

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: P254803

Luminaire Tested: **LXF.LXT-AF24-90-D-U-5WQ-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-28)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-90-D-U-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8833.2 lumens
Efficiency: N/A
Efficacy: 94.0 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 - G4

Input Watts (W): 94
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

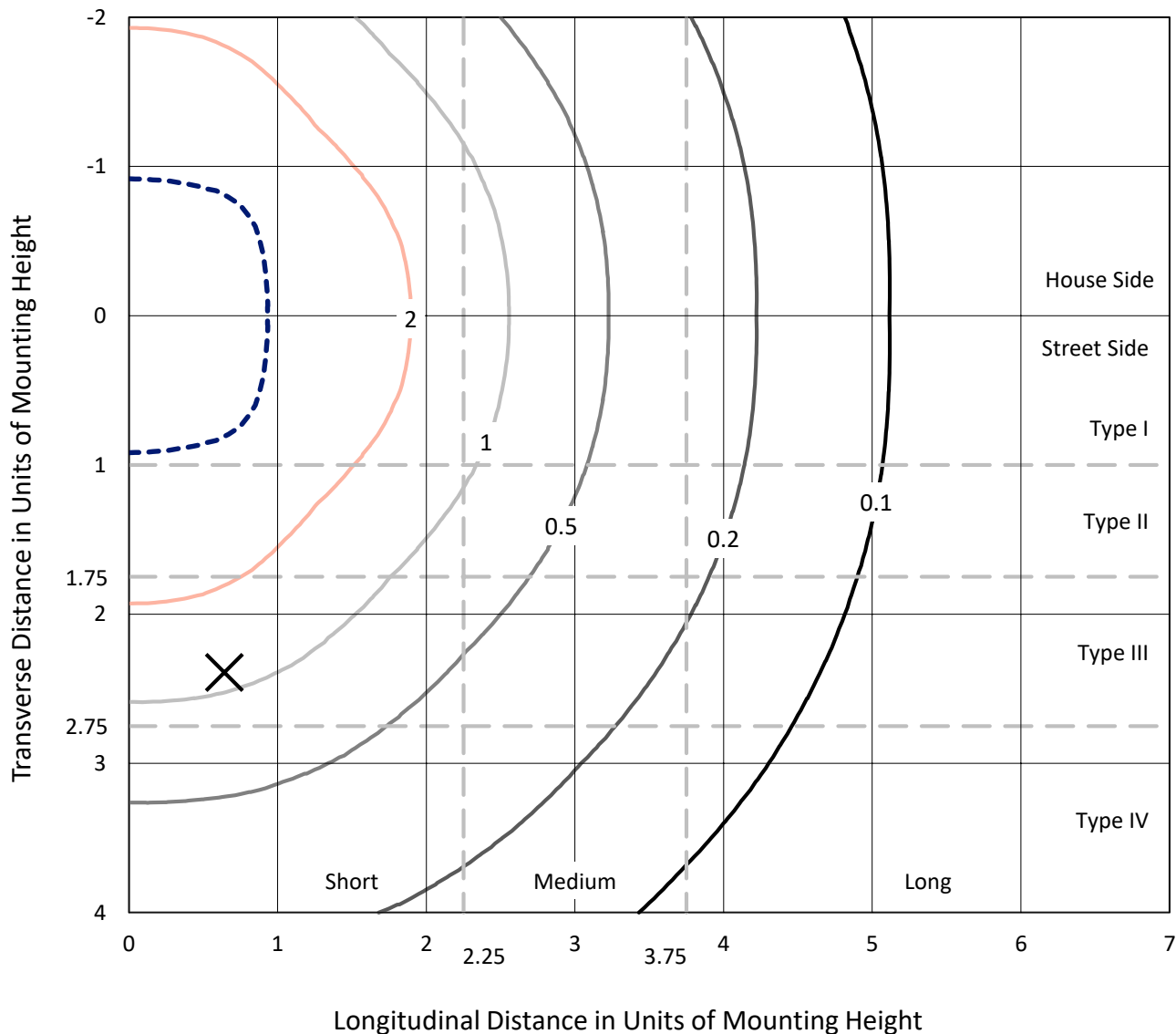


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

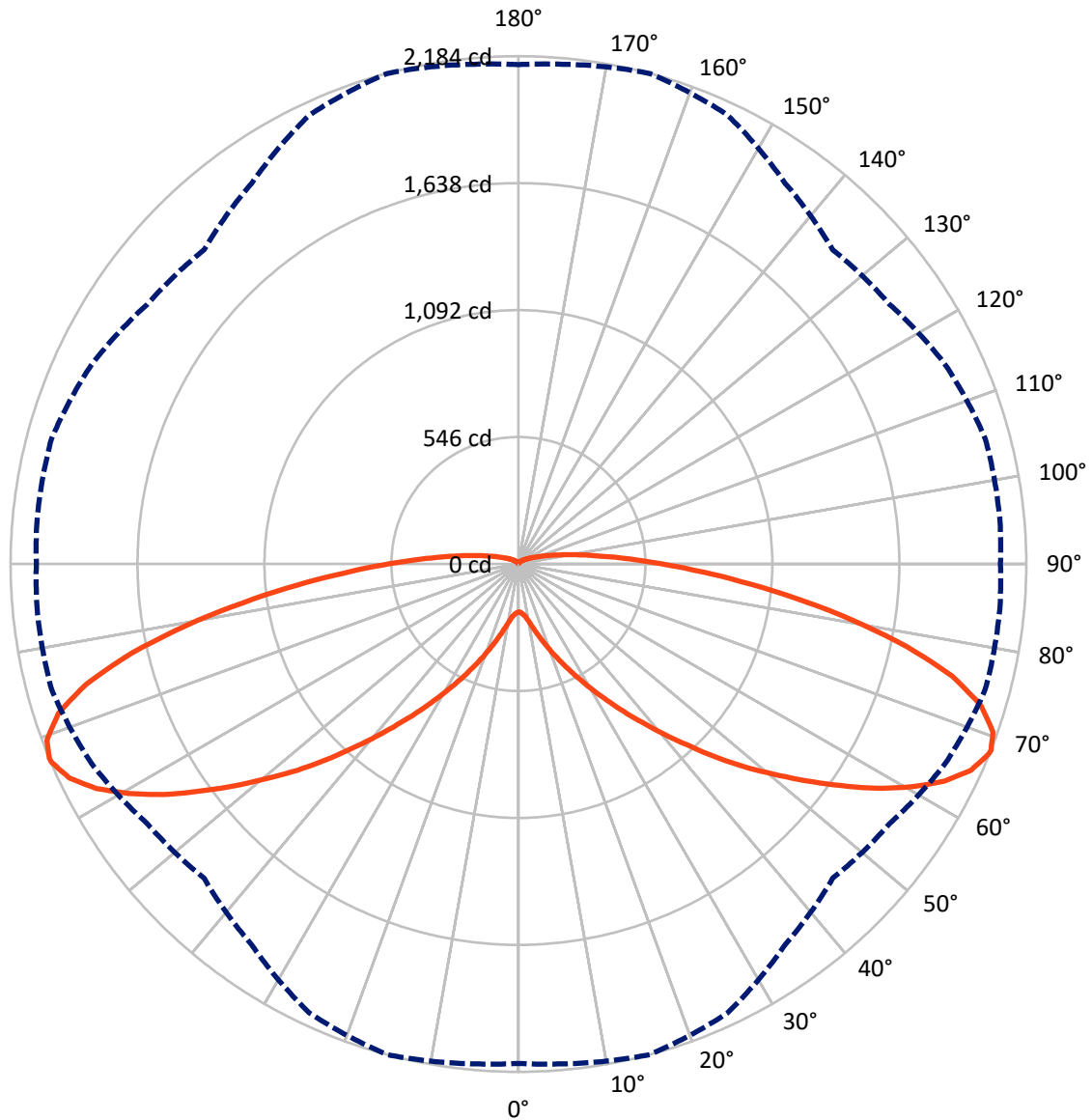


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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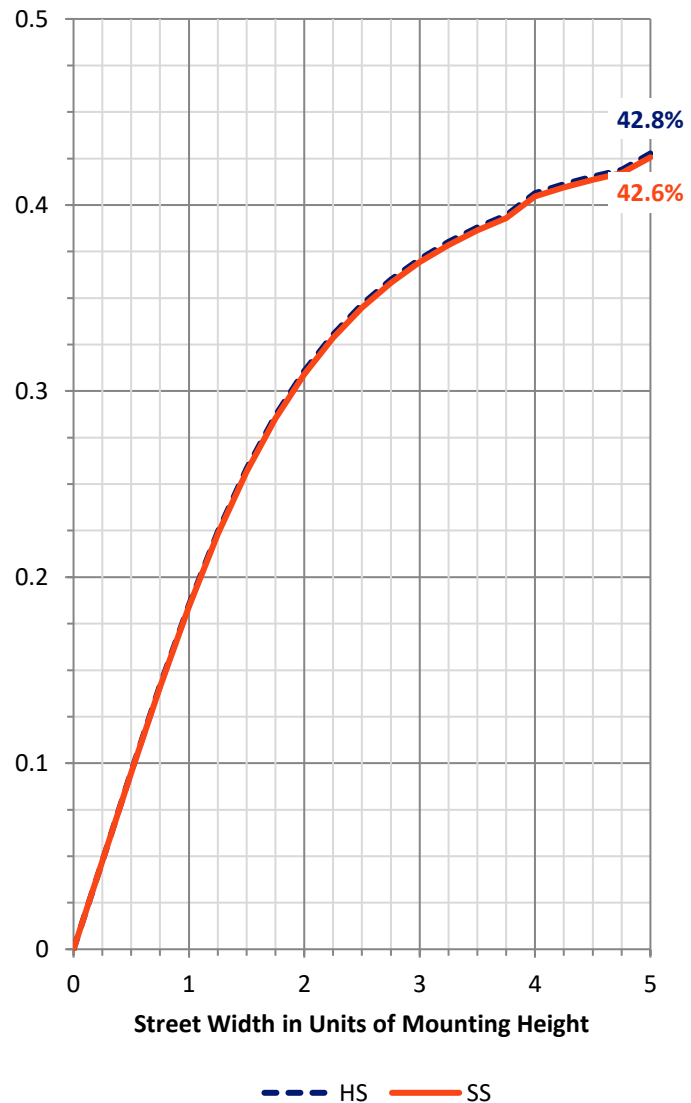
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4047.2	369.4	4416.6
	% Fixture	45.8	4.2	50.0
Street Side	Lumens	4047.2	369.4	4416.6
	% Fixture	45.8	4.2	50.0
Total	Lumens	8094.5	738.7	8833.2
	% Fixture	91.6	8.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.2
10°-20°	90.6	1.0
20°-30°	230.9	2.6
30°-40°	479.6	5.4
40°-50°	875.4	9.9
