

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: P266140

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266140
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-AF24-70-D-U-5WQ-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 6441.6 lumens
Efficiency: N/A
Efficacy: 87.0 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 - G3

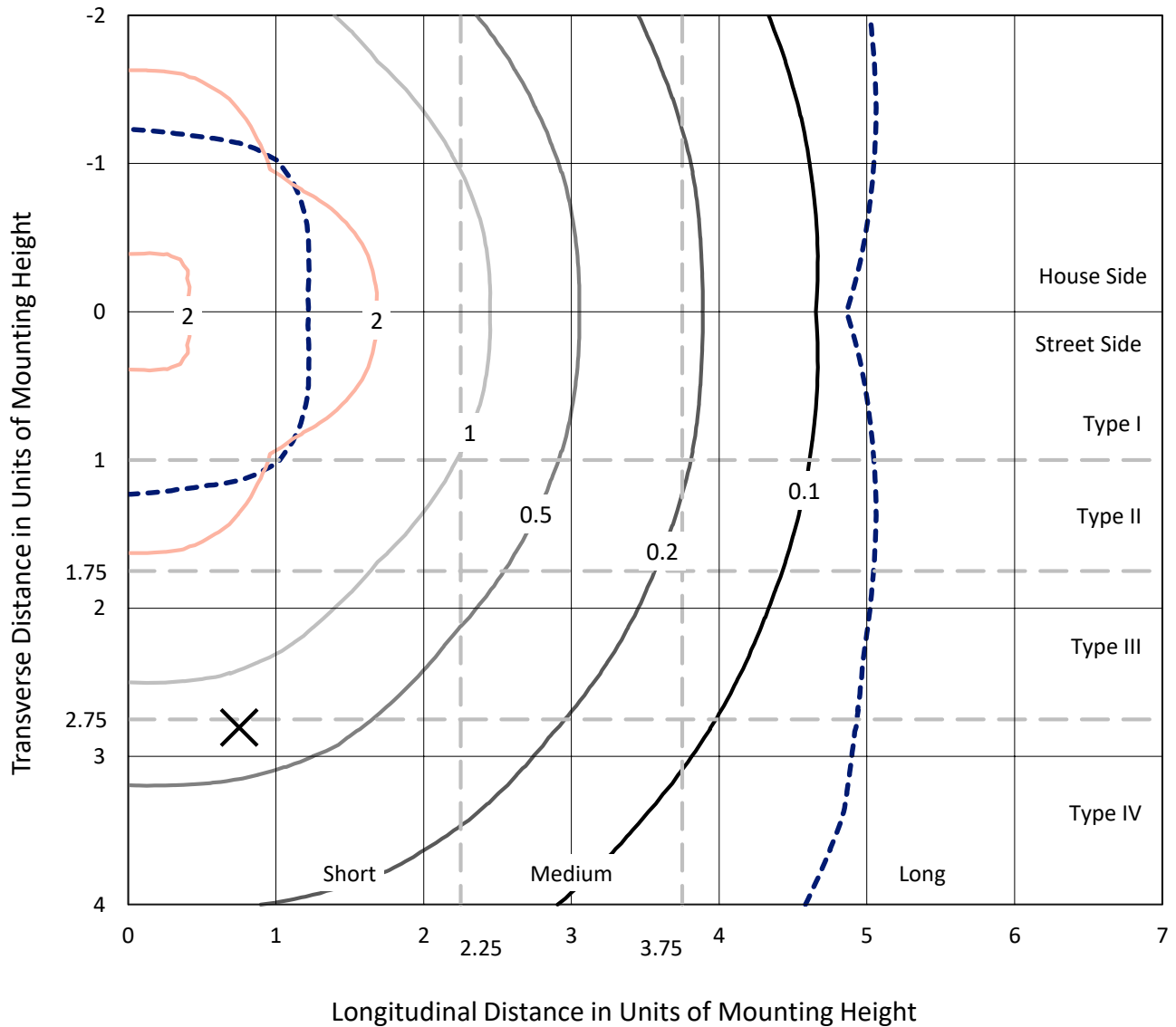
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

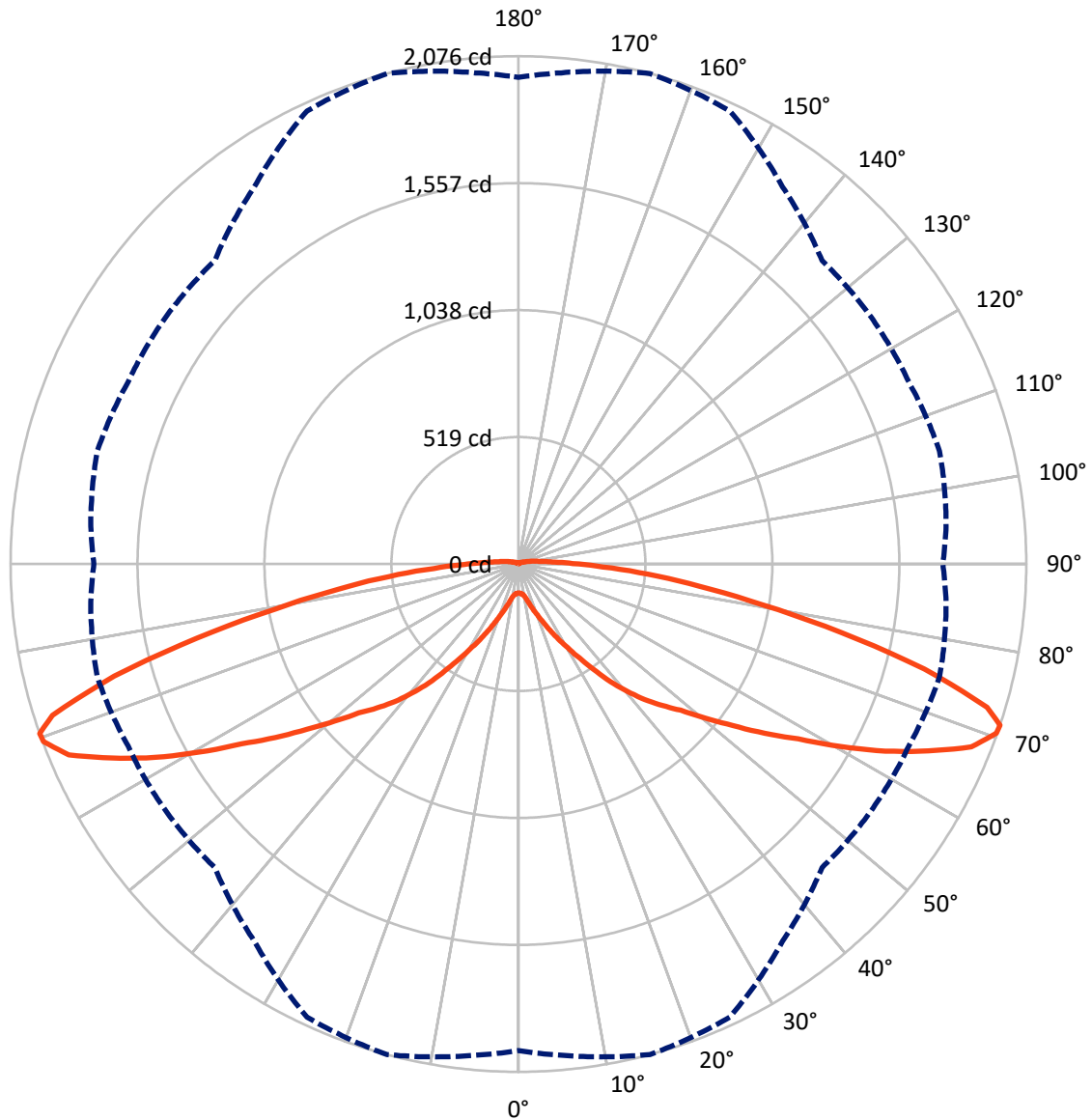
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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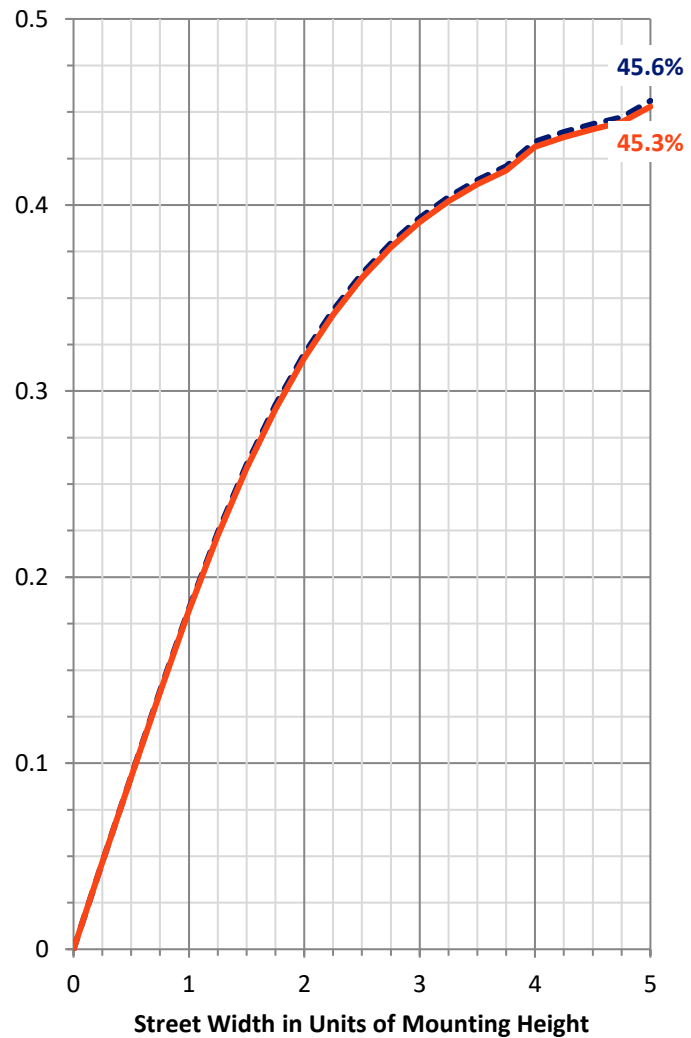
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3086.4	134.4	3220.8
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3086.4	134.4	3220.8
	% Fixture	47.9	2.1	50.0
Total	Lumens	6172.7	268.9	6441.6
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.2
10°-20°	47.8	0.7
20°-30°	135.1	2.1
30°-40°	314.9	4.9
40°-50°	587.9	9.1
50°-60°	1049.0	16.3
60°-70°	1719.7	26.7
70°-80°	1608.6	25.0
80°-90°	697.7	10.8
90°-100°	176.2	2.7
100°-110°	51.4	0.8
110°-120°	21.1	0.3
120°-130°	11.2	0.2
130°-140°	6.2	0.1
140°-150°	2.4	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6172.7	95.8
0°-180°	6441.6	100.0



