

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: P266085

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266085
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-AF24-50-D-U-5WQ-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 5010.4 lumens
Efficiency: N/A
Efficacy: 92.8 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): 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

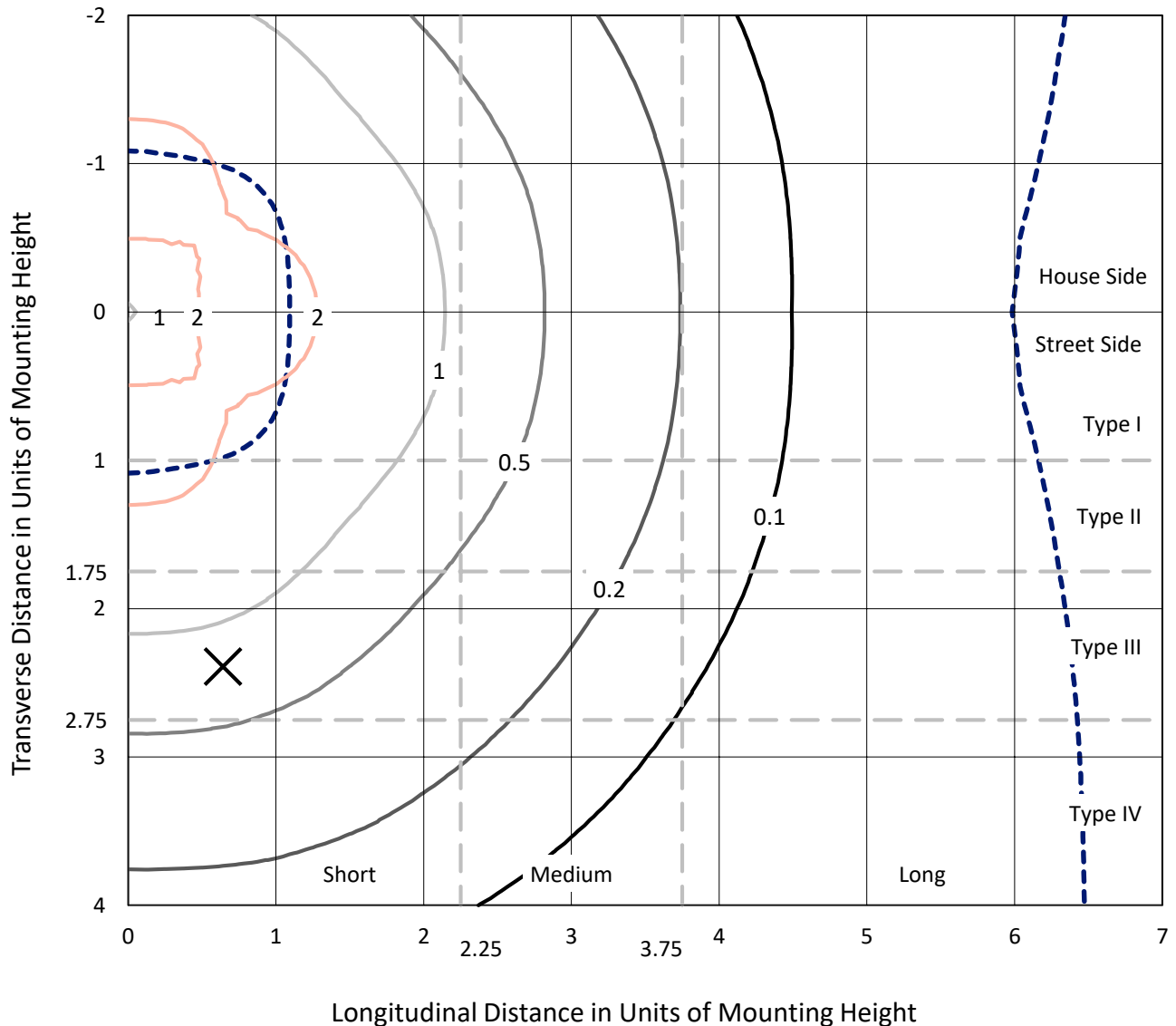


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Iso-Footcandle Lines of Horizontal Illumination

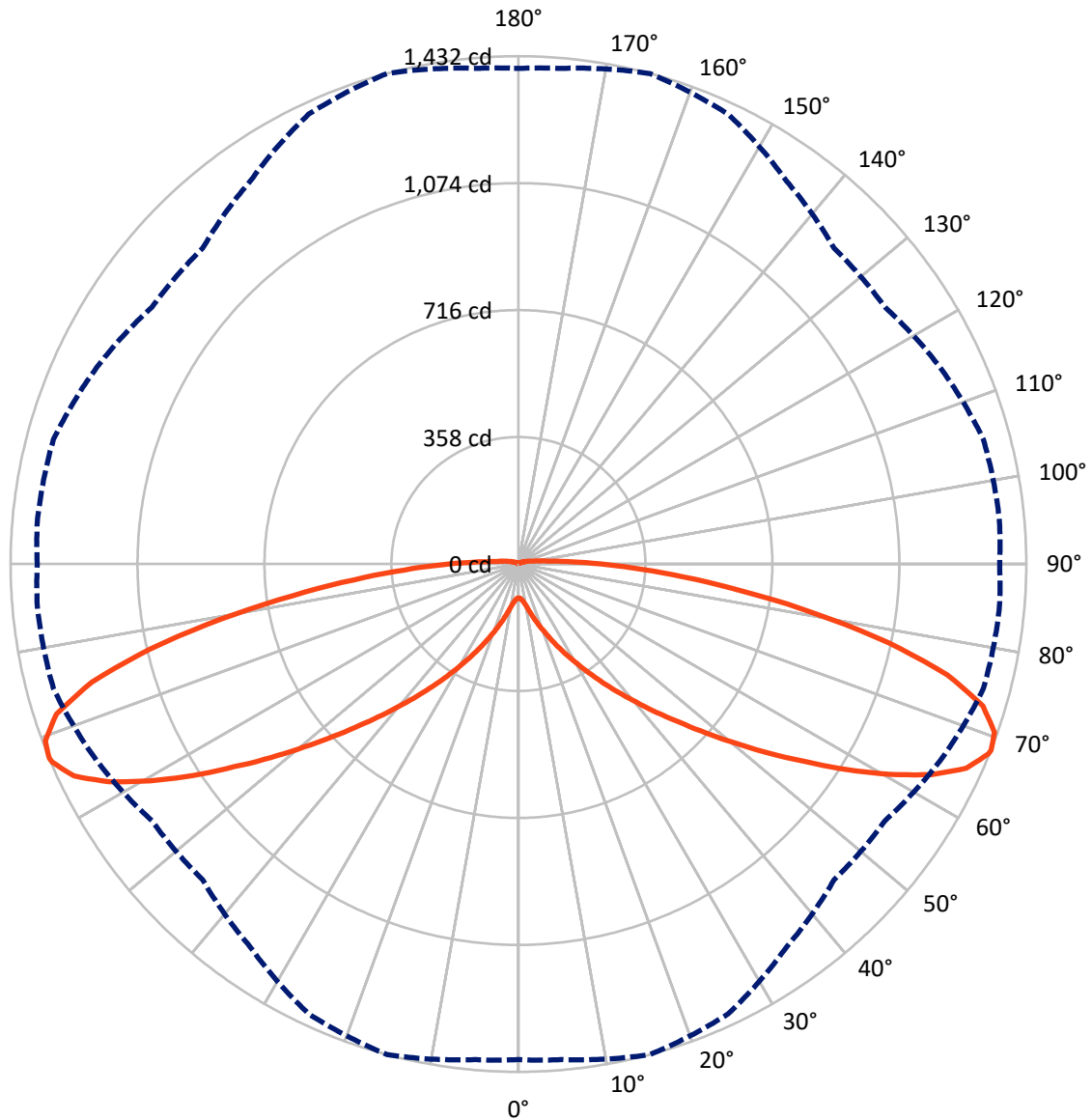
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 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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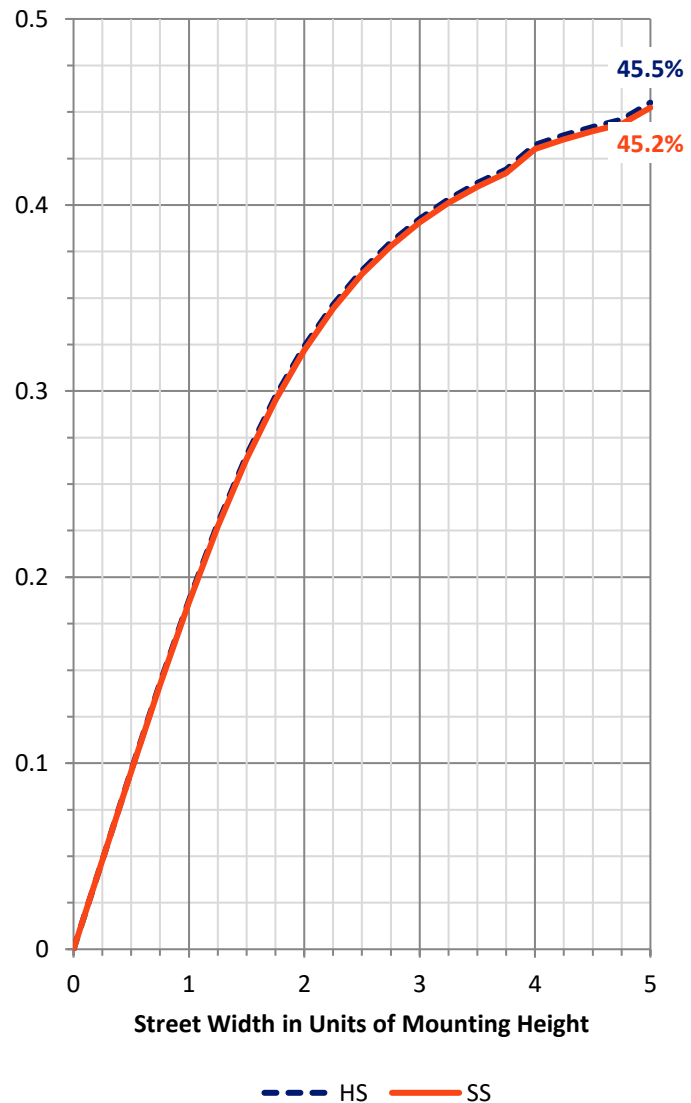
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.0	100.3	2505.2
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2405.0	100.3	2505.2
	% Fixture	48.0	2.0	50.0
Total	Lumens	4809.9	200.5	5010.4
	% Fixture	96.0	4.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	45.8	0.9
20°-30°	120.7	2.4
30°-40°	253.4	5.1
40°-50°	475.8	9.5
50°-60°	840.7	16.8
60°-70°	1267.9	25.3
70°-80°	1228.9	24.5
80°-90°	566.4	11.3
90°-100°	134.8	2.7
100°-110°	37.7	0.8
