

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: P255072

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255072
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
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 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: 8355.4 lumens
Efficiency: N/A
Efficacy: 100.7 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

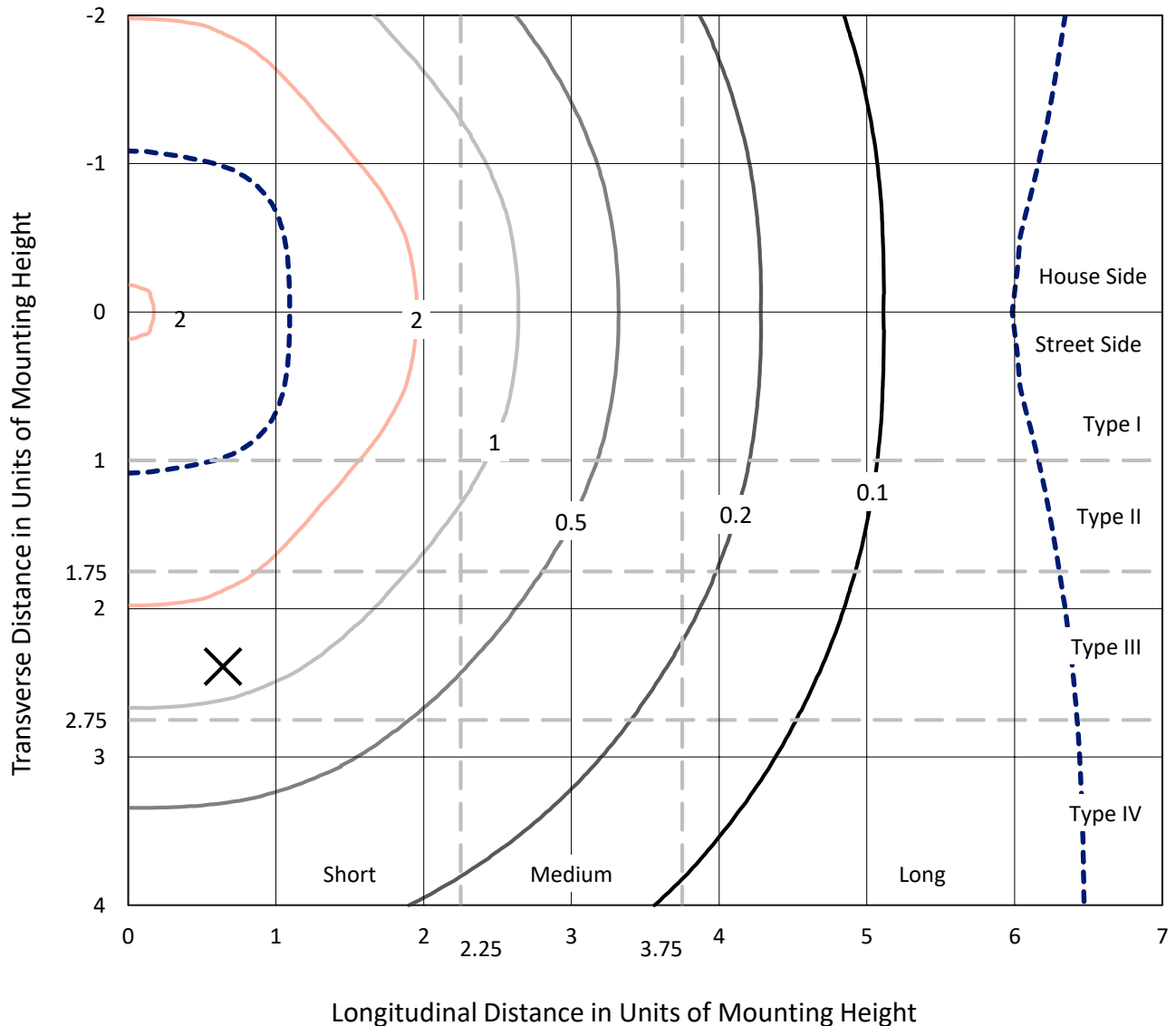


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

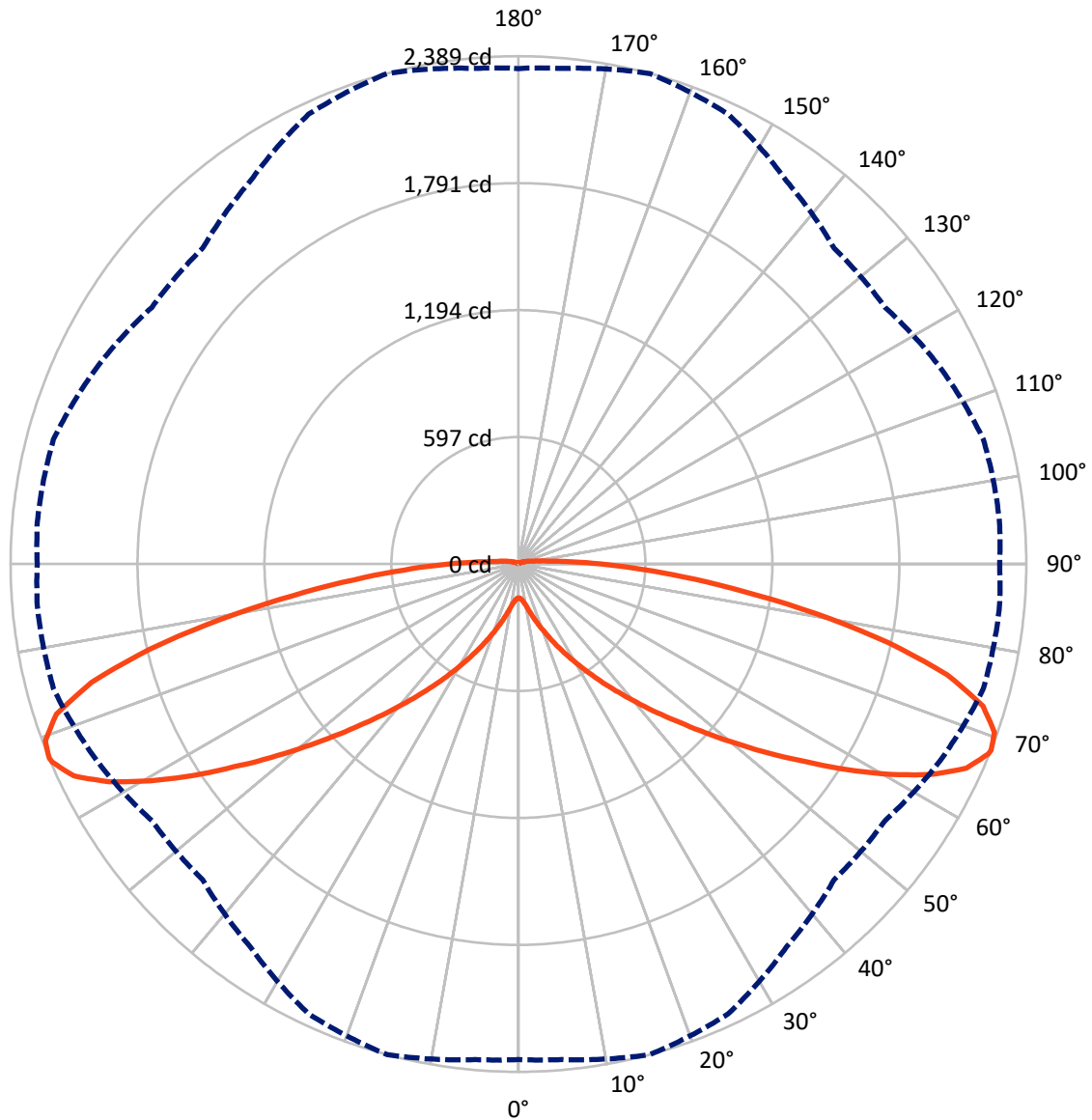


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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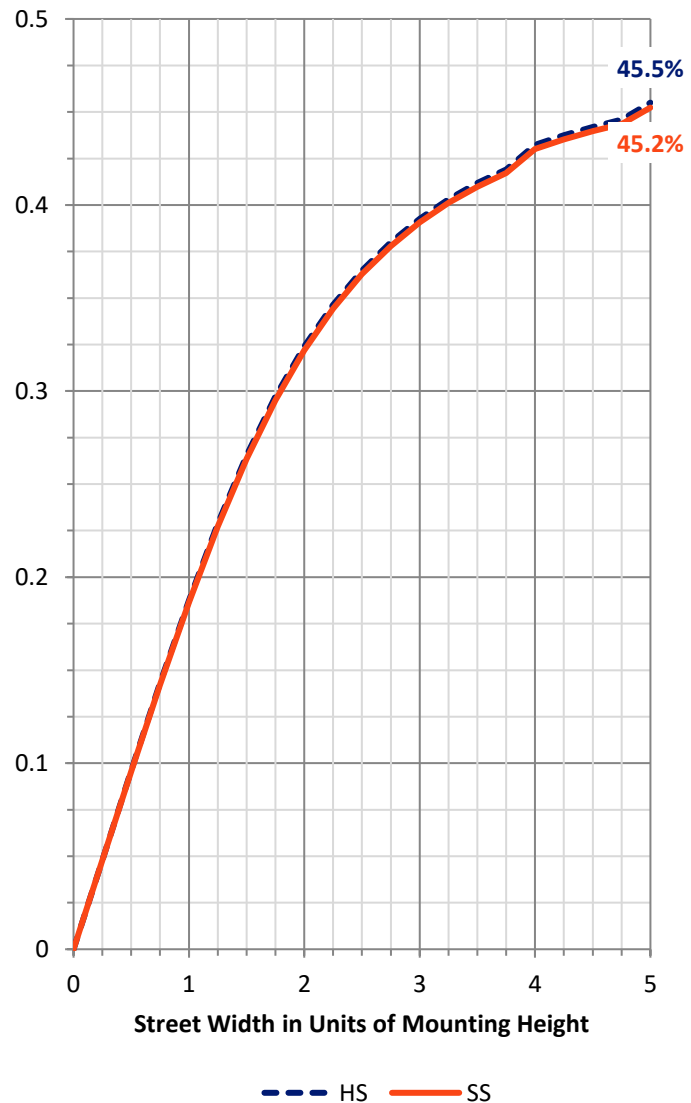
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4010.5	167.2	4177.7
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	4010.5	167.2	4177.7
	% Fixture	48.0	2.0	50.0
Total	Lumens	8021.1	334.4	8355.4
	% Fixture	96.0	4.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.2
10°-20°	76.4	0.9
20°-30°	201.3	2.4
30°-40°	422.6	5.1
40°-50°	793.4	9.5
50°-60°	1401.9	16.8
60°-70°	2114.4	25.3
70°-80°	2049.4	24.5
80°-90°	944.6	11.3
90°-100°	224.7	2.7
100°-110°	62.8	0.8
110°-120°	26.4	0.3
120°-130°	11.8	0.1
130°-140°	5.7	0.1
140°-150°	2.4	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8021.1	96.0