50°-60°	1430.0	16.2
60°-70°	1972.6	22.3
70°-80°	1906.0	21.6
80°-90°	1087.7	12.3
90°-100°	437.8	5.0
100°-110°	171.9	1.9
110°-120°	74.5	0.8
120°-130°	34.2	0.4
130°-140°	14.9	0.2
140°-150°	4.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8094.5	91.6
0°-180°	8833.2	100.0



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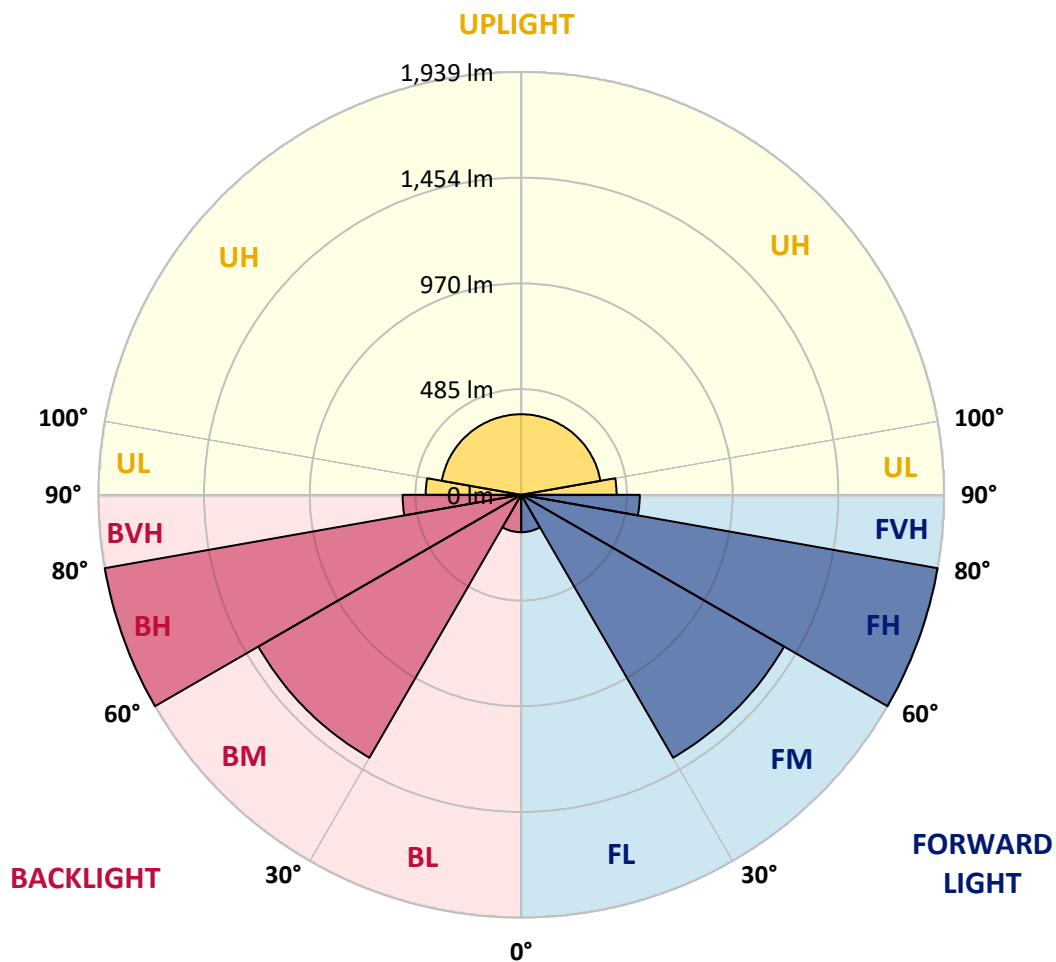
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.6	1.9			
FM (30°-60°)	1392.5	15.8			
FH (60°-80°)	1939.3	22.0			G2/5000
FVH (80°-90°)	543.9	6.2			G4/750
BL (0°-30°)	171.6	1.9	B1/500		
BM (30°-60°)	1392.5	15.8	B2/2500		
BH (60°-80°)	1939.3	22.0	B3/2500		G2/5000
BVH (80°-90°)	543.9	6.2			G4/750
UL (90°-100°)	437.8	5.0		U3/500	
UH (100°-180°)	369.4	4.2		U3/500	

BUG Rating: B3-U3-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1
2.5°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	208.1	208.1	208.1
5°	216.1	217.2	217.2	217.2	217.2	217.2	217.2	216.1	216.1	216.1	216.1
7.5°	230.4	230.4	230.4	230.4	230.4	229.3	229.3	229.3	228.3	228.3	227.3
10°	252.6	252.6	252.6	251.5	250.5	249.5	249.5	248.5	247.5	247.5	246.5
