

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: P266082

Luminaire Tested: **LXF.LXT-AF24-50-D-U-5WQ-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266082
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-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 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: 4971.1 lumens
Efficiency: N/A
Efficacy: 92.1 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

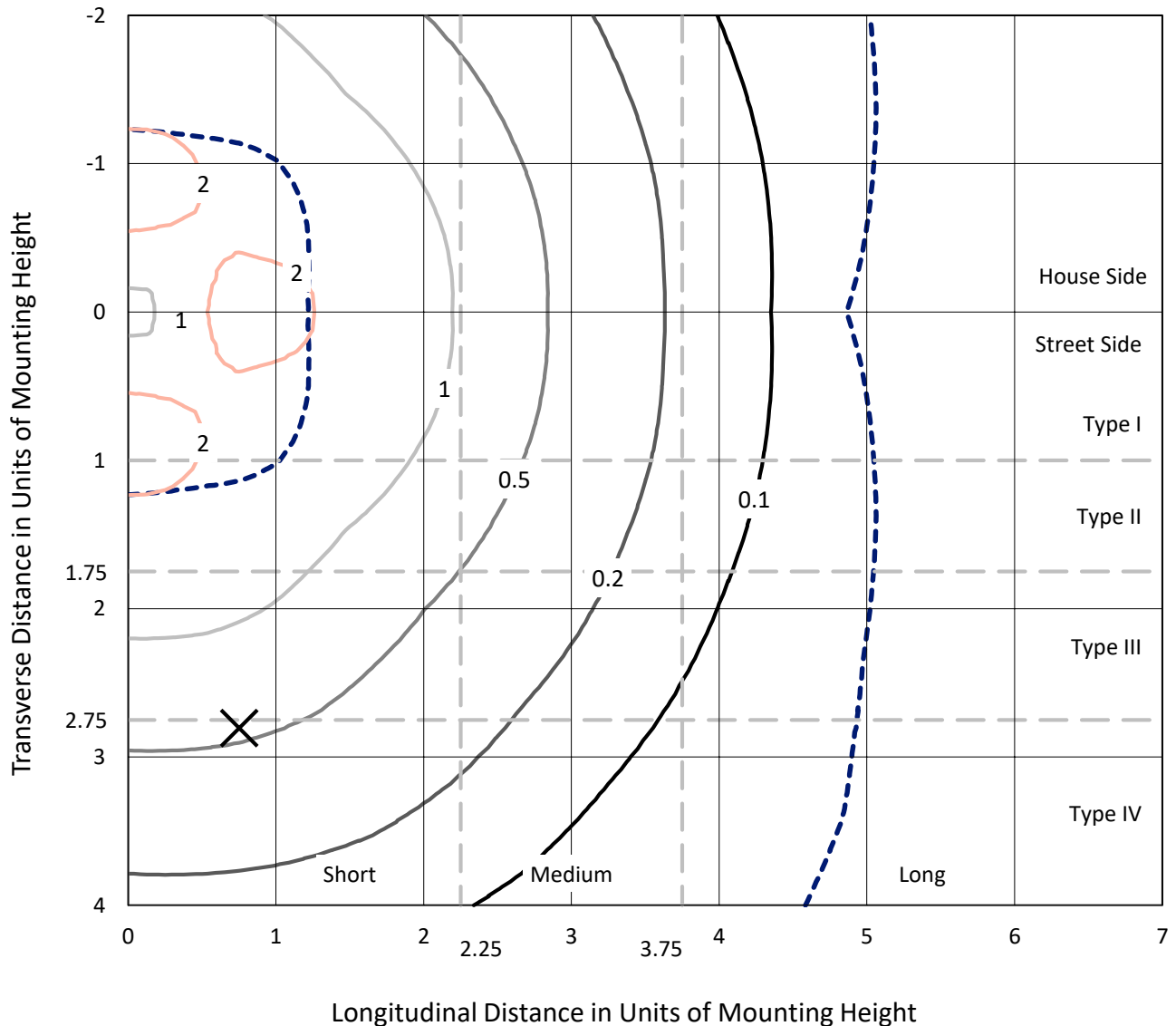
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

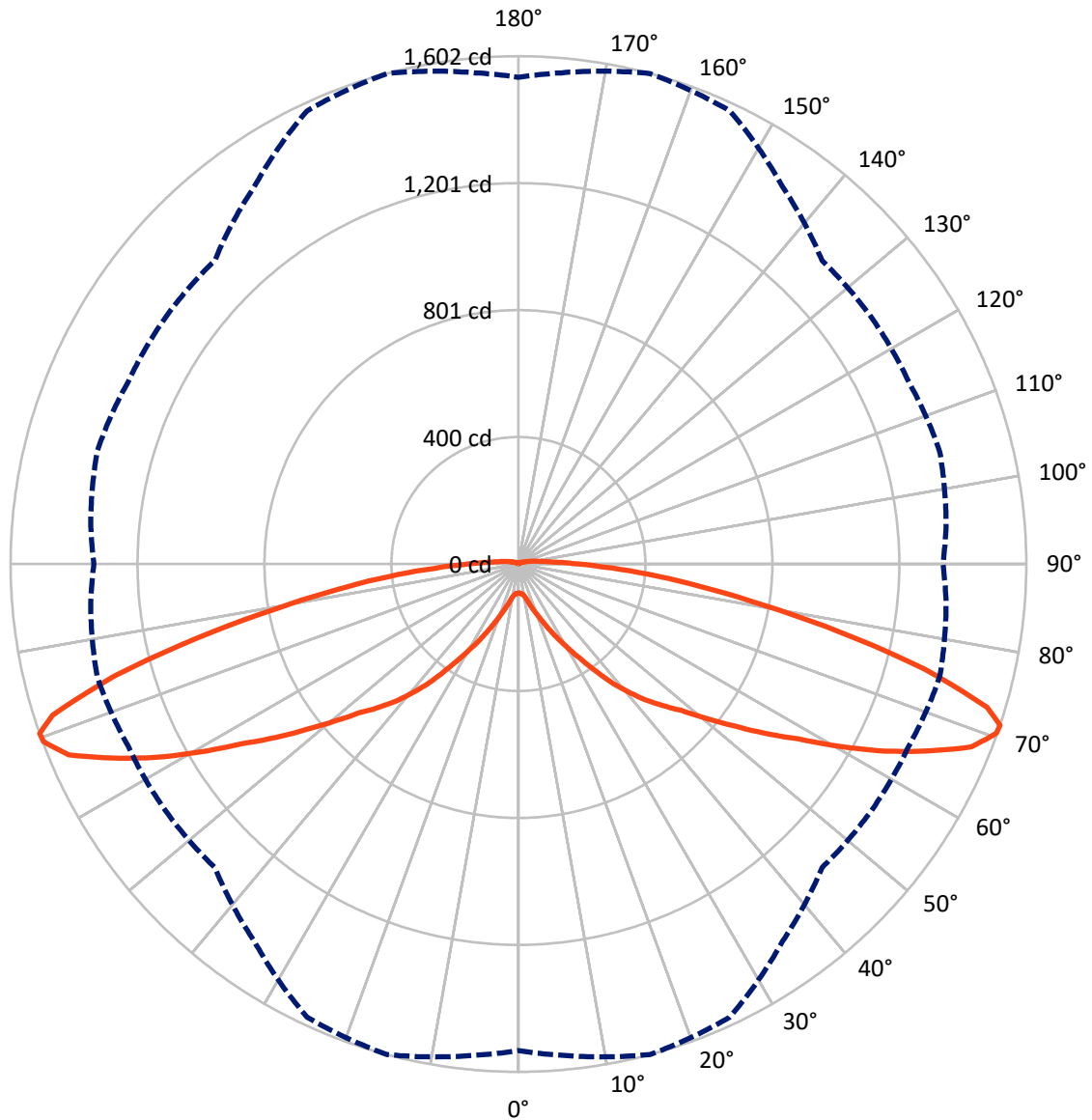


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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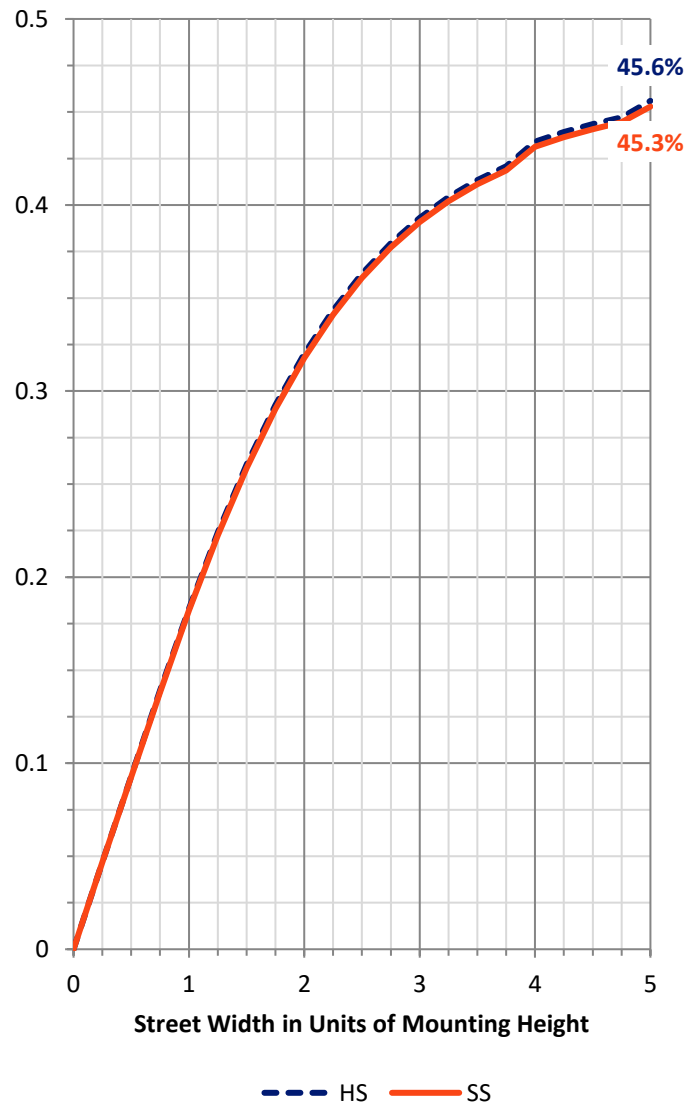
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.9	103.7	2485.6
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	2381.9	103.7	2485.6
	% Fixture	47.9	2.1	50.0
Total	Lumens	4763.8	207.4	4971.1
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.2
10°-20°	36.9	0.7
20°-30°	104.3	2.1
30°-40°	243.0	4.9
40°-50°	453.7	9.1
50°-60°	809.6	16.3
60°-70°	1327.2	26.7
70°-80°	1241.5	25.0
80°-90°	538.5	10.8
90°-100°	136.0	2.7
100°-110°	39.7	0.8
110°-120°	16.3	0.3
120°-130°	8.6	0.2