0°-180°	8355.4	100.0



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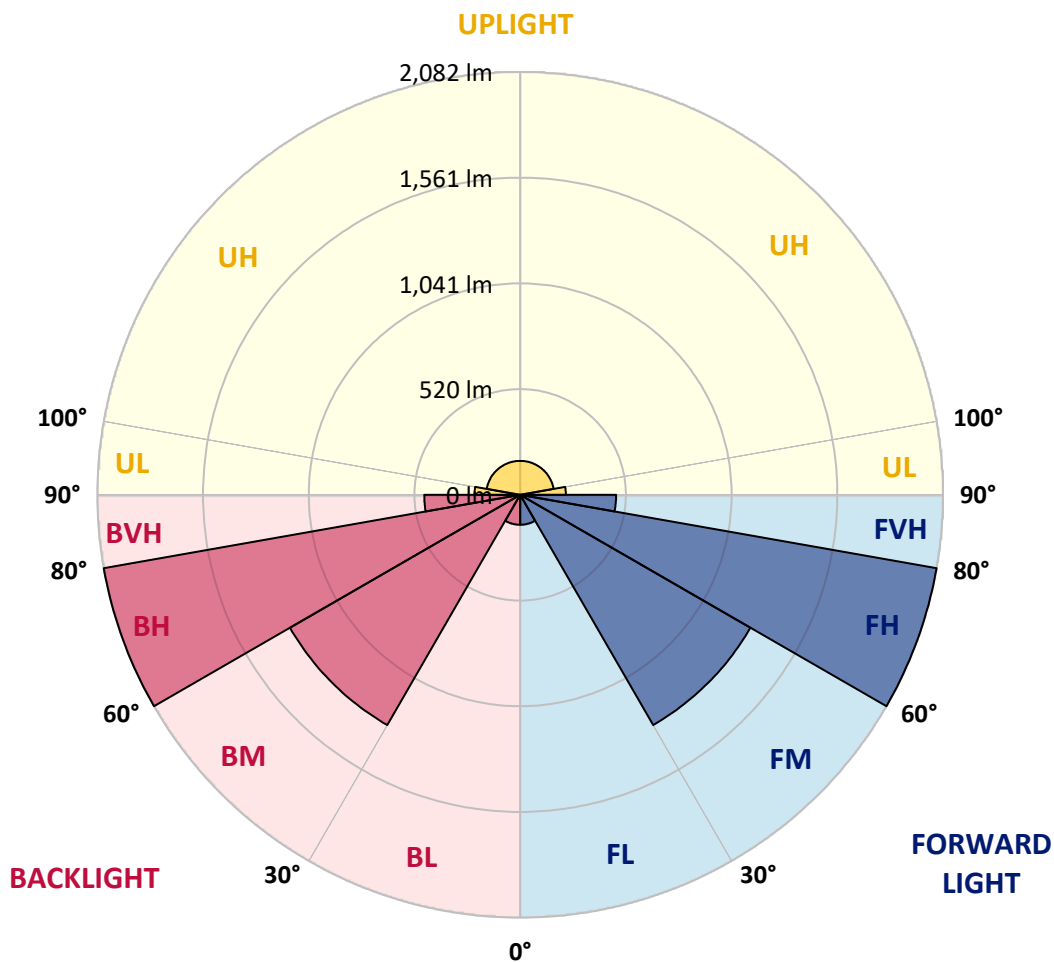
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.4	1.8			
FM (30°-60°)	1308.9	15.7			
FH (60°-80°)	2081.9	24.9			G2/5000
FVH (80°-90°)	472.3	5.7			G3/500
BL (0°-30°)	147.4	1.8	B1/500		
BM (30°-60°)	1308.9	15.7	B2/2500		
BH (60°-80°)	2081.9	24.9	B3/2500		G2/5000
BVH (80°-90°)	472.3	5.7			G3/500
UL (90°-100°)	224.7	2.7		U3/500	
UH (100°-180°)	167.2	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°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	162.1	162.1	162.1	162.1	162.1	163.1	162.1	162.1	162.1	162.1	162.1
5°	168.7	168.7	168.7	169.6	169.6	169.6	169.6	169.6	169.6	170.5	169.6
7.5°	180.9	180.9	180.9	180.9	180.9	180.9	181.8	182.7	182.7	183.6	183.6
10°	199.6	199.6	198.7	198.7	198.7	199.6	199.6	201.5	202.4	205.2	204.3
12.5°	228.6	228.6	226.8	224.9	223.9	223.0	224.9	228.6	231.5	236.1	235.2
15°	261.5	261.5	259.5	256.8	255.8	254.9	255.8	260.5	265.1	269.9	268.9
17.5°	298.0	297.1	295.2	291.4	291.4	290.5	290.5	295.2	300.8	307.4	307.4
20°	338.3	336.4	333.6	328.9	328.9	328.0	328.9	332.7	341.1	348.6	348.6
22.5°	384.2	382.3	378.6	373.9	371.1	369.2	370.1	375.7	386.1	396.4	397.3
25°	435.8	432.9	429.2	423.6	416.0	412.4	414.2	423.6	436.7	449.8	447.0
