

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: P266143

Luminaire Tested: **LXF.LXT-AF24-70-D-U-5WQ-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266143
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-AF24-70-D-U-5WQ-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 6492.5 lumens
Efficiency: N/A
Efficacy: 87.7 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): 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

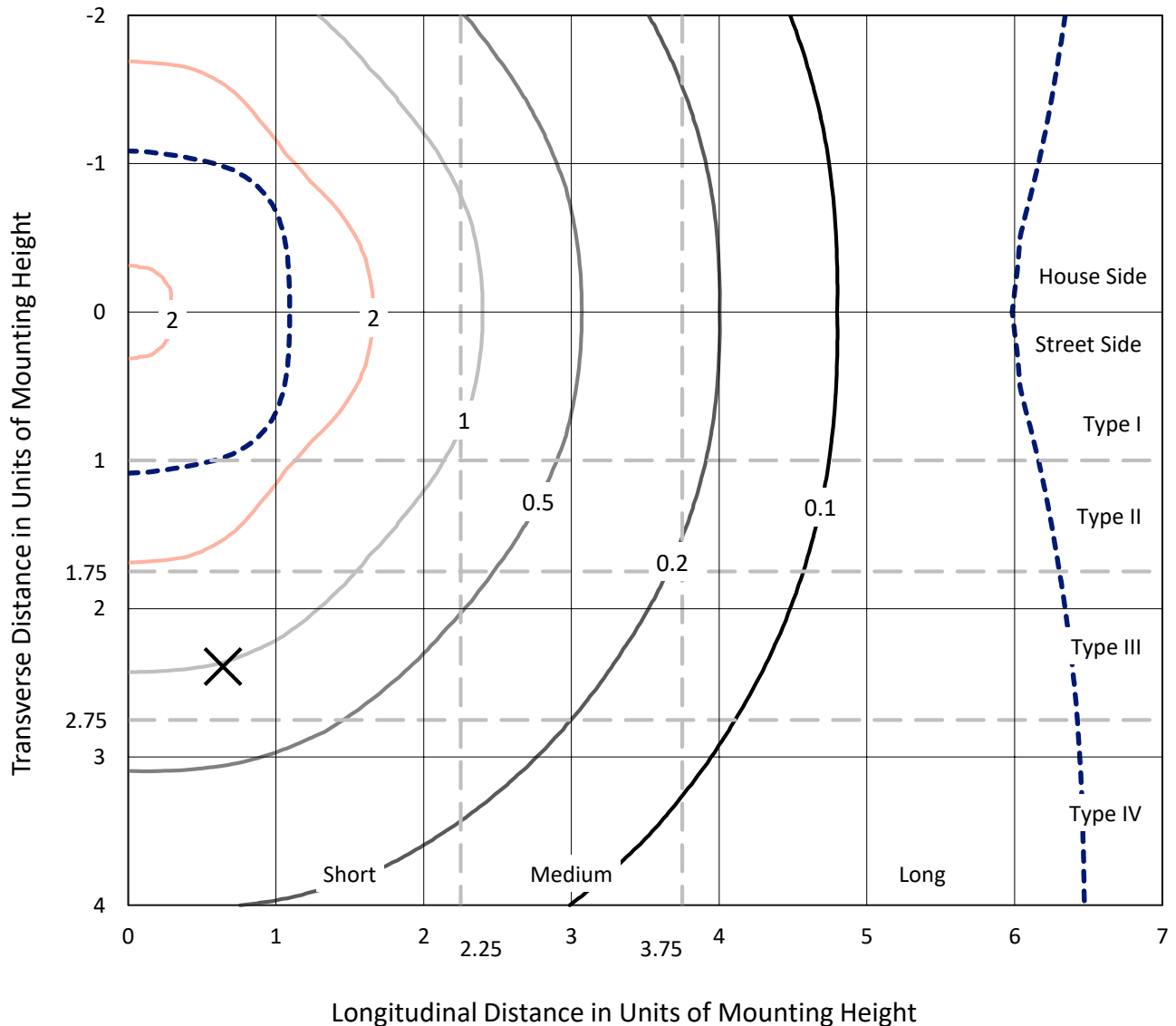


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

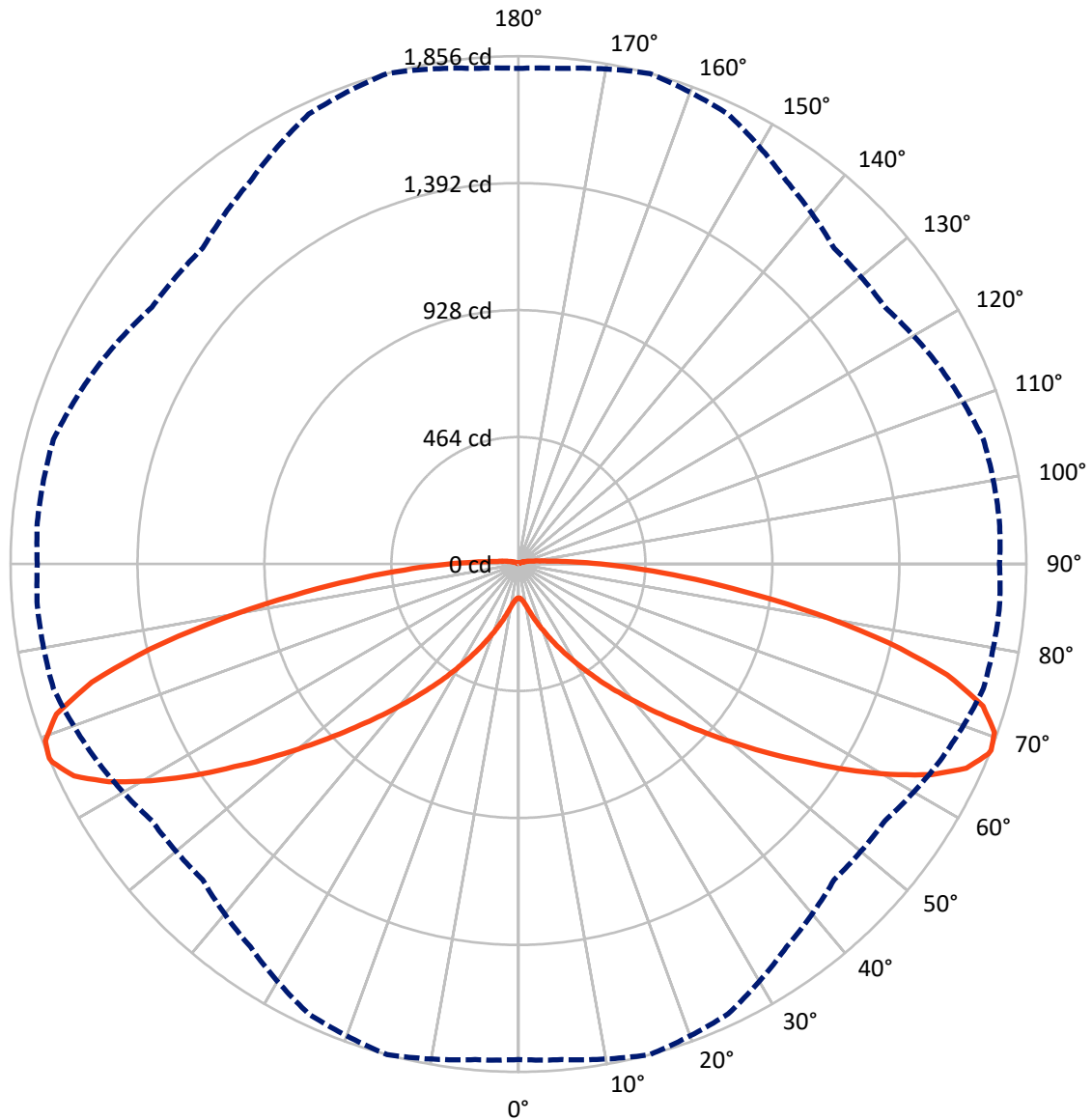


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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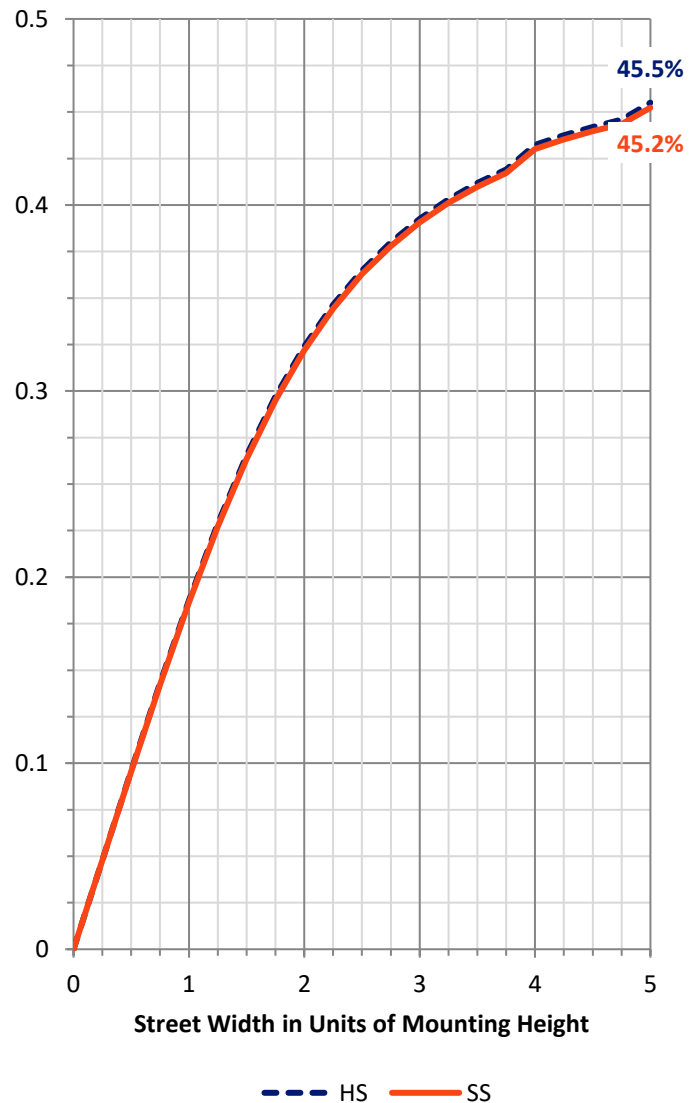
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3116.3	129.9	3246.3
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3116.3	129.9	3246.3
	% Fixture	48.0	2.0	50.0
Total	Lumens	6232.7	259.9	6492.5
	% Fixture	96.0	4.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.2
10°-20°	59.3	0.9
20°-30°	156.5	2.4
30°-40°	328.4	5.1
40°-50°	616.5	9.5
50°-60°	1089.3	16.8
60°-70°	1643.0	25.3
70°-80°	1592.4	24.5
80°-90°	734.0	11.3
90°-100°	174.6	2.7
100°-110°	48.8	0.8
110°-120°	20.5	0.3
120°-130°	9.2	0.1
130°-140°	4.4	0.1