130°-140°	4.7	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4763.8	95.8
0°-180°	4971.1	100.0

Coefficient of Utilization



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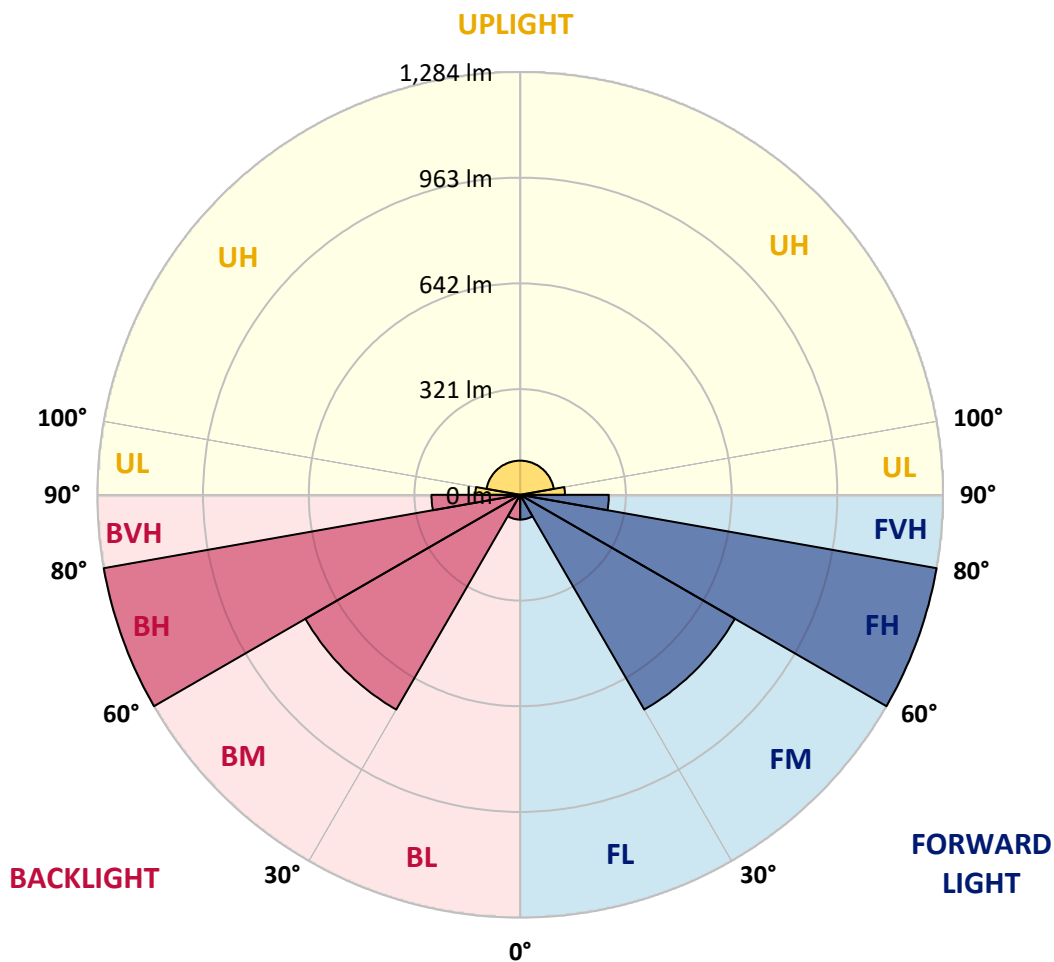
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	75.1	1.5			
FM (30°-60°)	753.2	15.2			
FH (60°-80°)	1284.3	25.8			G1/1800
FVH (80°-90°)	269.2	5.4			G3/500
BL (0°-30°)	75.1	1.5	B0/110		
BM (30°-60°)	753.2	15.2	B1/1000		
BH (60°-80°)	1284.3	25.8	B3/2500		G1/1800
BVH (80°-90°)	269.2	5.4			G3/500
UL (90°-100°)	136.0	2.7		U3/500	
UH (100°-180°)	103.7	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°	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
2.5°	92.2	92.2	92.2	92.7	92.7	92.7	92.2	92.2	91.5	91.5	91.5
5°	93.9	93.9	93.9	93.9	93.9	93.9	93.2	93.2	92.7	92.7	92.7
7.5°	96.7	96.7	96.7	96.7	96.7	96.1	95.5	95.0	95.0	95.0	95.0
10°	102.9	102.9	102.2	101.7	101.1	100.0	100.0	99.4	99.4	99.4	100.0
12.5°	115.7	115.7	114.1	111.3	107.8	106.8	106.2	107.3	109.1	109.6	110.8
15°	132.6	132.6	130.3	125.9	120.8	116.3	117.4	120.8	123.5	125.4	126.4
17.5°	153.4	153.4	150.0	143.9	136.5	133.7	133.2	137.7	142.1	145.5	147.9
20°	176.4	176.4	171.9	163.5	156.1	154.5	154.0	157.4	164.1	169.2	171.3
22.5°	204.5	205.2	198.3	187.0	179.8	176.4	175.9	180.4	191.0	198.3	201.1
