

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: P254259

Luminaire Tested: **LXF.LXT-AF24-50-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254259
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-AF24-50-D-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5853.3 lumens
Efficiency: N/A
Efficacy: 108.4 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

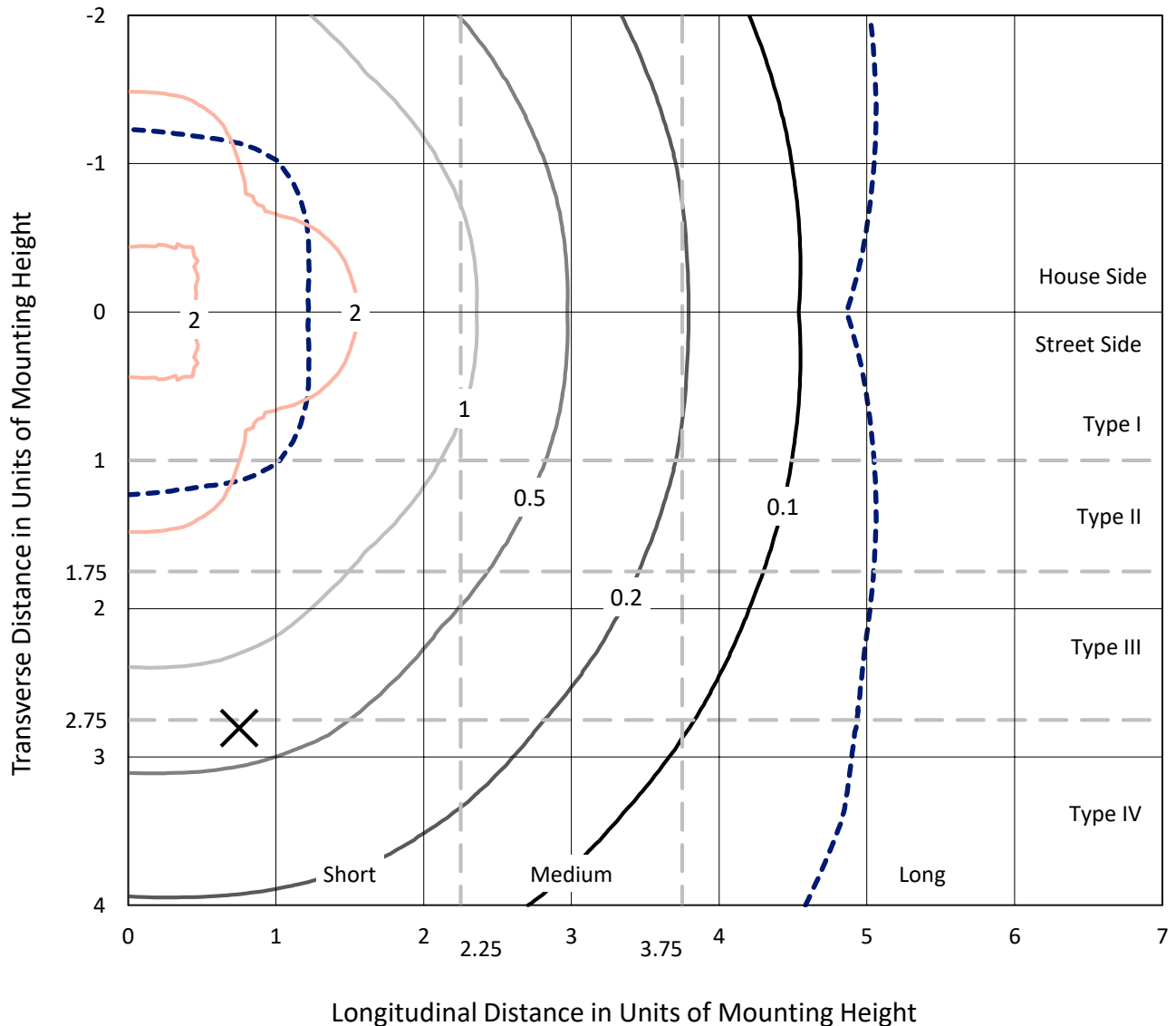
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

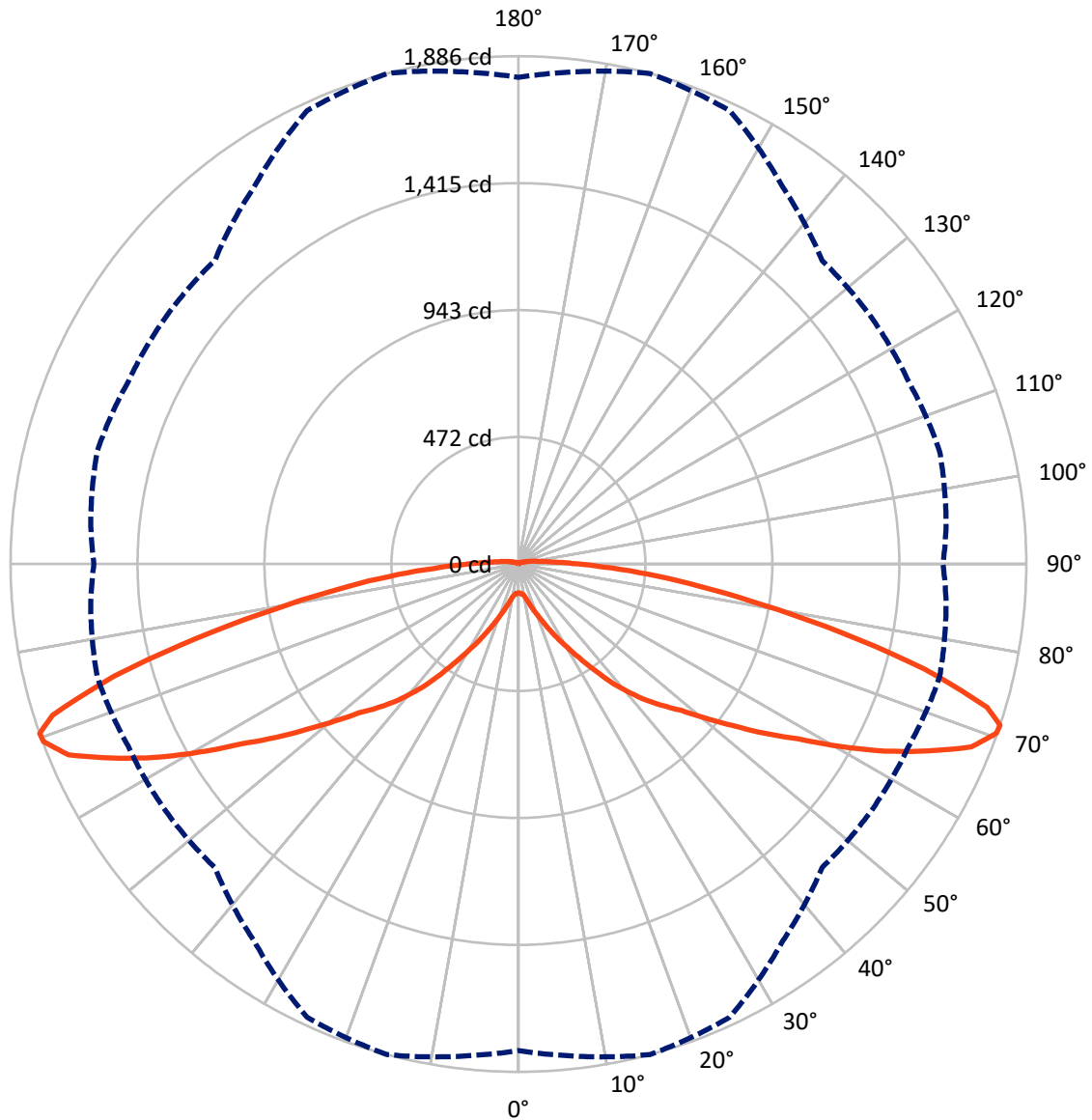
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P254259
CATALOG NUMBER: LXF.LXT-AF24-50-D-U-5WQ-A

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: LXF.LXT-AF24-50-D-U-5WQ-A

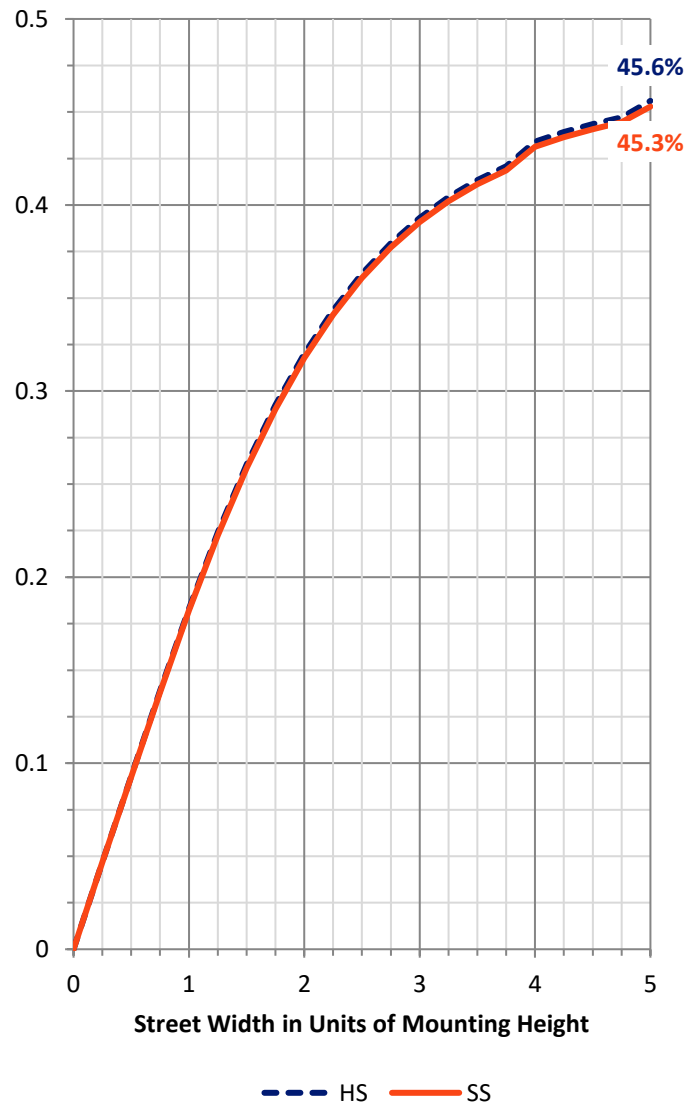
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.5	122.1	2926.6
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	2804.5	122.1	2926.6
	% Fixture	47.9	2.1	50.0
Total	Lumens	5609.1	244.2	5853.3
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.2
10°-20°	43.4	0.7
20°-30°	122.8	2.1