110°-120°	15.8	0.3
120°-130°	7.1	0.1
130°-140°	3.4	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4809.9	96.0
0°-180°	5010.4	100.0



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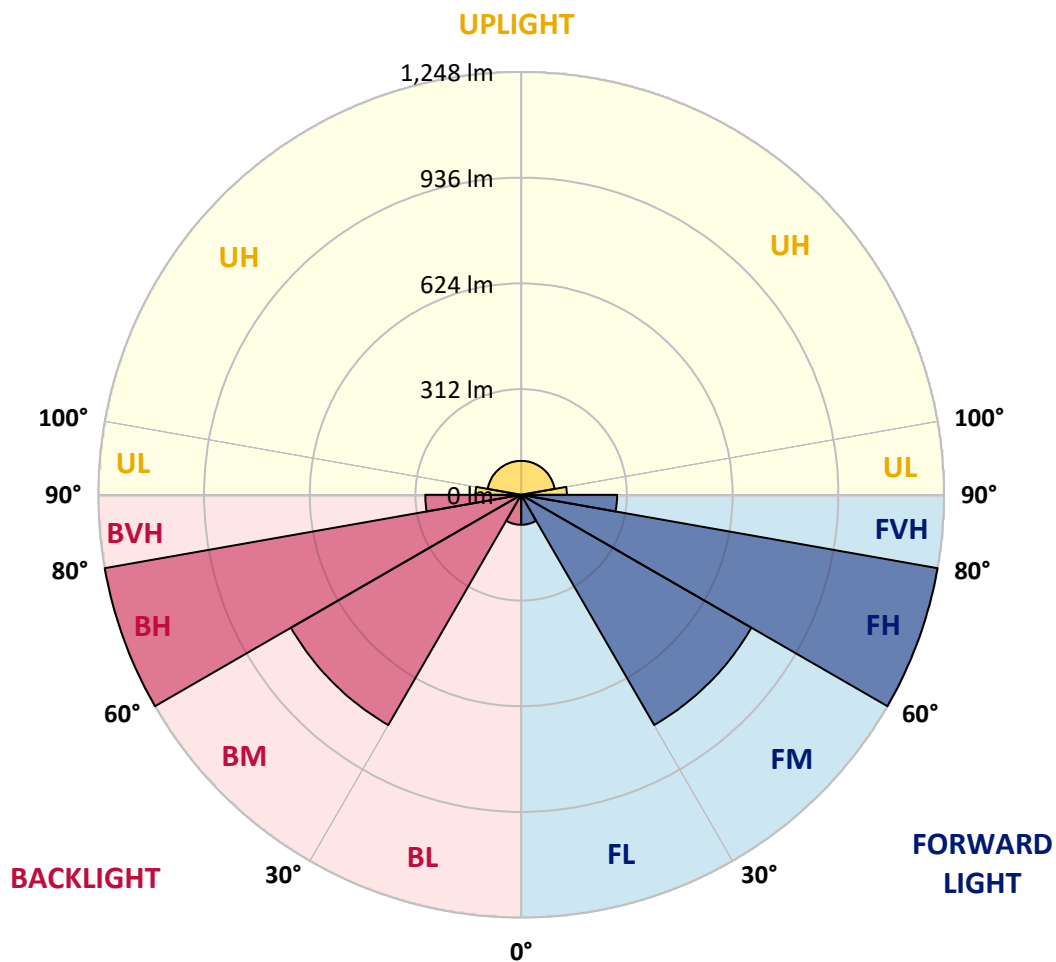
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.4	1.8			
FM	(30°-60°)	784.9	15.7			
FH	(60°-80°)	1248.4	24.9			G1/1800
FVH	(80°-90°)	283.2	5.7			G3/500
BL	(0°-30°)	88.4	1.8	B0/110		
BM	(30°-60°)	784.9	15.7	B1/1000		
BH	(60°-80°)	1248.4	24.9	B3/2500		G1/1800
BVH	(80°-90°)	283.2	5.7			G3/500
UL	(90°-100°)	134.8	2.7		U3/500	
UH	(100°-180°)	100.3	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°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2.5°	97.1	97.1	97.1	97.1	97.1	97.7	97.1	97.1	97.1	97.1	97.1
5°	101.1	101.1	101.1	101.7	101.7	101.7	101.7	101.7	101.7	102.2	101.7
7.5°	108.4	108.4	108.4	108.4	108.4	108.4	109.1	109.6	109.6	110.1	110.1
10°	119.7	119.7	119.1	119.1	119.1	119.7	119.7	120.8	121.5	123.1	122.4
12.5°	137.1	137.1	136.1	134.8	134.2	133.8	134.8	137.1	138.8	141.7	141.0
15°	156.8	156.8	155.6	154.0	153.4	152.8	153.4	156.2	159.0	161.9	161.2
17.5°	178.8	178.1	177.0	174.8	174.8	174.2	174.2	177.0	180.4	184.3	184.3
20°	202.8	201.7	200.1	197.3	197.3	196.6	197.3	199.5	204.5	209.0	209.0