25°	239.4	239.4	232.0	216.3	206.3	200.6	201.7	210.2	225.4	235.4	237.2
27.5°	278.1	276.9	267.4	250.5	236.0	227.6	230.3	243.4	261.9	276.9	279.3
30°	321.5	320.2	306.9	288.9	268.1	258.0	262.3	280.9	306.2	327.6	330.3
32.5°	371.4	370.3	353.5	330.3	302.9	289.3	297.8	324.2	355.1	382.7	386.6
35°	431.5	430.4	407.9	375.9	342.2	325.8	337.1	369.2	405.7	438.8	443.9
37.5°	494.4	494.4	470.8	429.7	385.5	365.3	377.6	414.1	457.3	489.9	495.5
40°	551.7	551.7	528.2	488.3	434.3	407.3	420.2	458.0	496.8	525.9	531.5
42.5°	604.6	606.3	584.3	543.4	485.4	454.5	462.4	495.5	535.5	568.1	573.7
45°	646.7	650.2	636.5	597.8	540.1	503.4	506.3	544.0	591.1	625.4	632.0
47.5°	697.9	698.4	688.9	652.3	597.8	557.9	560.3	604.6	656.3	691.6	695.1
50°	770.3	772.1	763.6	722.0	664.7	619.7	631.0	677.1	741.1	778.8	779.9
52.5°	850.7	852.4	846.3	807.9	742.2	699.1	716.4	769.8	833.3	864.7	863.6
55°	935.0	938.9	942.2	906.8	837.2	792.8	816.4	872.1	931.1	961.9	958.5
57.5°	1028.7	1031.7	1040.5	1009.2	946.8	903.4	933.2	988.9	1049.0	1078.9	1073.7
60°	1157.5	1162.0	1169.2	1125.9	1061.3	1027.1	1059.7	1118.7	1180.0	1197.9	1191.2
62.5°	1274.3	1279.4	1299.6	1267.0	1182.8	1146.7	1190.1	1246.8	1298.0	1306.3	1295.1
65°	1388.4	1394.0	1421.6	1393.5	1309.6	1258.6	1304.1	1350.7	1398.5	1404.7	1393.5