30°-40°	286.2	4.9
40°-50°	534.2	9.1
50°-60°	953.2	16.3
60°-70°	1562.7	26.7
70°-80°	1461.8	25.0
80°-90°	634.0	10.8
90°-100°	160.1	2.7
100°-110°	46.7	0.8
110°-120°	19.2	0.3
120°-130°	10.2	0.2
130°-140°	5.6	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5609.1	95.8
0°-180°	5853.3	100.0



REPORT NUMBER: P254259

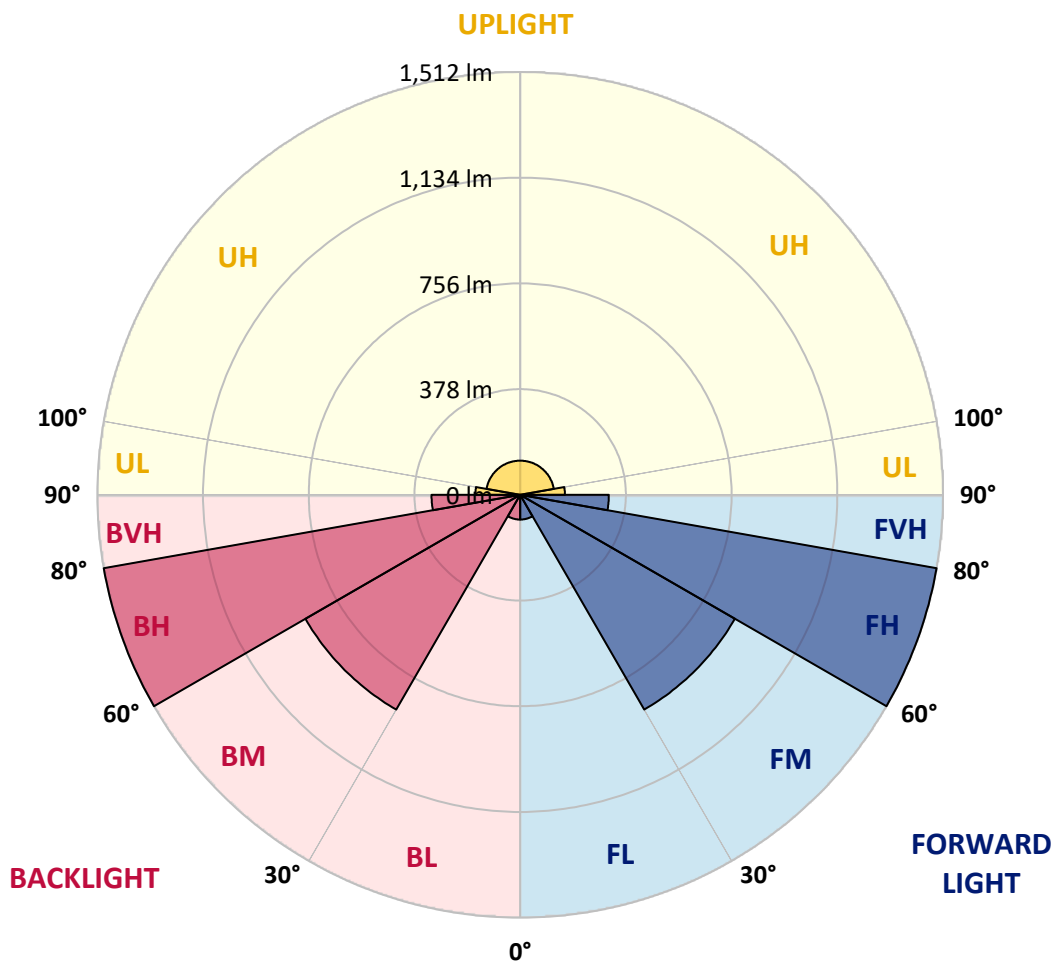
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.5	1.5			
FM (30°-60°)	886.8	15.2			
FH (60°-80°)	1512.2	25.8			G1/1800
FVH (80°-90°)	317.0	5.4			G3/500
BL (0°-30°)	88.5	1.5	B0/110		
BM (30°-60°)	886.8	15.2	B1/1000		
BH (60°-80°)	1512.2	25.8	B3/2500		G1/1800
BVH (80°-90°)	317.0	5.4			G3/500
UL (90°-100°)	160.1	2.7		U3/500	
UH (100°-180°)	122.1	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°	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
2.5°	108.5	108.5	108.5	109.1	109.1	109.1	108.5	108.5	107.8	107.8	107.8
5°	110.5	110.5	110.5	110.5	110.5	110.5	109.9	109.9	109.1	109.1	109.1
7.5°	113.8	113.8	113.8	113.8	113.8	113.1	112.4	111.8	111.8	111.8	111.8
