

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: P266227

Luminaire Tested: **LXF.LXT-AF24-100-D-U-5WQ-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266227
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-AF24-100-D-U-5WQ-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 7685.9 lumens
Efficiency: N/A
Efficacy: 80.1 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): 96
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

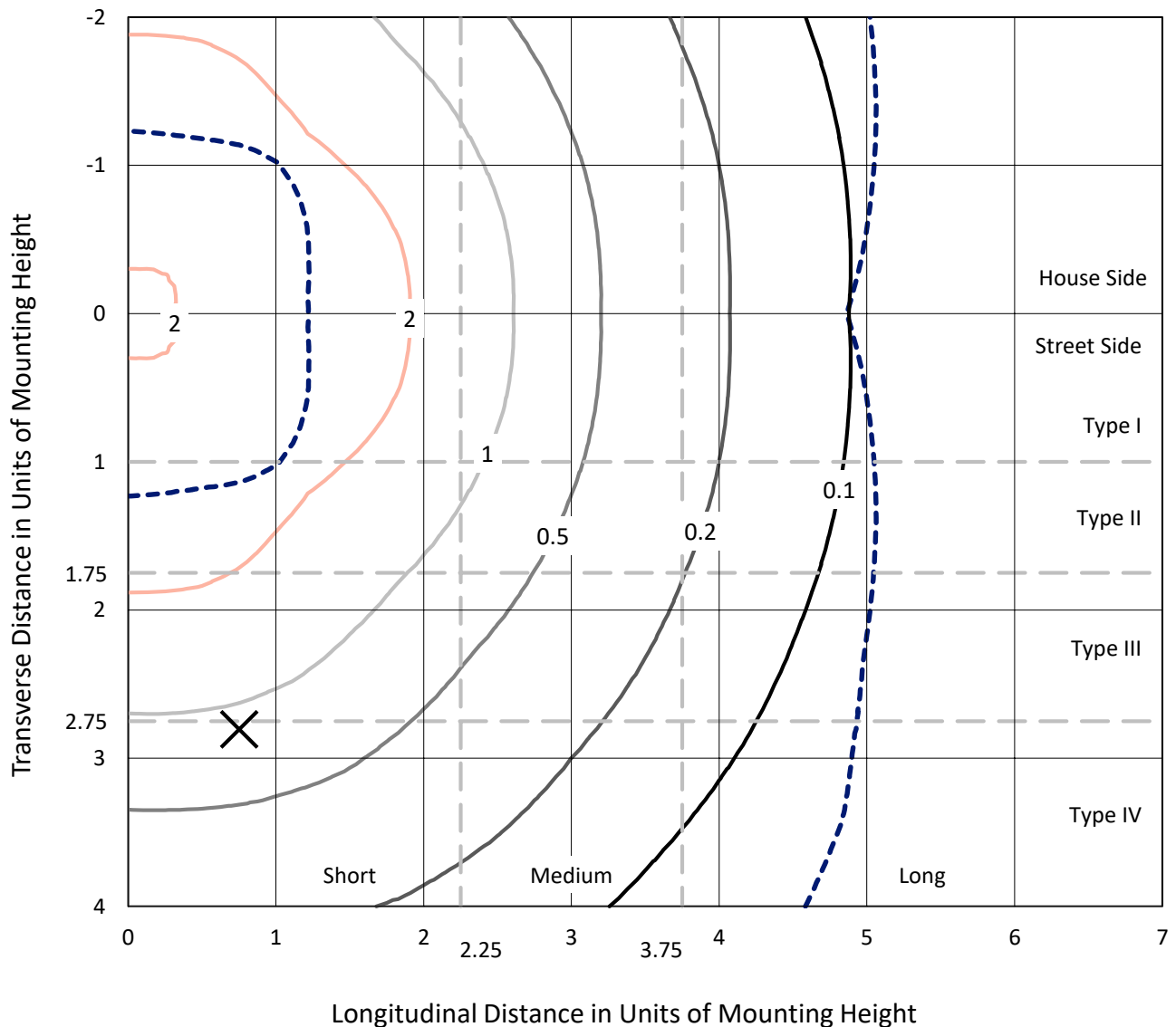