67.5°	1492.4	1507.5	1540.7	1501.8	1407.6	1349.1	1374.9	1412.6	1454.6	1447.3	1433.3
70°	1545.8	1565.3	1599.2	1572.2	1455.3	1367.0	1381.1	1392.4	1412.6	1402.4	1390.0
71°	1535.1	1555.2	1601.9	1577.2	1452.5	1354.1	1358.1	1358.6	1375.5	1354.1	1339.0
72.5°	1458.7	1480.0	1545.8	1549.0	1424.4	1317.0	1299.6	1285.6	1276.6	1238.4	1226.5
75°	1220.9	1249.1	1322.7	1364.9	1295.1	1190.7	1160.3	1113.1	1087.2	1043.4	1040.5
77.5°	950.1	968.7	1040.5	1104.6	1085.5	1018.0	983.9	937.8	910.8	876.6	856.4
80°	708.0	714.2	779.3	851.9	873.7	846.7	821.5	779.9	747.8	714.7	697.3
82.5°	503.4	515.3	574.2	652.9	704.6	705.7	687.7	641.1	605.2	570.3	556.8
85°	340.5	352.2	409.5	492.8	559.6	588.3	570.3	509.1	455.1	414.7	406.3
87.5°	213.4	224.8	266.3	340.5	428.8	472.6	451.8	375.9	314.6	277.5	270.3
90°	139.9	146.7	171.3	219.6	295.5	356.3	332.6	261.9	209.6	176.4	173.1
92.5°	96.7	99.0	114.1	142.1	196.6	245.5	228.1	176.4	137.7	114.1	110.8
95°	69.1	71.3	80.8	97.7	131.5	161.2	151.8	119.7	93.9	77.6	75.3
97.5°	51.2	52.8	61.3	72.5	92.7	108.4	101.7	84.8	68.5	56.1	54.4
100°	39.9	40.5	47.8	56.1	69.1	77.6	72.5	63.5	52.8	43.8	42.7
102.5°	31.5	32.0	37.6	44.3	53.4	59.6	55.7	48.9	41.1	34.9	34.2
105°	24.8	25.3	29.3	35.5	42.7	46.6	43.8	38.2	31.5	26.9	26.9