140°-150°	1.9	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6232.7	96.0
0°-180°	6492.5	100.0



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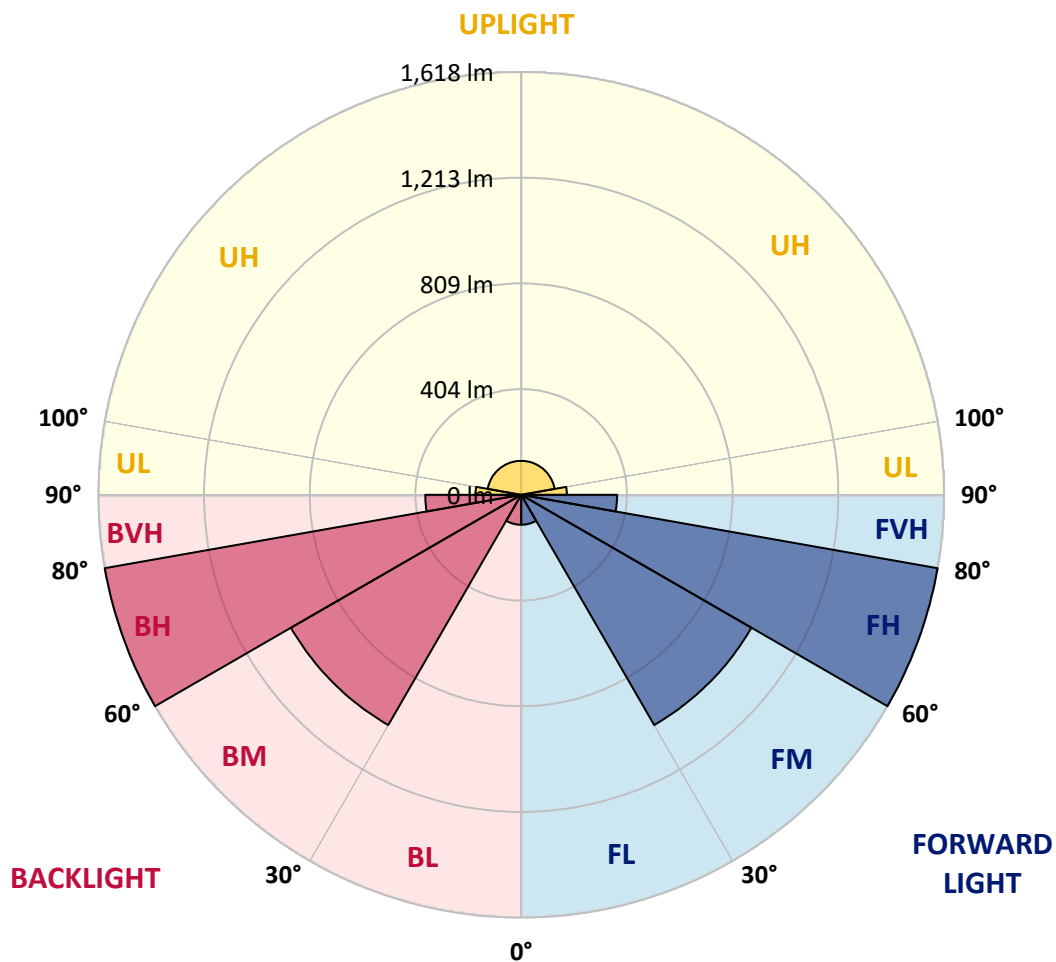
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.6	1.8			
FM (30°-60°)	1017.1	15.7			
FH (60°-80°)	1617.7	24.9			G1/1800
FVH (80°-90°)	367.0	5.7			G3/500
BL (0°-30°)	114.6	1.8	B1/500		
BM (30°-60°)	1017.1	15.7	B2/2500		
BH (60°-80°)	1617.7	24.9	B3/2500		G1/1800
BVH (80°-90°)	367.0	5.7			G3/500
UL (90°-100°)	174.6	2.7		U3/500	
UH (100°-180°)	129.9	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°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
2.5°	125.9	125.9	125.9	125.9	125.9	126.8	125.9	125.9	125.9	125.9	125.9
5°	131.1	131.1	131.1	131.8	131.8	131.8	131.8	131.8	131.8	132.5	131.8
7.5°	140.6	140.6	140.6	140.6	140.6	140.6	141.3	142.0	142.0	142.7	142.7
10°	155.0	155.0	154.4	154.4	154.4	155.0	155.0	156.6	157.3	159.4	158.7
12.5°	177.7	177.7	176.2	174.8	174.0	173.4	174.8	177.7	179.8	183.6	182.7
15°	203.1	203.1	201.7	199.6	198.7	198.0	198.7	202.4	206.2	209.8	208.9
17.5°	231.6	230.9	229.3	226.5	226.5	225.7	225.7	229.3	233.6	238.8	238.8
20°	262.8	261.3	259.3	255.6	255.6	254.8	255.6	258.5	265.0	270.8	270.8
22.5°	298.5	297.1	294.1	290.5	288.4	286.9	287.5	291.9	300.0	307.9	308.7