22.5°	230.3	229.2	227.0	224.1	222.5	221.4	221.9	225.4	231.6	237.7	238.3
25°	261.2	259.6	257.4	254.0	249.5	247.3	248.4	254.0	261.9	269.8	268.1
27.5°	293.8	293.3	290.0	284.9	278.1	274.8	277.5	284.4	293.8	302.3	302.9
30°	332.2	330.3	325.9	318.1	310.8	303.9	306.9	315.8	328.7	340.0	340.5
32.5°	372.0	371.4	366.4	355.1	342.8	336.5	339.4	352.3	367.4	378.7	381.1
35°	418.2	417.0	411.3	396.7	381.1	372.5	375.4	391.1	409.6	423.7	424.8
37.5°	468.6	465.9	459.2	441.6	421.5	411.3	414.2	432.2	454.6	468.6	472.0
40°	520.8	520.4	512.5	492.2	467.5	453.5	458.0	478.2	504.0	519.8	522.0
42.5°	581.7	580.5	572.6	549.0	518.6	502.3	507.5	531.5	559.6	575.5	578.1
45°	645.6	646.8	636.1	613.1	577.7	559.1	562.5	590.0	620.9	640.6	642.8
47.5°	719.8	718.1	711.9	683.3	642.8	621.4	625.4	655.8	692.4	710.9	711.9
50°	798.0	796.3	794.0	764.2	717.6	695.6	698.0	731.1	768.1	787.3	792.3
52.5°	885.0	885.5	886.7	854.1	801.8	772.2	777.2	814.9	854.1	871.5	876.0
55°	981.7	982.2	984.5	951.3	892.3	859.1	865.3	907.0	949.1	966.5	968.3
57.5°	1089.0	1086.2	1095.3	1055.9	991.2	953.0	959.7	1003.0	1048.1	1064.9	1068.3
60°	1196.4	1192.4	1204.7	1165.5	1091.4	1049.7	1053.1	1103.6	1151.9	1162.6	1170.0
62.5°	1287.5	1291.4	1307.7	1267.7	1185.7	1135.1	1140.7	1191.8	1245.8	1256.5	1258.2