12.5°	281.8	281.8	281.8	276.8	275.8	273.7	273.7	273.7	274.8	274.8	275.8
15°	317.2	317.2	317.2	311.2	307.1	302.1	304.0	305.0	307.1	307.1	308.1
17.5°	357.6	357.6	355.6	349.5	343.5	340.4	338.4	341.5	343.5	345.5	345.5
20°	402.0	402.0	399.1	391.0	384.9	382.9	380.8	380.8	385.9	387.9	385.9
22.5°	452.6	450.5	448.6	438.4	432.4	427.3	427.3	426.3	432.4	436.4	435.4
25°	510.1	508.1	502.1	490.9	483.9	477.8	476.8	476.8	486.9	493.0	491.9
27.5°	572.8	569.8	561.7	549.5	538.5	530.4	531.3	535.4	544.5	555.6	555.6
30°	641.5	639.4	626.4	614.2	596.0	585.9	587.9	599.0	611.2	623.3	624.3
32.5°	717.3	713.2	698.1	681.9	659.7	646.5	650.6	663.7	681.9	700.1	701.1
35°	801.1	797.1	778.9	756.7	728.3	711.2	717.3	737.4	761.7	782.9	783.9
37.5°	892.0	886.0	863.7	840.5	802.1	781.9	792.0	818.3	846.6	870.8	873.8
40°	985.0	985.0	960.8	929.4	882.9	858.7	869.8	905.1	941.5	963.7	968.8
42.5°	1089.0	1090.1	1062.7	1025.4	970.8	942.5	955.6	997.1	1041.6	1065.8	1070.8
45°	1198.1	1201.1	1180.9	1128.4	1065.8	1031.4	1046.6	1099.1	1148.6	1173.8	1177.9
47.5°	1315.3	1319.3	1300.2	1239.5	1167.8	1130.5	1146.6	1206.2	1263.8	1288.0	1292.1