REPORT NUMBER: P266227

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

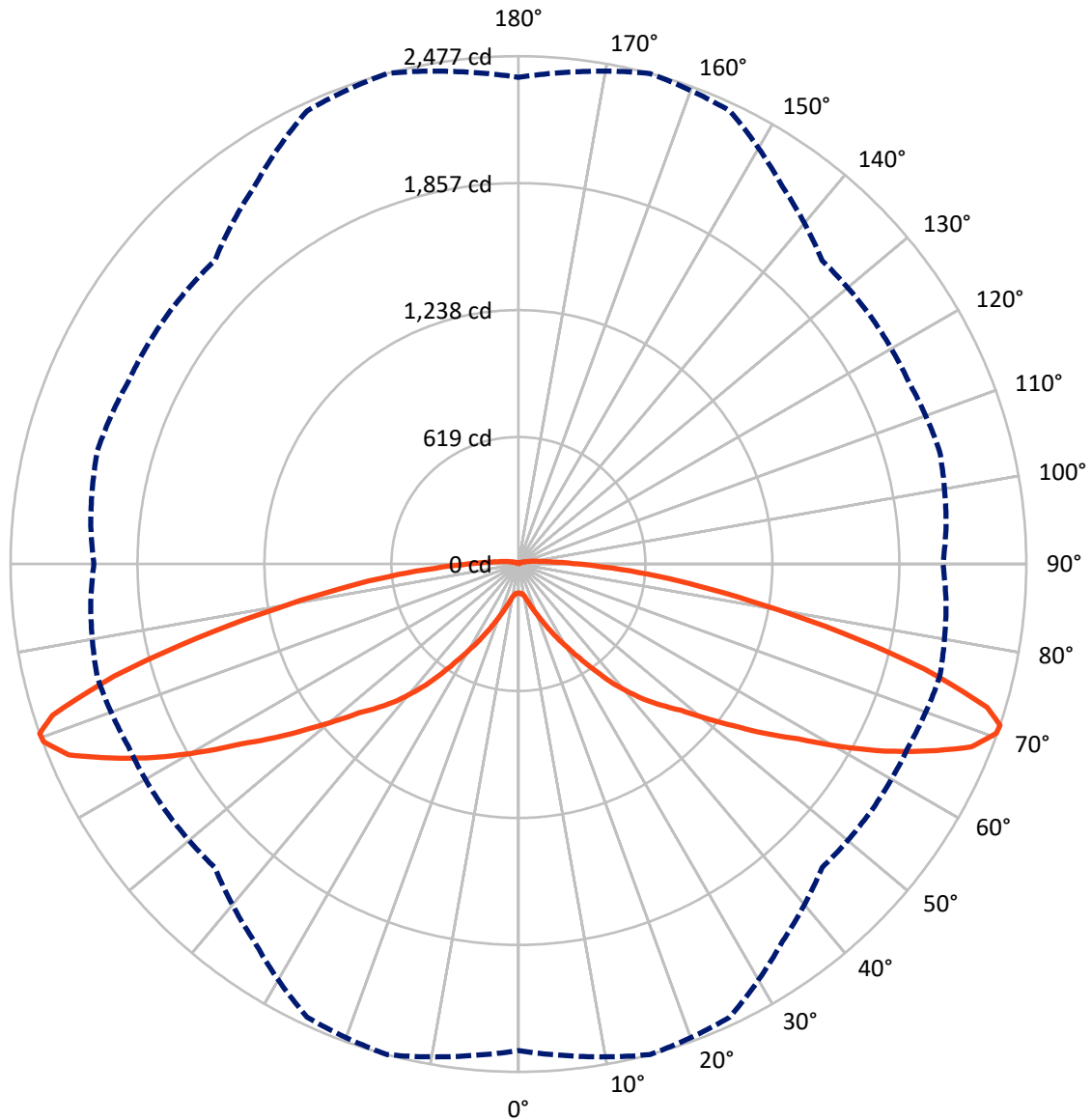


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266227

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P266227

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7027

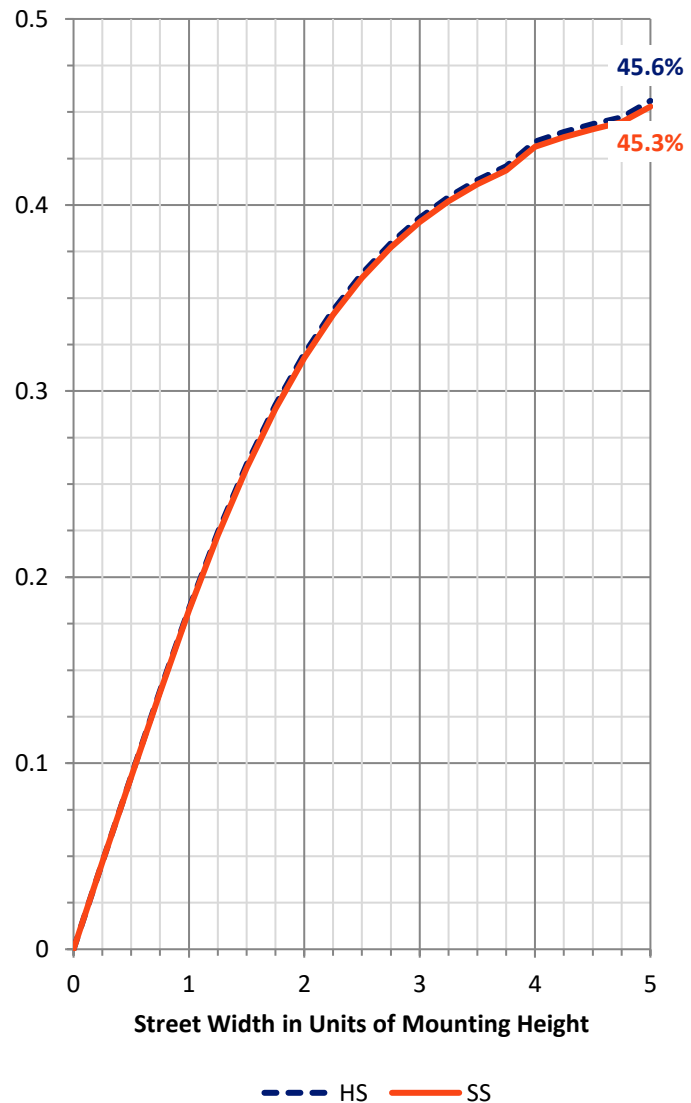
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3682.6	160.3	3843.0
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3682.6	160.3	3843.0
	% Fixture	47.9	2.1	50.0
Total	Lumens	7365.3	320.7	7685.9
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.2
10°-20°	57.0	0.7
20°-30°	161.2	2.1
30°-40°	375.8	4.9
40°-50°	701.5	9.1
50°-60°	1251.7	16.3
60°-70°	2052.0	26.7
70°-80°	1919.4	25.0
80°-90°	832.5	10.8
90°-100°	210.3	2.7
100°-110°	61.3	0.8
110°-120°	25.2	0.3
120°-130°	13.3	0.2
130°-140°	7.3	0.1
140°-150°	2.8	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7365.3	95.8
0°-180°	7685.9	100.0