10°	121.1	121.1	120.4	119.8	119.1	117.7	117.7	117.1	117.1	117.1	117.7
12.5°	136.3	136.3	134.3	131.0	127.1	125.7	125.0	126.3	128.4	129.0	130.3
15°	156.1	156.1	153.4	148.2	142.2	137.0	138.3	142.2	145.6	147.5	148.8
17.5°	180.7	180.7	176.7	169.4	160.8	157.4	156.8	162.1	167.4	171.3	174.0
20°	207.8	207.8	202.4	192.5	183.9	182.0	181.3	185.3	193.1	199.2	201.8
22.5°	240.8	241.5	233.5	220.3	211.8	207.8	207.0	212.4	224.9	233.5	236.8
25°	281.8	281.8	273.2	254.7	242.8	236.2	237.5	247.5	265.3	277.2	279.2
27.5°	327.4	326.1	314.9	295.0	277.8	267.9	271.3	286.4	308.3	326.1	328.8
30°	378.4	377.1	361.2	340.0	315.6	303.7	308.9	330.8	360.6	385.7	389.0
32.5°	437.3	436.0	416.1	389.0	356.6	340.7	350.7	381.8	418.1	450.5	455.2
35°	508.1	506.8	480.3	442.6	402.9	383.7	396.9	434.7	477.6	516.7	522.6
37.5°	582.2	582.2	554.4	506.2	453.9	430.0	444.6	487.5	538.5	576.9	583.5
40°	649.7	649.7	621.9	574.9	511.4	479.7	494.9	539.2	584.8	619.2	625.8
42.5°	711.9	713.8	688.0	639.8	571.6	535.2	544.5	583.5	630.4	668.9	675.5