25°	338.7	336.3	333.5	329.0	323.3	320.3	321.9	329.0	339.3	349.5	347.4
27.5°	380.8	380.2	375.8	369.2	360.4	356.1	359.7	368.5	380.8	391.8	392.5
30°	430.3	428.1	422.4	412.1	402.7	393.9	397.6	409.2	425.9	440.4	441.2
32.5°	482.0	481.3	474.8	460.2	444.1	436.1	439.8	456.6	476.2	490.7	493.7
35°	541.8	540.3	533.1	514.1	493.7	482.7	486.4	506.7	530.8	549.0	550.5
37.5°	607.3	603.7	594.9	572.3	546.1	533.1	536.6	560.0	589.1	607.3	611.7
40°	674.9	674.3	664.0	637.8	605.7	587.6	593.4	619.7	653.2	673.5	676.5
42.5°	753.6	752.2	742.0	711.4	672.1	650.9	657.5	688.8	725.2	745.7	749.2
45°	836.6	838.1	824.3	794.5	748.6	724.6	728.9	764.5	804.6	830.0	833.0
47.5°	932.7	930.6	922.6	885.4	833.0	805.3	810.5	849.7	897.0	921.1	922.6
50°	1033.9	1031.8	1028.9	990.3	929.8	901.4	904.4	947.4	995.3	1020.1	1026.7
52.5°	1146.9	1147.6	1149.0	1106.8	1039.1	1000.4	1007.0	1055.8	1106.8	1129.3	1135.2
55°	1272.1	1272.8	1275.8	1232.7	1156.3	1113.3	1121.4	1175.3	1229.8	1252.3	1254.7
57.5°	1411.1	1407.6	1419.1	1368.2	1284.4	1234.9	1243.7	1299.8	1358.0	1379.8	1384.2
60°	1550.2	1545.2	1561.2	1510.2	1414.0	1360.2	1364.5	1430.0	1492.7	1506.5	1516.0
62.5°	1668.2	1673.3	1694.4	1642.7	1536.5	1470.9	1478.2	1544.4	1614.3	1628.1	1630.3
65°	1760.7	1768.0	1799.2	1745.3	1639.8	1561.2	1571.3	1639.8	1711.9	1718.4	1716.9
