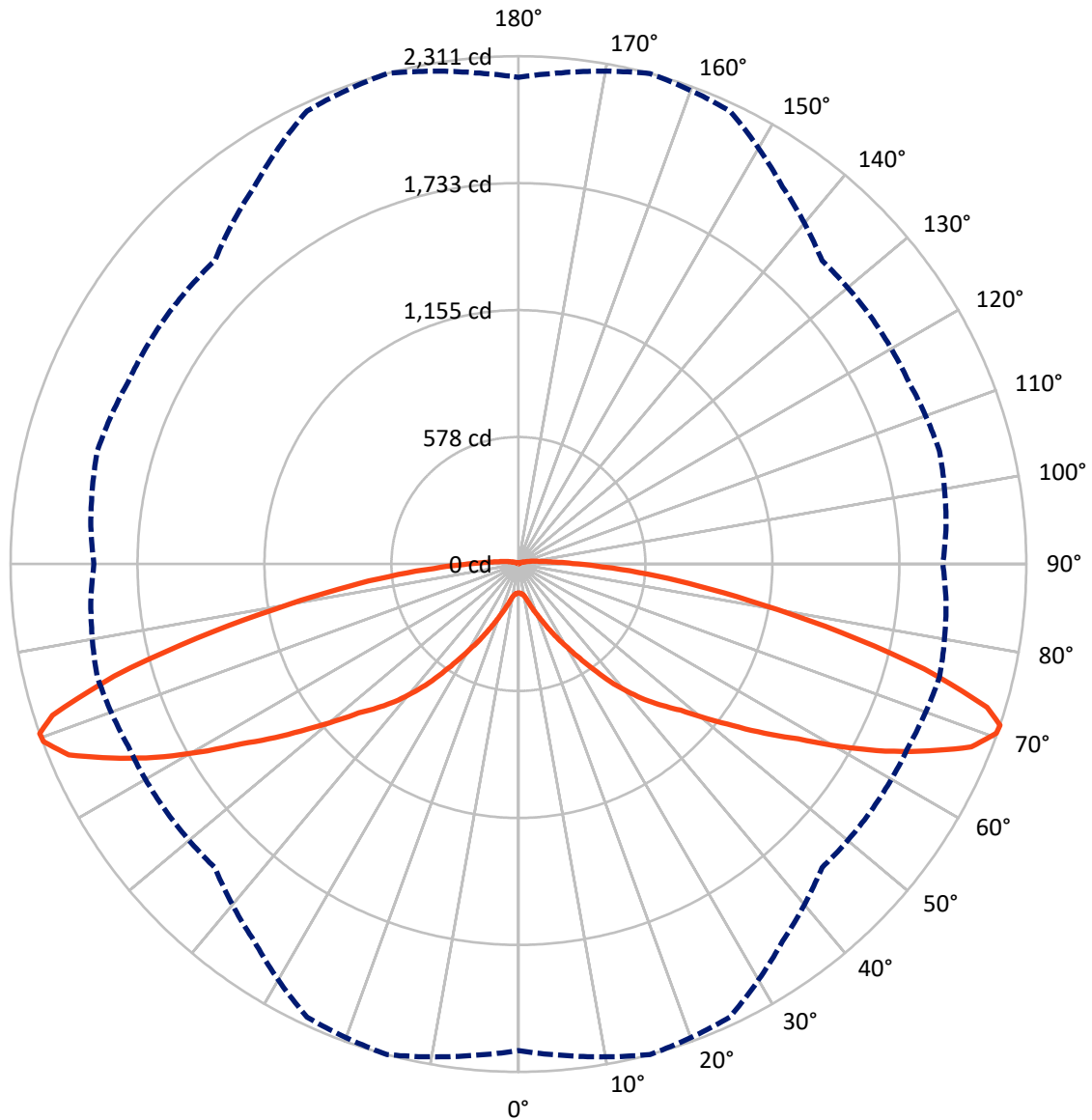


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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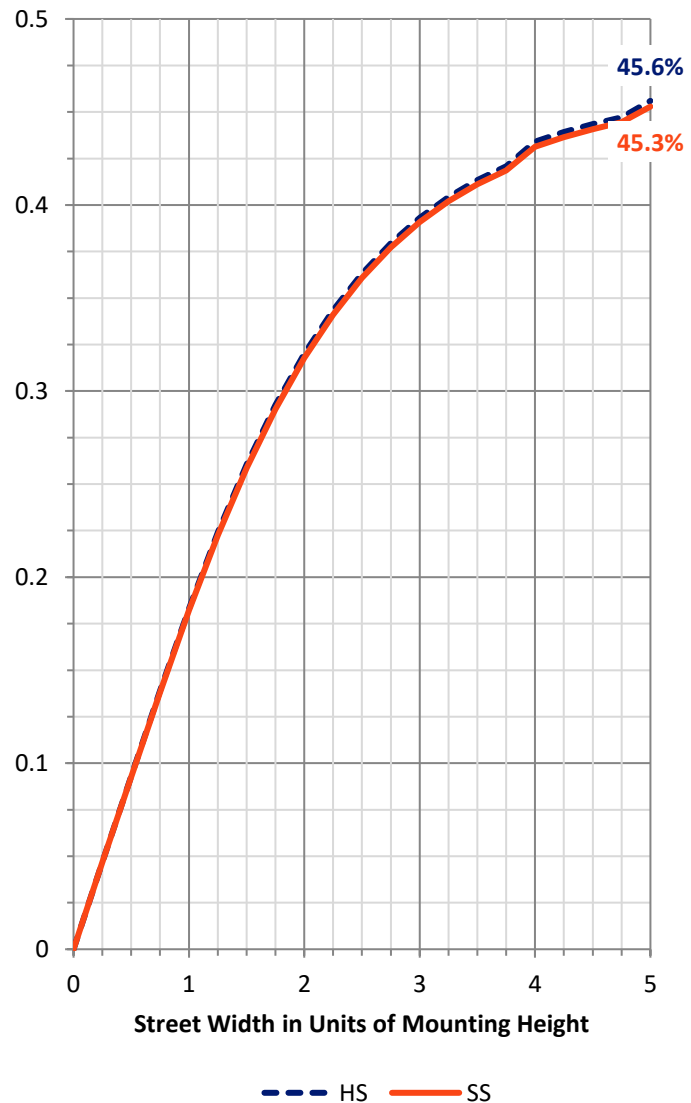
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.7	149.6	3585.4
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3435.7	149.6	3585.4
	% Fixture	47.9	2.1	50.0
Total	Lumens	6871.5	299.3	7170.8
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.2
10°-20°	53.2	0.7
20°-30°	150.4	2.1
30°-40°	350.6	4.9
40°-50°	654.5	9.1
50°-60°	1167.7	16.3
60°-70°	1914.4	26.7
70°-80°	1790.7	25.0
80°-90°	776.7	10.8
90°-100°	196.2	2.7
100°-110°	57.2	0.8
110°-120°	23.5	0.3
120°-130°	12.4	0.2
130°-140°	6.9	0.1
140°-150°	2.6	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6871.5	95.8
0°-180°	7170.8	100.0



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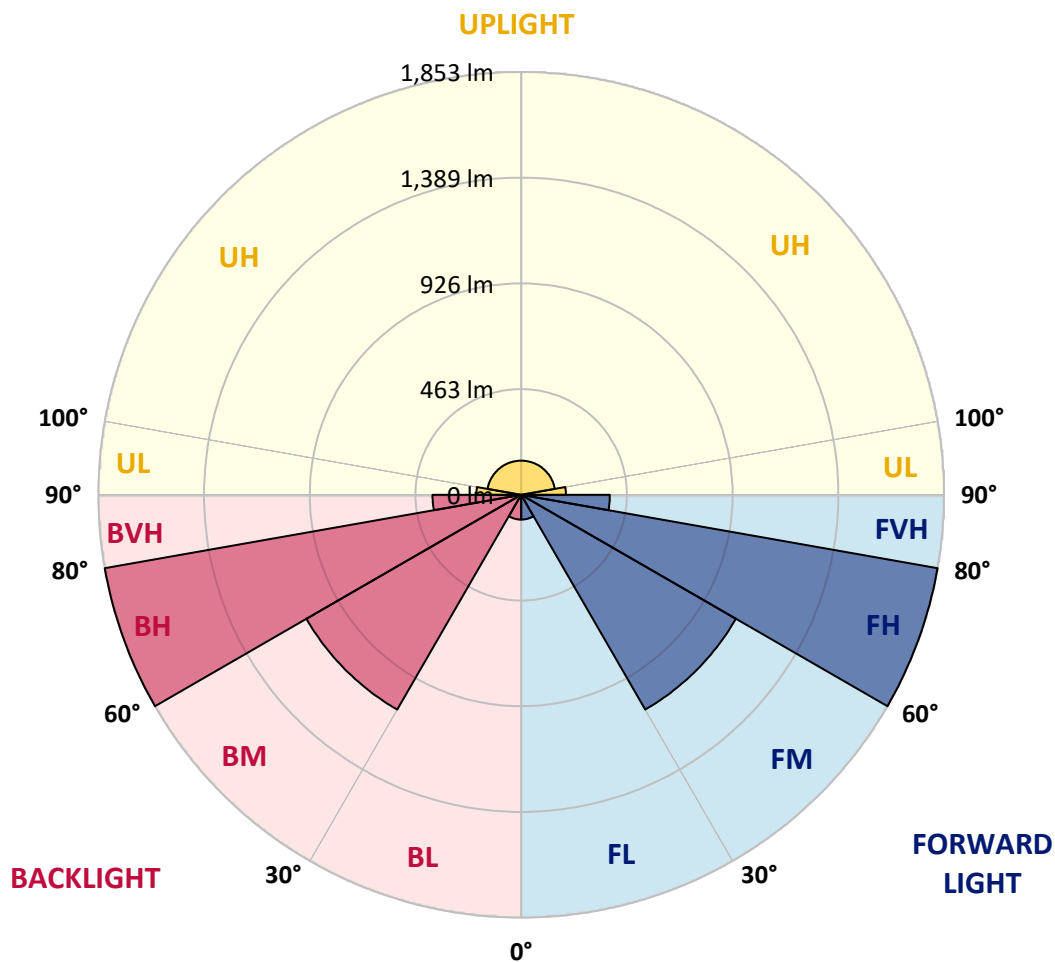
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.4	1.5			
FM (30°-60°)	1086.4	15.2			
FH (60°-80°)	1852.6	25.8			G2/5000
FVH (80°-90°)	388.4	5.4			G3/500
BL (0°-30°)	108.4	1.5	B0/110		
BM (30°-60°)	1086.4	15.2	B2/2500		
BH (60°-80°)	1852.6	25.8	B3/2500		G2/5000
BVH (80°-90°)	388.4	5.4			G3/500
UL (90°-100°)	196.2	2.7		U3/500	
UH (100°-180°)	149.6	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°	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1
2.5°	133.0	133.0	133.0	133.8	133.8	133.8	133.0	133.0	132.1	132.1	132.1