65°	1358.7	1364.3	1388.5	1347.0	1265.4	1204.7	1212.6	1265.4	1321.0	1326.2	1325.0
67.5°	1396.3	1401.4	1428.9	1394.7	1312.2	1252.5	1257.0	1308.2	1355.4	1360.5	1355.4
68°	1397.6	1403.2	1432.3	1399.7	1318.4	1259.2	1262.1	1312.2	1357.6	1362.1	1357.1
70°	1380.7	1394.1	1424.5	1400.3	1323.9	1268.9	1269.3	1309.9	1353.1	1349.8	1345.2
72.5°	1315.5	1327.2	1369.9	1359.9	1295.8	1248.6	1241.8	1269.9	1295.3	1285.7	1282.9
75°	1182.9	1194.0	1249.2	1260.4	1224.4	1190.2	1173.8	1182.9	1182.3	1164.9	1158.2
77.5°	990.7	1006.5	1067.0	1108.7	1096.9	1082.8	1055.2	1041.9	1016.5	981.0	969.9
80°	769.8	785.6	851.4	909.3	932.8	934.4	909.3	864.3	813.7	765.4	755.8
82.5°	571.0	587.2	642.3	714.2	745.1	763.1	735.1	677.1	620.4	567.0	557.4
85°	398.9	410.7	466.4	524.8	569.7	589.5	558.6	509.1	451.8	405.8	396.7
87.5°	271.9	278.7	322.5	381.1	423.1	442.2	415.8	367.4	314.6	272.5	262.9
90°	172.6	177.0	209.7	258.5	301.2	318.1	297.2	255.1	206.8	172.6	166.4
92.5°	105.6	107.8	132.1	171.3	207.4	226.5	207.9	170.3	131.0	106.2	102.9
95°	69.1	70.7	84.9	110.1	140.0	154.0	141.7	113.5	87.0	70.7	68.5
97.5°	51.2	52.2	60.6	74.2	92.2	102.9	94.4	77.6	62.4	52.2	50.6
100°	39.9	40.5	46.1	54.4	64.6	70.7	66.4	56.8	47.3	39.9	39.3
102.5°	32.0	32.0	37.1	43.3	49.4	52.8	50.0	44.9	37.1	31.5	30.9