67.5°	1809.5	1816.0	1851.6	1807.2	1700.2	1623.0	1628.8	1695.1	1756.2	1762.8	1756.2
68°	1811.0	1818.2	1856.0	1813.8	1708.1	1631.7	1635.5	1700.2	1759.2	1765.0	1758.4
70°	1789.1	1806.5	1845.8	1814.5	1715.6	1644.2	1644.8	1697.3	1753.3	1749.0	1743.3
72.5°	1704.5	1719.8	1775.2	1762.0	1679.1	1617.9	1609.3	1645.5	1678.4	1665.9	1662.4
75°	1532.8	1547.3	1618.7	1633.2	1586.6	1542.2	1521.1	1532.8	1532.0	1509.4	1500.7
77.5°	1283.7	1304.1	1382.8	1436.6	1421.3	1403.2	1367.4	1350.0	1317.3	1271.3	1256.8
80°	997.6	1017.9	1103.1	1178.1	1208.7	1210.8	1178.1	1119.8	1054.3	991.6	979.3
82.5°	739.8	761.0	832.3	925.4	965.5	988.9	952.5	877.5	803.9	734.8	722.2
85°	517.0	532.2	604.4	680.0	738.3	763.7	723.8	659.6	585.4	525.7	514.1
87.5°	352.4	361.2	417.9	493.7	548.2	573.1	538.9	476.2	407.8	353.2	340.7
90°	223.6	229.3	271.6	335.0	390.3	412.1	385.3	330.5	268.0	223.6	215.6
92.5°	136.9	139.7	171.0	222.2	268.8	293.4	269.4	220.7	169.7	137.6	133.3
95°	89.7	91.7	110.0	142.7	181.3	199.6	183.6	147.1	112.8	91.7	88.8
97.5°	66.3	67.7	78.6	96.1	119.5	133.3	122.3	100.5	80.8	67.7	65.5
100°	51.7	52.5	59.6	70.6	83.7	91.7	85.9	73.5	61.2	51.7	50.9
102.5°	41.5	41.5	48.1	56.1	64.0	68.5	64.8	58.3	48.1	40.8	40.1
105°	32.8	33.4	38.5	45.9	51.7	54.5	52.5	47.3	38.5	32.0	31.4
