

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: P266200

Luminaire Tested: **LXF.LXT-AF24-90-D-U-5WQ-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266200
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-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 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: 7502.4 lumens
Efficiency: N/A
Efficacy: 79.8 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): 94
Input Voltage (V): NR
Input Current (A_{in}): 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

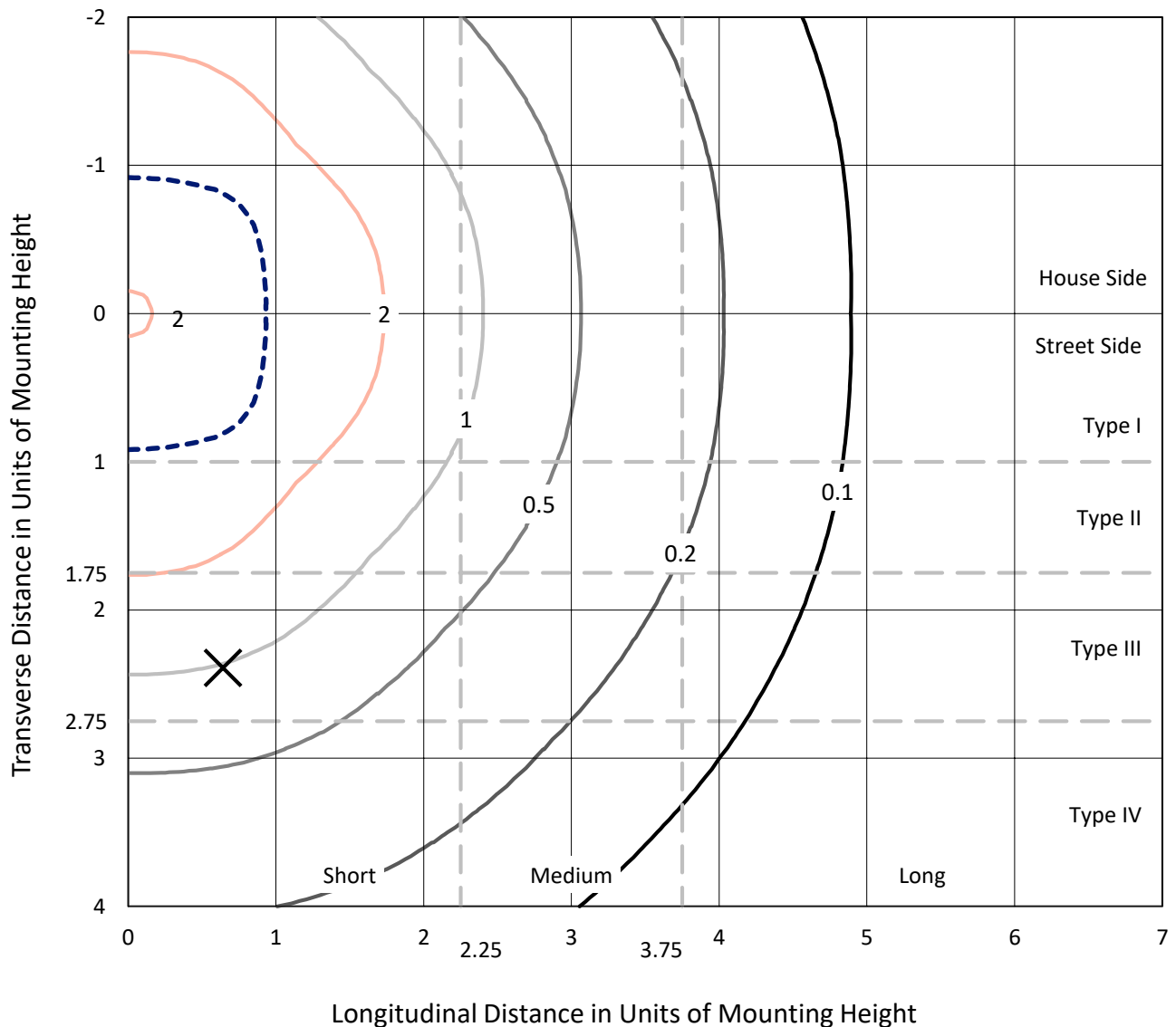


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

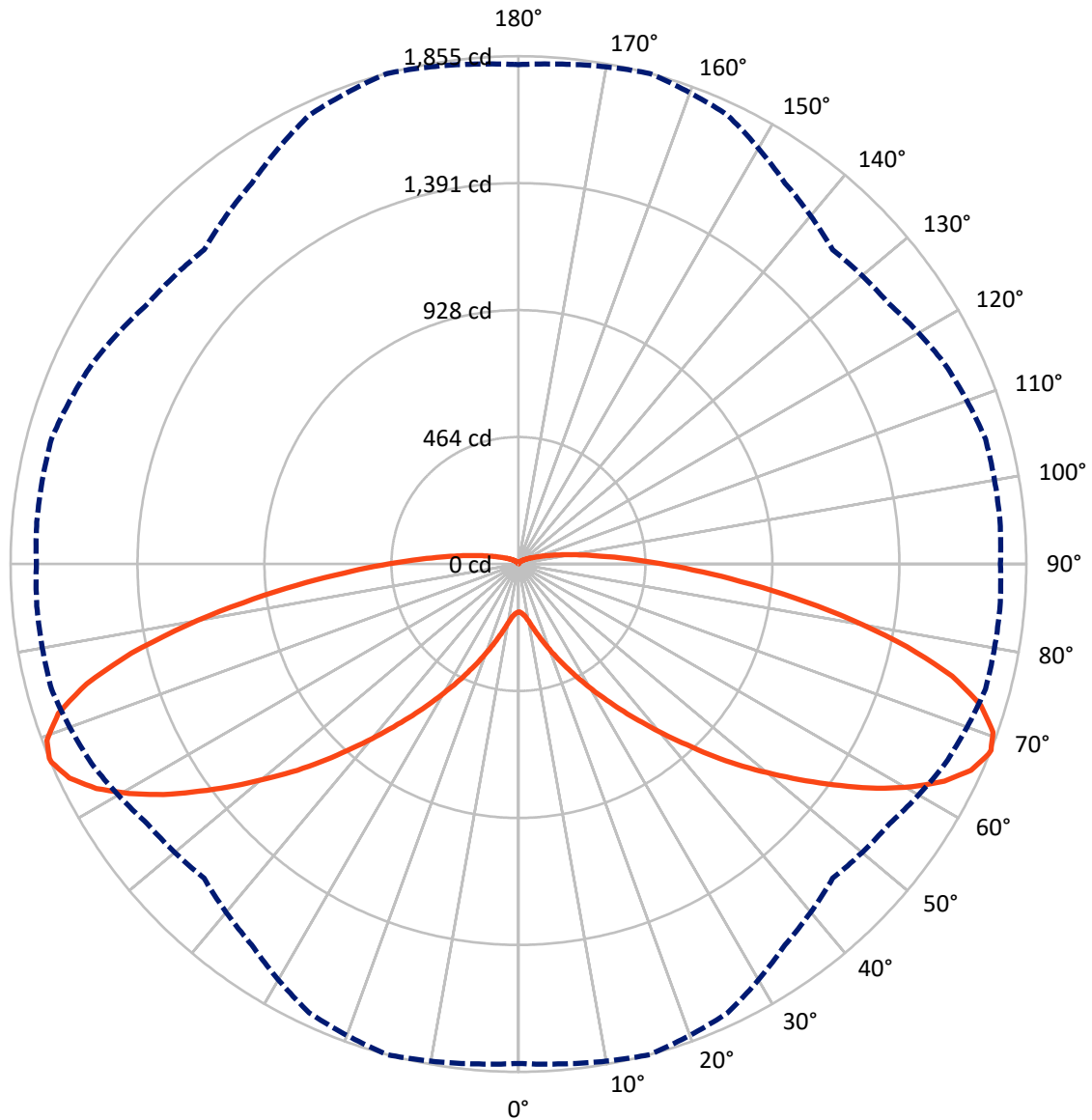


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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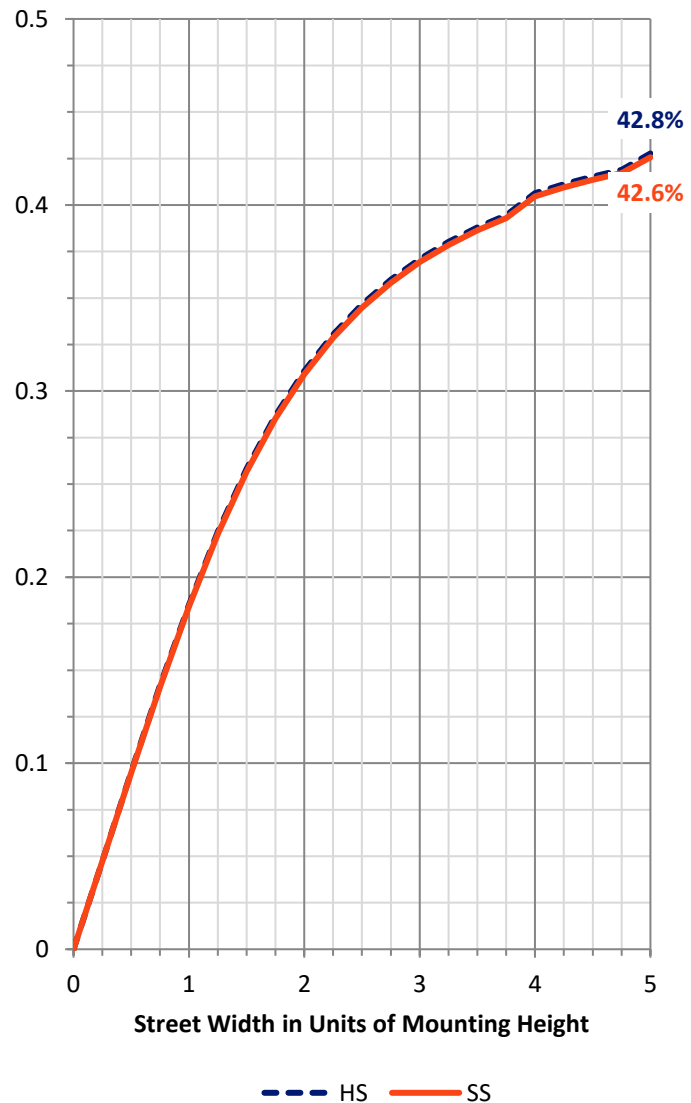
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3437.5	313.7	3751.2
	% Fixture	45.8	4.2	50.0
Street Side	Lumens	3437.5	313.7	3751.2
	% Fixture	45.8	4.2	50.0
Total	Lumens	6875.1	627.4	7502.4
	% Fixture	91.6	8.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	0.2