--- HS — SS

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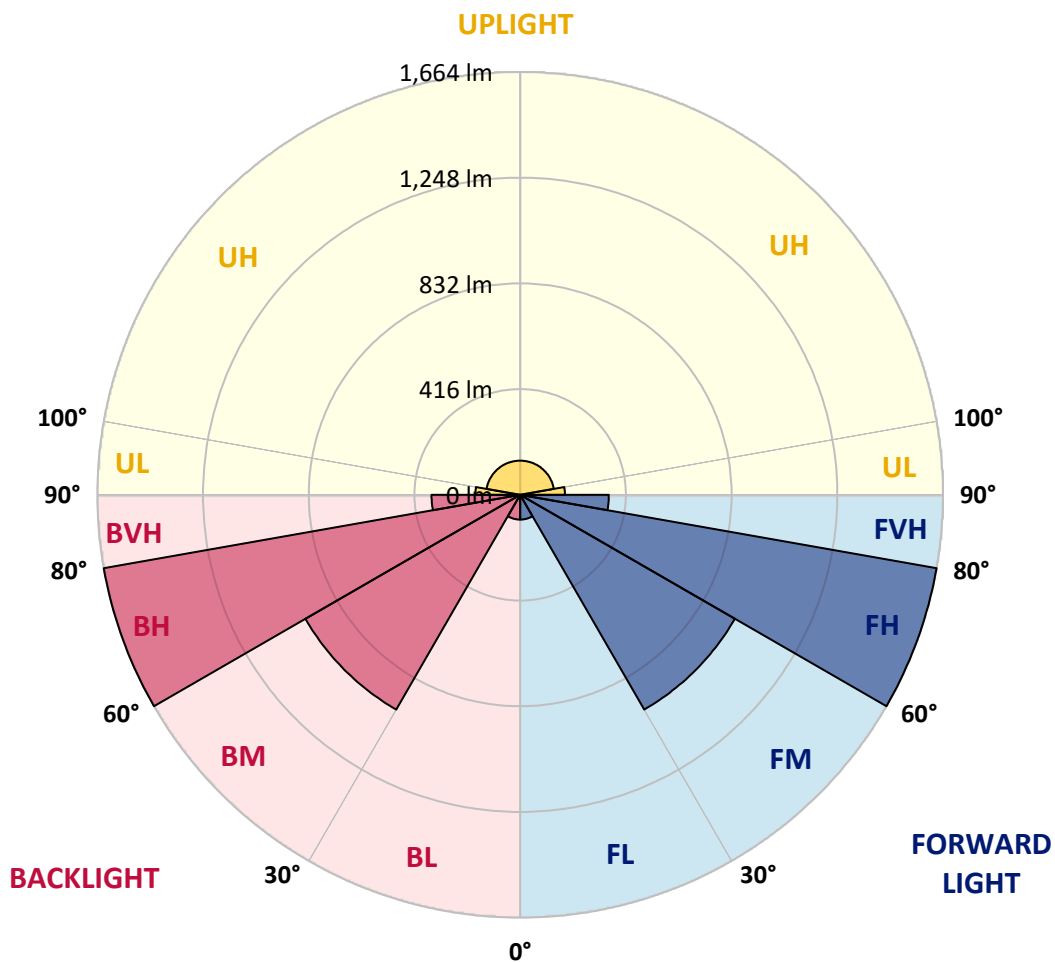
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.4	1.5			
FM (30°-60°)	975.9	15.2			
FH (60°-80°)	1664.2	25.8			G1/1800
FVH (80°-90°)	348.9	5.4			G3/500
BL (0°-30°)	97.4	1.5	B0/110		
BM (30°-60°)	975.9	15.2	B1/1000		
BH (60°-80°)	1664.2	25.8	B3/2500		G1/1800
BVH (80°-90°)	348.9	5.4			G3/500
UL (90°-100°)	176.2	2.7		U3/500	
UH (100°-180°)	134.4	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°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7
2.5°	119.5	119.5	119.5	120.2	120.2	120.2	119.5	119.5	118.7	118.7	118.7
5°	121.6	121.6	121.6	121.6	121.6	121.6	120.8	120.8	120.2	120.2	120.2
7.5°	125.3	125.3	125.3	125.3	125.3	124.4	123.7	123.1	123.1	123.1	123.1
10°	133.2	133.2	132.5	131.8	131.1	129.5	129.5	128.8	128.8	128.8	129.5
12.5°	149.9	149.9	147.9	144.2	139.7	138.2	137.6	139.1	141.3	141.9	143.4
15°	171.8	171.8	168.9	163.1	156.6	150.7	152.2	156.6	160.2	162.4	163.9
17.5°	198.7	198.7	194.5	186.4	177.0	173.3	172.6	178.4	184.2	188.6	191.5
20°	228.6	228.6	222.8	211.9	202.4	200.2	199.6	203.8	212.5	219.1	222.1
22.5°	265.0	265.8	257.1	242.5	233.0	228.6	227.9	233.6	247.6	257.1	260.7