107.5°	26.2	26.2	31.4	37.9	43.7	45.9	43.7	39.3	30.6	25.5	24.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	20.4	21.1	24.8	31.4	36.4	38.5	36.4	32.0	24.8	20.4	19.7
112.5°	16.8	16.8	19.7	25.5	30.6	32.0	30.6	25.5	19.7	16.0	16.0
115°	13.8	13.8	16.0	21.1	25.5	26.9	25.5	21.1	16.0	13.1	13.1
117.5°	11.7	12.3	13.8	17.4	21.1	21.9	21.1	17.4	13.1	11.7	10.9
120°	10.2	10.9	11.7	14.6	17.4	18.1	16.8	13.8	10.9	10.2	9.4
122.5°	9.4	9.4	10.2	11.7	14.6	15.4	13.8	11.7	9.4	8.8	8.8
125°	8.8	8.8	8.8	10.2	11.7	12.3	11.7	9.4	8.1	8.1	8.1
127.5°	8.1	8.1	8.1	8.8	10.2	10.2	9.4	8.1	7.2	7.2	7.2
130°	7.2	7.2	7.2	7.2	8.1	8.8	8.1	7.2	6.6	6.6	6.6
132.5°	6.6	6.6	6.6	6.6	6.6	7.2	6.6	5.7	5.7	5.7	5.7
135°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.1	5.1	5.1	5.1
137.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.4	4.4	4.4	5.1	5.1
140°	4.4	4.4	4.4	4.4	3.7	3.7	3.7	3.7	4.4	4.4	4.4
142.5°	4.4	4.4	3.7	3.7	3.0	3.0	3.0	3.0	3.7	3.7	3.7
145°	3.7	3.7	3.0	3.0	3.0	2.2	2.2	3.0	3.0	3.0	3.0
147.5°	3.0	3.0	3.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
150°	2.2	2.2	2.2	1.4	1.4	1.4	1.4	1.4	1.4	2.2	2.2
152.5°	1.4	1.4	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	1.4
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	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)