27.5°	490.1	489.2	483.5	475.1	463.8	458.2	462.9	474.1	490.1	504.1	505.1
30°	553.8	551.0	543.5	530.4	518.2	507.0	511.7	526.6	548.2	566.9	567.8
32.5°	620.3	619.4	611.0	592.2	571.6	561.3	566.0	587.6	612.8	631.6	635.4
35°	697.1	695.3	685.9	661.5	635.4	621.2	625.9	652.2	683.1	706.6	708.4
37.5°	781.5	776.8	765.6	736.5	702.8	685.9	690.6	720.6	758.1	781.5	787.2
40°	868.7	867.8	854.6	820.9	779.7	756.3	763.7	797.5	840.6	866.7	870.5
42.5°	969.9	968.0	954.9	915.5	864.9	837.7	846.2	886.5	933.3	959.5	964.2
45°	1076.7	1078.6	1060.8	1022.3	963.3	932.4	938.0	984.0	1035.4	1068.3	1072.1
47.5°	1200.4	1197.6	1187.2	1139.5	1072.1	1036.4	1043.0	1093.5	1154.5	1185.4	1187.2
50°	1330.7	1327.8	1324.1	1274.4	1196.6	1160.1	1163.8	1219.2	1280.9	1312.9	1321.2
52.5°	1475.9	1476.8	1478.7	1424.4	1337.2	1287.6	1296.0	1358.8	1424.4	1453.4	1460.9
55°	1637.0	1638.1	1641.7	1586.5	1488.1	1432.7	1443.1	1512.4	1582.7	1611.8	1614.6
57.5°	1816.0	1811.3	1826.4	1760.8	1653.0	1589.3	1600.5	1672.6	1747.6	1775.7	1781.4
60°	1995.1	1988.5	2009.1	1943.5	1819.8	1750.5	1756.1	1840.4	1921.0	1938.8	1951.0
62.5°	2146.9	2153.4	2180.5	2114.0	1977.3	1892.9	1902.3	1987.5	2077.5	2095.3	2098.1
65°	2265.8	2275.2	2315.6	2246.2	2110.2	2009.1	2022.2	2110.2	2203.0	2211.5	2209.6