107.5°	19.7	20.2	23.0	28.0	34.2	37.6	35.5	29.7	24.8	21.4	21.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	16.3	16.3	18.5	22.5	28.0	30.9	28.7	23.5	19.7	17.3	16.9
112.5°	13.5	13.5	15.2	18.5	23.0	25.3	23.5	19.1	15.7	14.1	14.1
115°	11.1	11.8	12.3	15.7	19.7	21.4	19.7	16.3	12.9	11.8	11.8
117.5°	10.2	10.2	11.1	13.5	16.9	18.5	16.9	14.1	11.1	10.7	10.7
120°	9.1	9.1	9.5	11.1	14.6	15.7	14.6	11.8	10.2	9.5	9.5
122.5°	8.4	8.4	8.4	10.2	12.3	14.1	12.9	10.7	9.1	8.4	8.4
125°	7.8	7.8	7.8	9.1	11.1	11.8	11.1	9.5	7.8	7.8	7.8
127.5°	7.8	7.8	7.8	8.4	9.5	10.7	10.2	8.4	7.2	7.2	7.2
130°	7.2	7.2	7.2	7.8	8.4	9.1	8.4	7.8	7.2	7.2	7.2
132.5°	6.7	6.7	6.7	6.7	7.2	7.8	7.2	6.7	6.7	6.7	6.7
135°	6.2	6.2	6.2	5.6	6.2	6.7	6.2	5.6	5.6	6.2	6.2
137.5°	5.6	5.6	5.1	5.1	5.1	5.6	5.1	5.1	5.1	5.1	5.6
140°	5.1	5.1	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.5	4.5
142.5°	4.5	4.0	4.0	3.4	3.4	3.4	3.4	2.9	3.4	4.0	4.0
145°	3.4	3.4	3.4	2.9	2.9	2.9	2.2	2.2	2.9	2.9	2.9
147.5°	2.9	2.9	2.2	2.2	1.6	1.6	1.6	1.6	2.2	2.2	2.2
150°	2.2	2.2	1.6	1.6	1.1	1.1	1.1	1.1	1.6	1.6	1.6
152.5°	1.6	1.6	1.1	1.1	1.1	0.5	0.5	0.5	1.1	1.1	1.1
155°	1.1	1.1	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	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)