50°	1439.5	1442.6	1419.3	1359.7	1278.9	1233.5	1253.6	1320.3	1380.0	1404.2	1410.2
52.5°	1567.9	1570.8	1548.6	1489.0	1395.1	1344.6	1368.8	1438.6	1505.2	1526.4	1527.5
55°	1697.2	1701.2	1682.0	1617.4	1516.3	1458.7	1486.0	1559.8	1631.5	1651.7	1657.8
57.5°	1824.4	1828.4	1820.3	1747.6	1639.6	1573.9	1605.2	1686.0	1756.7	1772.9	1773.9
60°	1943.6	1950.7	1944.6	1872.9	1755.7	1684.0	1717.3	1802.2	1872.9	1886.0	1888.1
62.5°	2048.7	2052.8	2055.7	1991.1	1858.8	1781.0	1818.4	1906.3	1974.9	1983.0	1982.1
65°	2120.4	2128.5	2138.6	2076.0	1942.6	1858.8	1897.2	1983.0	2046.7	2052.8	2048.7
67.5°	2147.7	2158.8	2181.0	2125.5	1994.1	1906.3	1943.6	2023.4	2078.0	2081.0	2073.9
68°	2147.7	2157.8	2184.1	2129.5	1999.2	1911.3	1947.7	2026.5	2079.0	2079.0	2072.9
70°	2116.4	2130.5	2164.9	2123.4	2000.2	1915.4	1946.7	2014.4	2058.8	2050.7	2041.6
72.5°	2017.4	2033.5	2080.0	2054.8	1953.7	1877.9	1900.2	1949.7	1969.9	1953.7	1944.6
75°	1845.6	1862.8	1926.4	1922.4	1850.7	1788.0	1801.2	1823.4	1823.4	1793.1	1777.0
77.5°	1629.5	1645.6	1708.2	1733.5	1699.1	1652.7	1652.7	1647.7	1622.4	1571.9	1557.7