10°-20°	77.0	1.0
20°-30°	196.1	2.6
30°-40°	407.3	5.4
40°-50°	743.5	9.9
50°-60°	1214.6	16.2
60°-70°	1675.5	22.3
70°-80°	1618.8	21.6
80°-90°	923.8	12.3
90°-100°	371.9	5.0
100°-110°	146.0	1.9
110°-120°	63.3	0.8
120°-130°	29.0	0.4
130°-140°	12.7	0.2
140°-150°	4.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6875.1	91.6
0°-180°	7502.4	100.0



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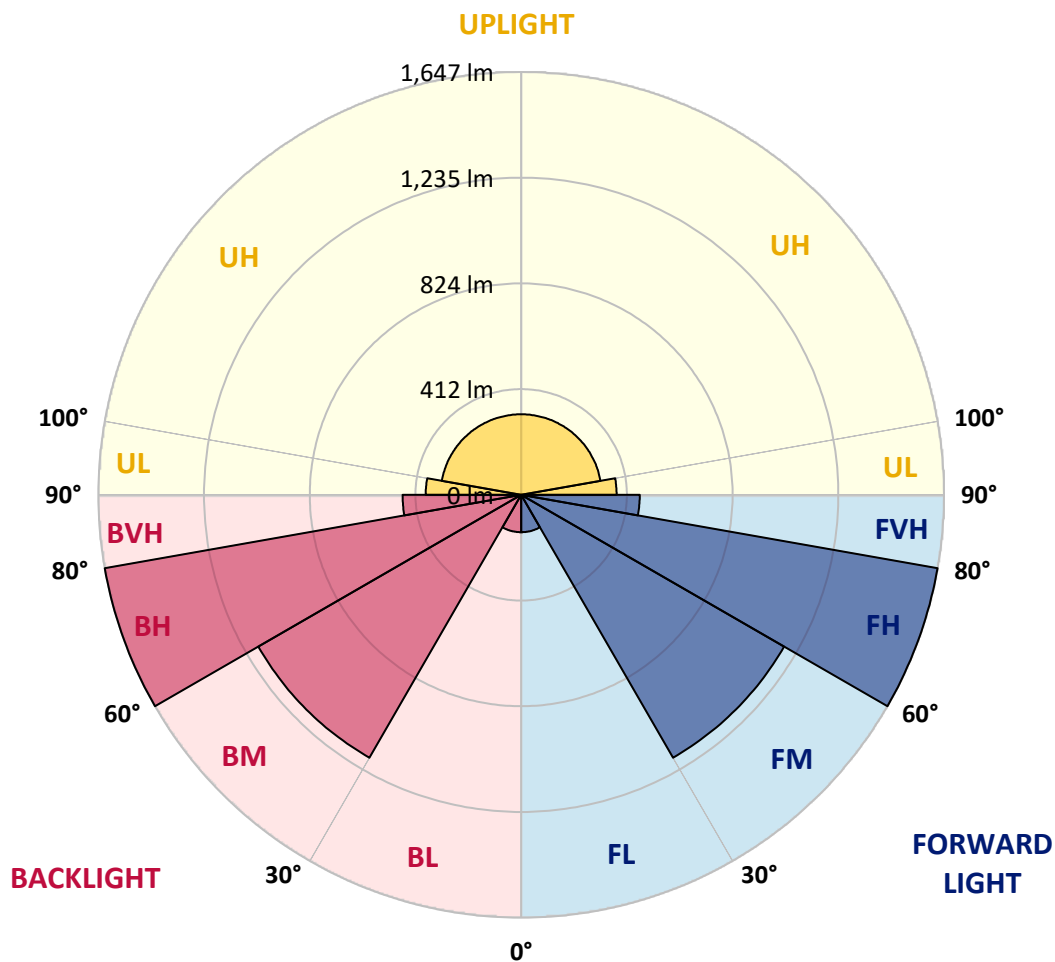
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.7	1.9			
FM (30°-60°)	1182.7	15.8			
FH (60°-80°)	1647.1	22.0			G1/1800
FVH (80°-90°)	461.9	6.2			G3/500
BL (0°-30°)	145.7	1.9	B1/500		
BM (30°-60°)	1182.7	15.8	B2/2500		
BH (60°-80°)	1647.1	22.0	B3/2500		G1/1800
BVH (80°-90°)	461.9	6.2			G3/500
UL (90°-100°)	371.9	5.0		U3/500	
UH (100°-180°)	313.7	4.2		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°	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
2.5°	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	176.7	176.7	176.7
5°	183.7	184.5	184.5	184.5	184.5	184.5	184.5	183.7	183.7	183.7	183.7