Coefficient of Utilization



REPORT NUMBER: P266227

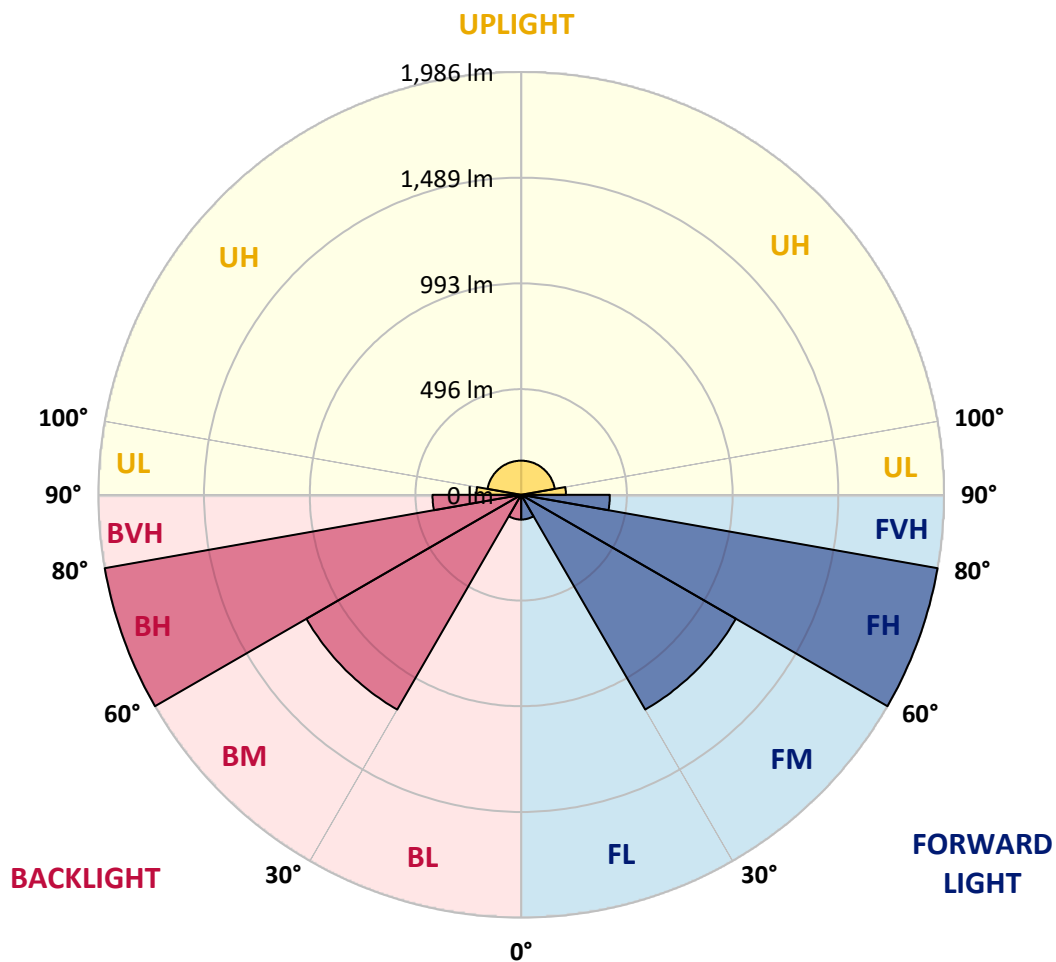
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.2	1.5			
FM (30°-60°)	1164.5	15.2			
FH (60°-80°)	1985.7	25.8			G2/5000
FVH (80°-90°)	416.3	5.4			G3/500
BL (0°-30°)	116.2	1.5	B1/500		
BM (30°-60°)	1164.5	15.2	B2/2500		
BH (60°-80°)	1985.7	25.8	B3/2500		G2/5000
BVH (80°-90°)	416.3	5.4			G3/500
UL (90°-100°)	210.3	2.7		U3/500	
UH (100°-180°)	160.3	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°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7
2.5°	142.6	142.6	142.6	143.3	143.3	143.3	142.6	142.6	141.7	141.7	141.7
5°	145.0	145.0	145.0	145.0	145.0	145.0	144.2	144.2	143.3	143.3	143.3
7.5°	149.4	149.4	149.4	149.4	149.4	148.6	147.7	146.9	146.9	146.9	146.9
10°	159.0	159.0	158.1	157.3	156.3	154.6	154.6	153.8	153.8	153.8	154.6
12.5°	178.9	178.9	176.3	172.0	166.7	165.1	164.2	165.9	168.5	169.4	171.1
15°	205.1	205.1	201.5	194.7	186.8	179.8	181.5	186.8	191.1	193.8	195.4
17.5°	237.2	237.2	231.9	222.4	211.1	206.8	205.9	212.9	219.7	224.9	228.4
20°	272.7	272.7	265.8	252.9	241.6	238.9	238.1	243.3	253.7	261.4	265.0
22.5°	316.3	317.1	306.6	289.3	277.9	272.7	271.8	278.8	295.4	306.6	311.1
25°	370.1	370.1	358.9	334.4	318.8	310.2	311.9	324.8	348.4	364.1	366.6
27.5°	430.0	428.3	413.5	387.4	364.8	351.9	356.2	376.2	404.9	428.3	431.7
30°	496.9	495.1	474.3	446.5	414.4	398.8	405.7	434.4	473.4	506.5	510.7
32.5°	574.2	572.5	546.3	510.7	468.2	447.4	460.4	501.3	549.0	591.7	597.7
35°	667.3	665.5	630.7	581.2	529.0	503.9	521.2	570.8	627.1	678.5	686.2
37.5°	764.5	764.5	727.9	664.6	595.9	564.7	583.8	640.2	707.1	757.5	766.3
40°	853.1	853.1	816.6	754.9	671.6	629.8	649.8	708.0	768.0	813.1	821.8