80°	1372.9	1387.0	1453.7	1507.2	1501.2	1474.9	1462.8	1430.5	1386.0	1330.4	1310.2
82.5°	1116.2	1131.4	1196.0	1250.7	1286.0	1275.9	1254.6	1204.1	1138.5	1076.9	1064.8
85°	885.0	890.0	957.7	1027.3	1067.8	1071.8	1049.6	985.0	917.3	856.6	842.5
87.5°	690.0	697.0	752.6	823.3	872.8	876.9	854.7	789.0	723.3	668.8	656.6
90°	530.4	541.4	585.9	649.6	697.0	707.2	685.0	626.4	564.7	515.2	505.1
92.5°	409.2	416.2	455.6	510.1	553.6	566.7	546.6	495.0	441.5	398.0	393.9
95°	321.2	323.3	354.6	401.1	437.4	454.6	435.4	392.0	345.5	310.2	306.1
97.5°	248.5	252.6	277.8	317.2	350.6	361.6	347.5	311.2	272.7	239.4	236.4
100°	192.9	196.0	218.2	253.6	280.8	290.9	279.8	249.5	214.2	187.9	187.9
102.5°	153.5	154.6	172.8	202.0	224.2	233.3	225.3	200.0	169.7	148.5	149.6
105°	123.3	123.3	137.4	163.7	184.8	190.9	183.8	161.6	135.3	119.2	119.2
107.5°	99.0	100.0	111.1	133.4	152.5	158.6	152.5	132.4	109.1	97.0	97.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	81.8	81.8	89.9	109.1	126.2	132.4	126.2	108.1	88.9	78.8	78.8
112.5°	67.7	67.7	73.8	89.9	105.1	111.1	105.1	88.9	72.7	65.7	65.7