7.5°	195.7	195.7	195.7	195.7	195.7	194.8	194.8	194.8	193.9	193.9	193.0
10°	214.5	214.5	214.5	213.6	212.8	211.9	211.9	211.1	210.3	210.3	209.3
12.5°	239.4	239.4	239.4	235.0	234.3	232.5	232.5	232.5	233.4	233.4	234.3
15°	269.4	269.4	269.4	264.3	260.9	256.6	258.3	259.2	260.9	260.9	261.6
17.5°	303.7	303.7	302.0	296.9	291.7	289.2	287.5	290.1	291.7	293.4	293.4
20°	341.4	341.4	338.9	332.1	327.0	325.1	323.5	323.5	327.7	329.5	327.7
22.5°	384.4	382.7	380.9	372.3	367.2	362.9	362.9	362.0	367.2	370.7	369.8
25°	433.3	431.5	426.4	417.1	411.0	405.9	405.0	405.0	413.6	418.7	417.8
27.5°	486.5	483.9	477.1	466.8	457.3	450.5	451.3	454.7	462.4	471.9	471.9
30°	544.8	543.1	531.9	521.6	506.3	497.7	499.4	508.8	519.1	529.5	530.3
32.5°	609.2	605.7	592.9	579.1	560.4	549.1	552.5	563.7	579.1	594.6	595.4
35°	680.3	677.0	661.5	642.6	618.7	604.0	609.2	626.4	647.0	664.9	665.9
37.5°	757.6	752.5	733.6	713.9	681.3	664.0	672.7	695.0	719.1	739.7	742.2
40°	836.5	836.5	816.0	789.4	749.9	729.3	738.8	768.8	799.8	818.5	822.8
42.5°	925.0	925.9	902.6	870.8	824.6	800.5	811.7	846.8	884.7	905.2	909.5
45°	1017.6	1020.1	1003.0	958.4	905.2	876.0	889.0	933.5	975.6	996.9	1000.4