45°	761.5	765.5	749.6	703.9	635.8	592.8	596.1	640.4	696.0	736.3	744.3
47.5°	821.6	822.4	811.1	768.1	703.9	656.9	659.6	711.9	772.7	814.4	818.4
50°	907.1	909.0	899.1	850.2	782.7	729.8	743.0	797.2	872.6	917.0	918.3
52.5°	1001.7	1003.6	996.4	951.3	873.9	823.0	843.5	906.3	981.1	1018.1	1016.8
55°	1100.9	1105.5	1109.5	1067.8	985.7	933.4	961.3	1026.7	1096.2	1132.6	1128.6
57.5°	1211.4	1214.7	1225.3	1188.2	1114.8	1063.9	1098.9	1164.4	1235.2	1270.2	1264.3
60°	1362.9	1368.2	1376.8	1325.8	1249.7	1209.3	1247.7	1317.3	1389.3	1410.4	1402.6
62.5°	1500.5	1506.4	1530.2	1491.9	1392.6	1350.3	1401.2	1468.0	1528.3	1538.2	1524.9
65°	1634.8	1641.4	1673.8	1640.7	1542.1	1481.9	1535.6	1590.5	1646.6	1653.9	1640.7
67.5°	1757.1	1775.0	1814.1	1768.4	1657.3	1588.4	1618.9	1663.2	1712.8	1704.2	1687.7
70°	1820.0	1843.2	1882.8	1851.1	1713.4	1609.6	1626.2	1639.4	1663.2	1651.3	1636.7
71°	1807.5	1831.3	1886.1	1857.1	1710.2	1594.4	1599.1	1599.7	1619.5	1594.4	1576.6
72.5°	1717.4	1742.6	1820.0	1824.0	1677.1	1550.8	1530.2	1513.7	1503.1	1458.1	1444.2
75°	1437.7	1470.7	1557.3	1607.0	1524.9	1401.9	1366.2	1310.6	1280.1	1228.6	1225.3