25°	310.2	310.2	300.8	280.4	267.2	259.9	261.3	272.2	291.9	305.1	307.2
27.5°	360.4	359.0	346.6	324.6	305.9	294.9	298.4	315.2	339.3	359.0	361.8
30°	416.5	414.9	397.5	374.2	347.3	334.2	340.0	364.1	396.8	424.4	428.1
32.5°	481.2	479.8	458.0	428.1	392.4	375.0	385.9	420.0	460.1	495.9	501.0
35°	559.1	557.7	528.6	487.2	443.5	422.3	436.8	478.3	525.7	568.5	575.2
37.5°	640.8	640.8	610.0	556.9	499.5	473.2	489.2	536.6	592.6	634.8	642.2
40°	715.0	715.0	684.4	632.6	562.8	527.8	544.6	593.4	643.5	681.5	688.7
42.5°	783.4	785.6	757.2	704.0	629.1	589.0	599.2	642.2	693.9	736.2	743.3
45°	837.9	842.4	825.0	774.7	699.7	652.3	656.0	704.8	766.0	810.4	819.1
47.5°	904.2	905.0	892.6	845.2	774.7	723.0	725.9	783.4	850.3	896.1	900.6
50°	998.1	1000.4	989.5	935.6	861.2	803.1	817.5	877.4	960.3	1009.1	1010.6
52.5°	1102.3	1104.5	1096.4	1047.0	961.7	905.8	928.3	997.5	1079.8	1120.5	1119.0
55°	1211.5	1216.6	1220.9	1175.2	1084.9	1027.3	1057.8	1130.0	1206.5	1246.4	1242.0
57.5°	1333.1	1336.7	1348.4	1307.7	1226.7	1170.8	1209.3	1281.4	1359.2	1397.9	1391.4
60°	1499.8	1505.6	1515.1	1459.0	1375.2	1330.8	1373.1	1449.5	1528.9	1552.2	1543.5
62.5°	1651.3	1657.8	1684.1	1641.7	1532.6	1485.9	1542.0	1615.5	1681.7	1692.8	1678.2
65°	1799.0	1806.3	1842.0	1805.6	1697.1	1630.9	1689.8	1750.3	1812.2	1820.1	1805.6