47.5°	1117.1	1120.5	1104.2	1052.8	991.9	960.1	973.9	1024.4	1073.4	1094.0	1097.4
50°	1222.7	1225.3	1205.5	1155.0	1086.2	1047.7	1064.9	1121.4	1172.1	1192.6	1197.8
52.5°	1331.6	1334.3	1315.4	1264.8	1185.0	1142.0	1162.5	1221.9	1278.5	1296.4	1297.3
55°	1441.5	1445.0	1428.7	1373.7	1287.9	1239.0	1262.2	1324.8	1385.6	1402.9	1408.1
57.5°	1549.5	1553.0	1546.2	1484.4	1392.6	1336.8	1363.4	1432.0	1492.1	1505.7	1506.6
60°	1650.8	1656.8	1651.7	1590.8	1491.2	1430.3	1458.6	1530.7	1590.8	1601.9	1603.7
62.5°	1740.0	1743.5	1746.0	1691.1	1578.7	1512.7	1544.5	1619.0	1677.5	1684.3	1683.5
65°	1801.0	1807.7	1816.5	1763.3	1649.9	1578.7	1611.4	1684.3	1738.3	1743.5	1740.0
67.5°	1824.2	1833.6	1852.5	1805.2	1693.8	1619.0	1650.8	1718.5	1764.9	1767.5	1761.4
68°	1824.2	1832.7	1855.0	1808.6	1698.1	1623.3	1654.3	1721.2	1765.8	1765.8	1760.7
70°	1797.6	1809.5	1838.7	1803.5	1698.9	1626.8	1653.4	1710.9	1748.6	1741.8	1734.1
72.5°	1713.4	1727.3	1766.6	1745.1	1659.3	1595.0	1614.0	1655.9	1673.2	1659.3	1651.7
75°	1567.6	1582.2	1636.3	1632.8	1571.9	1518.7	1529.9	1548.7	1548.7	1522.9	1509.2