5°	135.4	135.4	135.4	135.4	135.4	135.4	134.5	134.5	133.8	133.8	133.8
7.5°	139.5	139.5	139.5	139.5	139.5	138.5	137.7	137.0	137.0	137.0	137.0
10°	148.3	148.3	147.5	146.7	145.9	144.2	144.2	143.4	143.4	143.4	144.2
12.5°	166.9	166.9	164.6	160.5	155.5	153.9	153.2	154.8	157.3	158.0	159.6
15°	191.3	191.3	188.0	181.6	174.3	167.8	169.4	174.3	178.3	180.8	182.4
17.5°	221.2	221.2	216.5	207.5	197.0	192.9	192.1	198.6	205.1	209.9	213.2
20°	254.5	254.5	248.0	235.9	225.3	222.9	222.2	226.9	236.6	243.9	247.2
22.5°	295.0	295.9	286.2	269.9	259.4	254.5	253.7	260.1	275.6	286.2	290.2
25°	345.3	345.3	334.8	312.1	297.4	289.3	290.9	303.0	325.0	339.6	342.0
27.5°	401.2	399.6	385.8	361.4	340.5	328.3	332.2	350.9	377.7	399.6	402.8
30°	463.6	461.9	442.5	416.6	386.6	372.0	378.5	405.3	441.7	472.5	476.6
32.5°	535.7	534.1	509.8	476.6	436.8	417.4	429.6	467.6	512.2	552.0	557.7
35°	622.4	620.8	588.4	542.3	493.7	470.1	486.3	532.5	585.2	632.9	640.3
37.5°	713.3	713.3	679.1	620.0	556.0	526.8	544.6	597.3	659.7	706.7	714.9
40°	795.9	795.9	761.9	704.2	626.5	587.6	606.3	660.6	716.4	758.6	766.7
42.5°	872.1	874.5	842.9	783.7	700.3	655.7	667.0	714.9	772.4	819.5	827.5
45°	932.8	937.8	918.4	862.4	778.9	726.1	730.3	784.6	852.7	902.1	911.8
47.5°	1006.6	1007.4	993.6	940.9	862.4	804.8	808.1	872.1	946.6	997.6	1002.6
50°	1111.1	1113.6	1101.5	1041.5	958.7	894.0	910.1	976.7	1069.0	1123.3	1125.0
52.5°	1227.1	1229.5	1220.5	1165.5	1070.6	1008.3	1033.4	1110.4	1202.0	1247.3	1245.7