67.5°	1933.7	1953.4	1996.4	1946.1	1823.7	1748.0	1781.6	1830.3	1885.0	1875.5	1857.2
70°	2003.0	2028.4	2072.0	2037.0	1885.6	1771.4	1789.6	1804.2	1830.3	1817.2	1801.2
71°	1989.0	2015.3	2075.8	2043.6	1881.9	1754.6	1759.7	1760.5	1782.2	1754.6	1734.9
72.5°	1890.0	1917.7	2003.0	2007.3	1845.6	1706.6	1684.1	1665.7	1654.1	1604.6	1589.3
75°	1582.1	1618.4	1713.8	1768.5	1678.2	1542.7	1503.5	1442.3	1408.8	1351.9	1348.4
77.5°	1231.1	1255.2	1348.4	1431.4	1406.6	1319.3	1274.9	1215.1	1180.2	1135.7	1109.5
80°	917.3	925.3	1009.9	1103.7	1132.1	1097.2	1064.4	1010.6	969.0	926.2	903.5
82.5°	652.3	667.6	744.1	846.1	912.9	914.5	891.2	830.8	784.1	738.9	721.5
85°	441.2	456.5	530.8	638.5	725.1	762.3	738.9	659.6	589.7	537.2	526.3
87.5°	276.7	291.2	345.0	441.2	555.5	612.3	585.3	487.2	407.7	359.6	350.2
90°	181.3	190.0	222.1	284.7	382.9	461.5	430.9	339.3	271.6	228.6	224.2
92.5°	125.3	128.2	147.9	184.2	254.8	318.2	295.6	228.6	178.4	147.9	143.4
95°	89.6	92.4	104.8	126.8	170.4	208.9	196.5	155.0	121.6	100.5	97.6
97.5°	66.3	68.5	79.4	94.0	120.2	140.6	131.8	110.0	88.8	72.9	70.6
100°	51.7	52.5	62.0	72.9	89.6	100.5	94.0	82.3	68.5	56.9	55.3
102.5°	40.8	41.5	48.8	57.5	69.2	77.2	72.0	63.3	53.2	45.2	44.3
105°	32.0	32.8	37.9	45.9	55.3	60.5	56.9	49.4	40.8	34.9	34.9