77.5°	1384.0	1397.8	1450.9	1472.3	1443.1	1403.7	1403.7	1399.4	1378.0	1335.2	1323.1
80°	1166.0	1178.0	1234.7	1280.2	1275.1	1252.6	1242.4	1215.0	1177.1	1130.0	1112.8
82.5°	948.2	960.9	1016.0	1062.2	1092.2	1083.6	1065.7	1022.8	966.9	914.7	904.4
85°	751.6	756.0	813.3	872.7	906.8	910.3	891.5	836.5	779.1	727.5	715.6
87.5°	586.1	592.1	639.2	699.3	741.3	744.8	725.9	670.1	614.4	568.0	557.7
90°	450.5	459.9	497.7	551.6	592.1	600.5	581.7	531.9	479.6	437.6	429.0
92.5°	347.6	353.6	387.0	433.3	470.3	481.3	464.2	420.4	375.0	338.0	334.6
95°	272.8	274.5	301.1	340.6	371.4	386.1	369.8	332.9	293.4	263.5	260.0
97.5°	211.1	214.5	236.0	269.4	297.7	307.2	295.2	264.3	231.7	203.3	200.9
100°	163.9	166.5	185.3	215.4	238.5	247.2	237.7	211.9	181.8	159.5	159.5
102.5°	130.4	131.3	146.8	171.5	190.5	198.2	191.2	169.9	144.2	126.1	127.0
105°	104.7	104.7	116.7	139.0	157.1	162.1	156.1	137.4	115.0	101.2	101.2
107.5°	84.1	84.9	94.4	113.2	129.5	134.7	129.5	112.4	92.6	82.4	82.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	69.4	69.4	76.4	92.6	107.3	112.4	107.3	91.7	75.5	67.0	67.0
112.5°	57.5	57.5	62.6	76.4	89.2	94.4	89.2	75.5	61.8	55.8	55.8