55°	1348.6	1354.3	1359.1	1308.2	1207.7	1143.6	1177.6	1257.9	1343.1	1387.5	1382.6
57.5°	1484.0	1488.0	1501.0	1455.7	1365.6	1303.3	1346.2	1426.5	1513.1	1556.1	1548.9
60°	1669.6	1676.0	1686.6	1624.2	1530.9	1481.5	1528.5	1613.6	1702.0	1727.9	1718.2
62.5°	1838.2	1845.5	1874.7	1827.6	1706.1	1654.1	1716.6	1798.4	1872.1	1884.4	1868.2
65°	2002.7	2010.8	2050.5	2010.0	1889.2	1815.5	1881.1	1948.4	2017.3	2026.2	2010.0
67.5°	2152.6	2174.5	2222.4	2166.4	2030.2	1945.9	1983.3	2037.5	2098.4	2087.8	2067.5
70°	2229.7	2258.0	2306.6	2267.6	2099.1	1971.9	1992.2	2008.4	2037.5	2022.9	2005.1
71°	2214.2	2243.4	2310.8	2275.0	2095.0	1953.2	1958.9	1959.8	1984.0	1953.2	1931.3
72.5°	2104.0	2134.8	2229.7	2234.5	2054.5	1899.8	1874.7	1854.3	1841.4	1786.3	1769.2
75°	1761.2	1801.6	1907.8	1968.7	1868.2	1717.4	1673.7	1605.6	1568.3	1505.0	1501.0
77.5°	1370.5	1397.3	1501.0	1593.4	1565.8	1468.6	1419.2	1352.7	1313.8	1264.3	1235.1
80°	1021.2	1030.1	1124.2	1228.7	1260.3	1221.4	1184.9	1125.0	1078.7	1031.0	1005.8
82.5°	726.1	743.2	828.3	941.9	1016.3	1018.0	992.1	924.8	872.9	822.6	803.2
85°	491.1	508.2	590.9	710.8	807.2	848.6	822.6	734.3	656.5	598.0	585.9
87.5°	308.0	324.2	384.1	491.1	618.4	681.6	651.6	542.3	453.9	400.3	389.8
90°	201.8	211.5	247.2	316.9	426.3	513.8	479.7	377.7	302.3	254.5	249.6
92.5°	139.5	142.7	164.6	205.1	283.6	354.2	329.1	254.5	198.6	164.6	159.6
95°	99.7	102.9	116.7	141.1	189.7	232.6	218.8	172.6	135.4	111.9	108.6
97.5°	73.8	76.2	88.4	104.6	133.8	156.5	146.7	122.4	98.9	81.1	78.6