42.5°	934.7	937.3	903.4	840.0	750.5	702.8	715.0	766.3	827.9	878.3	886.9
45°	1000.0	1005.2	984.3	924.4	834.9	778.4	782.8	841.0	913.8	966.8	977.3
47.5°	1079.0	1079.9	1065.0	1008.5	924.4	862.6	866.1	934.7	1014.6	1069.4	1074.6
50°	1191.1	1193.6	1180.6	1116.4	1027.8	958.2	975.6	1046.9	1145.9	1204.1	1205.7
52.5°	1315.3	1317.9	1308.3	1249.3	1147.6	1080.8	1107.6	1190.2	1288.3	1336.9	1335.2
55°	1445.6	1451.7	1456.8	1402.2	1294.4	1225.7	1262.3	1348.3	1439.4	1487.2	1482.1
57.5°	1590.5	1595.0	1608.9	1560.3	1463.8	1397.0	1442.9	1528.9	1621.9	1668.0	1660.1
60°	1789.6	1796.5	1807.7	1740.9	1641.1	1588.1	1638.4	1729.6	1824.3	1852.1	1841.6
62.5°	1970.3	1978.1	2009.4	1958.9	1828.7	1773.1	1840.0	1927.8	2006.8	2019.7	2002.4
65°	2146.6	2155.4	2197.9	2154.4	2025.0	1945.9	2016.2	2088.4	2162.2	2171.8	2154.4
67.5°	2307.3	2330.8	2382.0	2322.1	2176.1	2085.8	2125.7	2184.0	2249.1	2237.8	2216.1
70°	2389.9	2420.3	2472.3	2430.6	2250.0	2113.6	2135.4	2152.7	2184.0	2168.2	2149.3
71°	2373.3	2404.7	2476.6	2438.4	2245.7	2093.6	2099.7	2100.5	2126.6	2093.6	2070.1
72.5°	2255.1	2288.3	2389.9	2395.1	2202.3	2036.3	2009.4	1987.6	1973.8	1914.6	1896.4
75°	1887.7	1931.1	2044.9	2110.1	2002.4	1840.7	1793.9	1721.0	1681.0	1613.1	1608.9
77.5°	1469.0	1497.7	1608.9	1707.9	1678.4	1574.1	1521.1	1449.9	1408.3	1355.3	1323.9
80°	1094.6	1104.1	1204.8	1316.9	1350.8	1309.2	1270.1	1205.7	1156.3	1105.0	1078.1
82.5°	778.4	796.5	887.9	1009.4	1089.4	1091.1	1063.4	991.2	935.7	881.7	860.8
85°	526.4	544.7	633.2	761.9	865.2	909.5	881.7	787.0	703.6	641.1	628.0
87.5°	330.0	347.5	411.8	526.4	662.8	730.6	698.4	581.2	486.5	429.1	417.8
90°	216.3	226.7	265.0	339.6	457.0	550.8	514.3	404.9	324.0	272.7	267.5