105°	25.3	25.8	29.7	35.5	39.9	42.1	40.5	36.6	29.7	24.8	24.2
107.5°	20.2	20.2	24.2	29.3	33.7	35.5	33.7	30.4	23.5	19.7	19.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	15.7	16.3	19.1	24.2	28.0	29.7	28.0	24.8	19.1	15.7	15.2
112.5°	12.9	12.9	15.2	19.7	23.5	24.8	23.5	19.7	15.2	12.3	12.3
115°	10.7	10.7	12.3	16.3	19.7	20.8	19.7	16.3	12.3	10.2	10.2
117.5°	9.1	9.5	10.7	13.5	16.3	16.9	16.3	13.5	10.2	9.1	8.4
120°	7.8	8.4	9.1	11.3	13.5	14.1	12.9	10.7	8.4	7.8	7.2
122.5°	7.2	7.2	7.8	9.1	11.3	11.8	10.7	9.1	7.2	6.7	6.7
125°	6.7	6.7	6.7	7.8	9.1	9.5	9.1	7.2	6.2	6.2	6.2
127.5°	6.2	6.2	6.2	6.7	7.8	7.8	7.2	6.2	5.6	5.6	5.6
130°	5.6	5.6	5.6	5.6	6.2	6.7	6.2	5.6	5.1	5.1	5.1
132.5°	5.1	5.1	5.1	5.1	5.1	5.6	5.1	4.5	4.5	4.5	4.5
135°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.0
137.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.4	3.4	3.4	4.0	4.0
140°	3.4	3.4	3.4	3.4	2.9	2.9	2.9	2.9	3.4	3.4	3.4
142.5°	3.4	3.4	2.9	2.9	2.2	2.2	2.2	2.2	2.9	2.9	2.9
145°	2.9	2.9	2.2	2.2	2.2	1.6	1.6	2.2	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
152.5°	1.1	1.1	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.1	1.1
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	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)