77.5°	1118.7	1140.6	1225.3	1300.7	1278.2	1198.8	1158.4	1104.2	1072.5	1032.1	1008.2
80°	833.6	840.9	917.6	1003.0	1028.8	997.0	967.2	918.3	880.6	841.5	821.0
82.5°	592.8	606.7	676.2	768.7	829.6	830.9	809.8	754.8	712.5	671.5	655.6
85°	400.9	414.8	482.3	580.2	659.0	692.6	671.5	599.3	535.9	488.3	478.3
87.5°	251.4	264.6	313.6	400.9	504.8	556.4	531.9	442.6	370.5	326.8	318.2
90°	164.7	172.7	201.8	258.7	348.0	419.4	391.7	308.3	246.7	207.8	203.8
92.5°	113.8	116.4	134.3	167.4	231.6	289.1	268.6	207.8	162.1	134.3	130.3
95°	81.3	84.0	95.2	115.1	154.8	189.9	178.6	141.0	110.5	91.2	88.7
97.5°	60.3	62.2	72.1	85.3	109.1	127.7	119.8	99.9	80.7	66.2	64.1
100°	47.0	47.7	56.3	66.2	81.3	91.2	85.3	74.8	62.2	51.6	50.3
102.5°	37.0	37.7	44.3	52.3	62.8	70.2	65.5	57.6	48.3	41.0	40.4
105°	29.2	29.8	34.4	41.6	50.3	54.9	51.6	45.0	37.0	31.7	31.7
107.5°	23.1	23.8	27.1	33.0	40.4	44.3	41.6	35.1	29.2	25.2	25.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	19.2	19.2	21.8	26.5	33.0	36.4	33.8	27.8	23.1	20.5	19.8