115°	57.6	57.6	61.6	74.8	87.9	93.0	87.9	74.8	60.7	56.6	56.6
117.5°	49.5	49.5	52.6	62.6	73.8	78.8	73.8	61.6	51.6	48.5	48.5
120°	43.5	43.5	44.5	51.6	61.6	65.7	61.6	51.6	43.5	41.4	41.4
122.5°	37.3	37.3	37.3	43.5	51.6	54.5	50.5	43.5	37.3	36.4	36.4
125°	33.3	32.3	33.3	36.4	42.5	46.4	42.5	36.4	32.3	32.3	32.3
127.5°	29.3	29.3	28.3	30.3	35.4	37.3	35.4	30.3	28.3	28.3	28.3
130°	25.3	25.3	25.3	26.3	28.3	30.3	29.3	26.3	25.3	25.3	25.3
132.5°	22.2	22.2	21.2	22.2	23.2	24.2	23.2	21.2	21.2	22.2	22.2
135°	19.2	19.2	19.2	18.2	18.2	19.2	18.2	18.2	19.2	19.2	19.2
137.5°	17.2	17.2	16.2	15.1	14.1	14.1	14.1	15.1	16.2	16.2	17.2
140°	14.1	14.1	13.1	12.2	11.2	11.2	11.2	12.2	13.1	14.1	14.1
142.5°	12.2	12.2	11.2	9.1	8.1	7.1	8.1	9.1	10.1	11.2	11.2
145°	9.1	9.1	8.1	7.1	6.0	5.0	5.0	7.1	8.1	9.1	9.1
147.5°	7.1	7.1	6.0	5.0	4.1	3.1	3.1	5.0	6.0	7.1	7.1
150°	5.0	5.0	4.1	3.1	2.0	2.0	2.0	3.1	4.1	4.1	5.0
152.5°	3.1	3.1	2.0	2.0	1.0	1.0	1.0	2.0	2.0	3.1	3.1
155°	1.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	2.0	2.0
157.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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)