92.5°	149.4	152.9	176.3	219.7	304.0	379.7	352.8	272.7	212.9	176.3	171.1
95°	106.9	110.3	125.1	151.2	203.2	249.3	234.5	185.1	145.0	119.8	116.4
97.5°	79.1	81.7	94.7	112.1	143.3	167.7	157.3	131.2	106.0	86.9	84.4
100°	61.7	62.5	73.8	86.9	106.9	119.8	112.1	98.2	81.7	67.7	66.0
102.5°	48.7	49.5	58.2	68.6	82.6	92.0	86.0	75.5	63.4	53.9	53.0
105°	38.2	39.0	45.2	54.7	66.0	72.1	67.7	59.1	48.7	41.7	41.7
107.5°	30.5	31.4	35.7	43.5	53.0	58.2	54.7	46.1	38.2	33.0	33.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	25.2	25.2	28.7	34.8	43.5	47.8	44.2	36.6	30.5	26.9	26.1
112.5°	20.8	20.8	23.4	28.7	35.7	39.0	36.6	29.6	24.3	21.6	21.6
115°	17.3	18.2	19.1	24.3	30.5	33.0	30.5	25.2	20.0	18.2	18.2
117.5°	15.6	15.6	17.3	20.8	26.1	28.7	26.1	21.6	17.3	16.4	16.4
120°	14.0	14.0	14.7	17.3	22.5	24.3	22.5	18.2	15.6	14.7	14.7
122.5°	13.0	13.0	13.0	15.6	19.1	21.6	20.0	16.4	14.0	13.0	13.0
125°	12.1	12.1	12.1	14.0	17.3	18.2	17.3	14.7	12.1	12.1	12.1
127.5°	12.1	12.1	12.1	13.0	14.7	16.4	15.6	13.0	11.3	11.3	11.3
130°	11.3	11.3	11.3	12.1	13.0	14.0	13.0	12.1	11.3	11.3	11.3
132.5°	10.4	10.4	10.4	10.4	11.3	12.1	11.3	10.4	10.4	10.4	10.4
135°	9.5	9.5	9.5	8.8	9.5	10.4	9.5	8.8	8.8	9.5	9.5
137.5°	8.8	8.8	7.8	7.8	7.8	8.8	7.8	7.8	7.8	7.8	8.8
140°	7.8	7.8	6.9	6.9	6.9	6.9	6.1	6.1	6.1	6.9	6.9
142.5°	6.9	6.1	6.1	5.2	5.2	5.2	5.2	4.3	5.2	6.1	6.1
145°	5.2	5.2	5.2	4.3	4.3	4.3	3.5	3.5	4.3	4.3	4.3
147.5°	4.3	4.3	3.5	3.5	2.6	2.6	2.6	2.6	3.5	3.5	3.5
150°	3.5	3.5	2.6	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6
152.5°	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7	1.7
155°	1.7	1.7	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	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)