107.5°	25.5	26.2	29.9	36.4	44.3	48.8	45.9	38.5	32.0	27.7	27.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	21.1	21.1	24.1	29.1	36.4	40.1	37.1	30.6	25.5	22.5	21.9
112.5°	17.4	17.4	19.7	24.1	29.9	32.8	30.6	24.8	20.4	18.1	18.1
115°	14.6	15.4	16.0	20.4	25.5	27.7	25.5	21.1	16.8	15.4	15.4
117.5°	13.1	13.1	14.6	17.4	21.9	24.1	21.9	18.1	14.6	13.8	13.8
120°	11.7	11.7	12.3	14.6	19.0	20.4	19.0	15.4	13.1	12.3	12.3
122.5°	10.9	10.9	10.9	13.1	16.0	18.1	16.8	13.8	11.7	10.9	10.9
125°	10.2	10.2	10.2	11.7	14.6	15.4	14.6	12.3	10.2	10.2	10.2
127.5°	10.2	10.2	10.2	10.9	12.3	13.8	13.1	10.9	9.4	9.4	9.4
130°	9.4	9.4	9.4	10.2	10.9	11.7	10.9	10.2	9.4	9.4	9.4
132.5°	8.8	8.8	8.8	8.8	9.4	10.2	9.4	8.8	8.8	8.8	8.8
135°	8.1	8.1	8.1	7.2	8.1	8.8	8.1	7.2	7.2	8.1	8.1
137.5°	7.2	7.2	6.6	6.6	6.6	7.2	6.6	6.6	6.6	6.6	7.2
140°	6.6	6.6	5.7	5.7	5.7	5.7	5.1	5.1	5.1	5.7	5.7
142.5°	5.7	5.1	5.1	4.4	4.4	4.4	4.4	3.7	4.4	5.1	5.1
145°	4.4	4.4	4.4	3.7	3.7	3.7	3.0	3.0	3.7	3.7	3.7
147.5°	3.7	3.7	3.0	3.0	2.2	2.2	2.2	2.2	3.0	3.0	3.0
150°	3.0	3.0	2.2	2.2	1.4	1.4	1.4	1.4	2.2	2.2	2.2
152.5°	2.2	2.2	1.4	1.4	1.4	0.7	0.7	0.7	1.4	1.4	1.4
155°	1.4	1.4	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	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)