67.5°	2328.6	2337.0	2383.0	2325.8	2188.1	2088.8	2096.2	2181.5	2260.2	2268.7	2260.2
68°	2330.5	2339.9	2388.6	2334.3	2198.3	2100.0	2104.6	2188.1	2264.0	2271.5	2263.1
70°	2302.4	2324.9	2375.5	2335.2	2207.7	2115.9	2116.9	2184.3	2256.4	2250.8	2243.3
72.5°	2193.7	2213.4	2284.6	2267.7	2160.9	2082.2	2071.0	2117.8	2160.0	2144.0	2139.3
75°	1972.6	1991.3	2083.1	2101.9	2041.9	1984.7	1957.5	1972.6	1971.6	1942.6	1931.3
77.5°	1652.1	1678.3	1779.5	1848.9	1829.1	1805.7	1759.8	1737.4	1695.1	1636.1	1617.4
80°	1283.8	1310.0	1419.7	1516.2	1555.5	1558.4	1516.2	1441.2	1356.8	1276.3	1260.4
82.5°	952.1	979.3	1071.0	1191.0	1242.6	1272.6	1225.7	1129.1	1034.5	945.5	929.6
85°	665.3	685.0	777.7	875.2	950.2	983.0	931.5	848.9	753.4	676.6	661.5
87.5°	453.6	464.8	537.9	635.4	705.6	737.4	693.5	612.8	524.8	454.5	438.5
90°	287.7	295.2	349.5	431.1	502.3	530.4	495.7	425.4	344.8	287.7	277.4
92.5°	176.2	179.9	220.2	285.8	345.8	377.7	346.7	284.0	218.3	177.1	171.4
95°	115.3	118.0	141.5	183.6	233.3	256.8	236.1	189.2	145.3	118.0	114.4
97.5°	85.3	87.2	101.2	123.7	153.6	171.4	157.4	129.3	104.0	87.2	84.3
100°	66.5	67.5	76.8	90.9	107.7	118.0	110.6	94.6	78.7	66.5	65.6
102.5°	53.4	53.4	61.9	72.1	82.4	88.1	83.4	75.0	61.9	52.5	51.6
105°	42.1	43.1	49.7	59.0	66.5	70.3	67.5	60.9	49.7	41.2	40.3