112.5°	15.9	15.9	17.9	21.8	27.1	29.8	27.8	22.5	18.5	16.6	16.6
115°	13.2	13.9	14.5	18.5	23.1	25.2	23.1	19.2	15.2	13.9	13.9
117.5°	11.9	11.9	13.2	15.9	19.8	21.8	19.8	16.6	13.2	12.6	12.6
120°	10.5	10.5	11.3	13.2	17.2	18.5	17.2	13.9	11.9	11.3	11.3
122.5°	9.9	9.9	9.9	11.9	14.5	16.6	15.2	12.6	10.5	9.9	9.9
125°	9.3	9.3	9.3	10.5	13.2	13.9	13.2	11.3	9.3	9.3	9.3
127.5°	9.3	9.3	9.3	9.9	11.3	12.6	11.9	9.9	8.6	8.6	8.6
130°	8.6	8.6	8.6	9.3	9.9	10.5	9.9	9.3	8.6	8.6	8.6
132.5°	8.0	8.0	8.0	8.0	8.6	9.3	8.6	8.0	8.0	8.0	8.0
135°	7.3	7.3	7.3	6.6	7.3	8.0	7.3	6.6	6.6	7.3	7.3
137.5°	6.6	6.6	5.9	5.9	5.9	6.6	5.9	5.9	5.9	5.9	6.6
140°	5.9	5.9	5.3	5.3	5.3	5.3	4.6	4.6	4.6	5.3	5.3
142.5°	5.3	4.6	4.6	4.0	4.0	4.0	4.0	3.3	4.0	4.6	4.6
145°	4.0	4.0	4.0	3.3	3.3	3.3	2.7	2.7	3.3	3.3	3.3
147.5°	3.3	3.3	2.7	2.7	1.9	1.9	1.9	1.9	2.7	2.7	2.7
150°	2.7	2.7	1.9	1.9	1.3	1.3	1.3	1.3	1.9	1.9	1.9
152.5°	1.9	1.9	1.3	1.3	1.3	0.6	0.6	0.6	1.3	1.3	1.3
155°	1.3	1.3	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	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)