100°	57.6	58.4	69.0	81.1	99.7	111.9	104.6	91.6	76.2	63.3	61.6
102.5°	45.4	46.2	54.3	64.0	77.0	85.9	80.2	70.5	59.2	50.3	49.3
105°	35.6	36.5	42.2	51.1	61.6	67.3	63.3	55.0	45.4	38.9	38.9
107.5°	28.4	29.2	33.3	40.5	49.3	54.3	51.1	42.9	35.6	30.8	30.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	23.5	23.5	26.8	32.4	40.5	44.6	41.3	34.1	28.4	25.1	24.4
112.5°	19.4	19.4	21.9	26.8	33.3	36.5	34.1	27.6	22.7	20.2	20.2
115°	16.2	17.1	17.8	22.7	28.4	30.8	28.4	23.5	18.7	17.1	17.1
117.5°	14.6	14.6	16.2	19.4	24.4	26.8	24.4	20.2	16.2	15.4	15.4
120°	13.0	13.0	13.7	16.2	21.1	22.7	21.1	17.1	14.6	13.7	13.7
122.5°	12.1	12.1	12.1	14.6	17.8	20.2	18.7	15.4	13.0	12.1	12.1
125°	11.4	11.4	11.4	13.0	16.2	17.1	16.2	13.7	11.4	11.4	11.4
127.5°	11.4	11.4	11.4	12.1	13.7	15.4	14.6	12.1	10.5	10.5	10.5
130°	10.5	10.5	10.5	11.4	12.1	13.0	12.1	11.4	10.5	10.5	10.5
132.5°	9.8	9.8	9.8	9.8	10.5	11.4	10.5	9.8	9.8	9.8	9.8
135°	9.0	9.0	9.0	8.0	9.0	9.8	9.0	8.0	8.0	9.0	9.0
137.5°	8.0	8.0	7.3	7.3	7.3	8.0	7.3	7.3	7.3	7.3	8.0
140°	7.3	7.3	6.4	6.4	6.4	6.4	5.7	5.7	5.7	6.4	6.4
142.5°	6.4	5.7	5.7	4.9	4.9	4.9	4.9	4.1	4.9	5.7	5.7
145°	4.9	4.9	4.9	4.1	4.1	4.1	3.3	3.3	4.1	4.1	4.1
147.5°	4.1	4.1	3.3	3.3	2.4	2.4	2.4	2.4	3.3	3.3	3.3
150°	3.3	3.3	2.4	2.4	1.6	1.6	1.6	1.6	2.4	2.4	2.4
152.5°	2.4	2.4	1.6	1.6	1.6	0.8	0.8	0.8	1.6	1.6	1.6
155°	1.6	1.6	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	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)