107.5°	33.8	33.8	40.3	48.7	56.3	59.0	56.3	50.6	39.4	32.8	31.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	26.2	27.2	31.8	40.3	46.9	49.7	46.9	41.2	31.8	26.2	25.3
112.5°	21.6	21.6	25.3	32.8	39.4	41.2	39.4	32.8	25.3	20.7	20.7
115°	17.8	17.8	20.7	27.2	32.8	34.7	32.8	27.2	20.7	16.9	16.9
117.5°	15.0	16.0	17.8	22.5	27.2	28.1	27.2	22.5	16.9	15.0	14.0
120°	13.1	14.0	15.0	18.7	22.5	23.4	21.6	17.8	14.0	13.1	12.2
122.5°	12.2	12.2	13.1	15.0	18.7	19.6	17.8	15.0	12.2	11.3	11.3
125°	11.3	11.3	11.3	13.1	15.0	16.0	15.0	12.2	10.3	10.3	10.3
127.5°	10.3	10.3	10.3	11.3	13.1	13.1	12.2	10.3	9.4	9.4	9.4
130°	9.4	9.4	9.4	9.4	10.3	11.3	10.3	9.4	8.4	8.4	8.4
132.5°	8.4	8.4	8.4	8.4	8.4	9.4	8.4	7.5	7.5	7.5	7.5
135°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	6.5	6.5	6.5
137.5°	6.5	6.5	6.5	6.5	6.5	6.5	5.6	5.6	5.6	6.5	6.5
140°	5.6	5.6	5.6	5.6	4.7	4.7	4.7	4.7	5.6	5.6	5.6
142.5°	5.6	5.6	4.7	4.7	3.8	3.8	3.8	3.8	4.7	4.7	4.7
145°	4.7	4.7	3.8	3.8	3.8	2.8	2.8	3.8	3.8	3.8	3.8
147.5°	3.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	2.8	2.8	2.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8
152.5°	1.8	1.8	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8	1.8
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	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)