115°	48.9	48.9	52.3	63.5	74.6	79.0	74.6	63.5	51.6	48.1	48.1
117.5°	42.0	42.0	44.6	53.2	62.6	67.0	62.6	52.3	43.7	41.2	41.2
120°	36.9	36.9	37.8	43.7	52.3	55.8	52.3	43.7	36.9	35.2	35.2
122.5°	31.7	31.7	31.7	36.9	43.7	46.4	42.8	36.9	31.7	30.9	30.9
125°	28.2	27.5	28.2	30.9	36.0	39.4	36.0	30.9	27.5	27.5	27.5
127.5°	25.0	25.0	24.1	25.7	30.1	31.7	30.1	25.7	24.1	24.1	24.1
130°	21.5	21.5	21.5	22.3	24.1	25.7	25.0	22.3	21.5	21.5	21.5
132.5°	18.9	18.9	18.1	18.9	19.8	20.7	19.8	18.1	18.1	18.9	18.9
135°	16.3	16.3	16.3	15.5	15.5	16.3	15.5	15.5	16.3	16.3	16.3
137.5°	14.6	14.6	13.7	12.8	11.9	11.9	11.9	12.8	13.7	13.7	14.6
140°	11.9	11.9	11.1	10.3	9.4	9.4	9.4	10.3	11.1	11.9	11.9
142.5°	10.3	10.3	9.4	7.7	6.8	6.0	6.8	7.7	8.5	9.4	9.4
145°	7.7	7.7	6.8	6.0	5.1	4.3	4.3	6.0	6.8	7.7	7.7
147.5°	6.0	6.0	5.1	4.3	3.5	2.5	2.5	4.3	5.1	6.0	6.0
150°	4.3	4.3	3.5	2.5	1.6	1.6	1.6	2.5	3.5	3.5	4.3
152.5°	2.5	2.5	1.6	1.6	0.9	0.9	0.9	1.6	1.6	2.5	2.5
155°	0.9	1.6	0.9	0.9	0.9	0.0	0.9	0.9	0.9	1.6	1.6
157.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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)