

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: P266053

Luminaire Tested: **LXF.LXT-AF24-40-D-U-5WQ-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266053
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-AF24-40-D-U-5WQ-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3855.3 lumens
Efficiency: N/A
Efficacy: 96.4 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: B2 - U3 - G2

Input Watts (W): 40
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

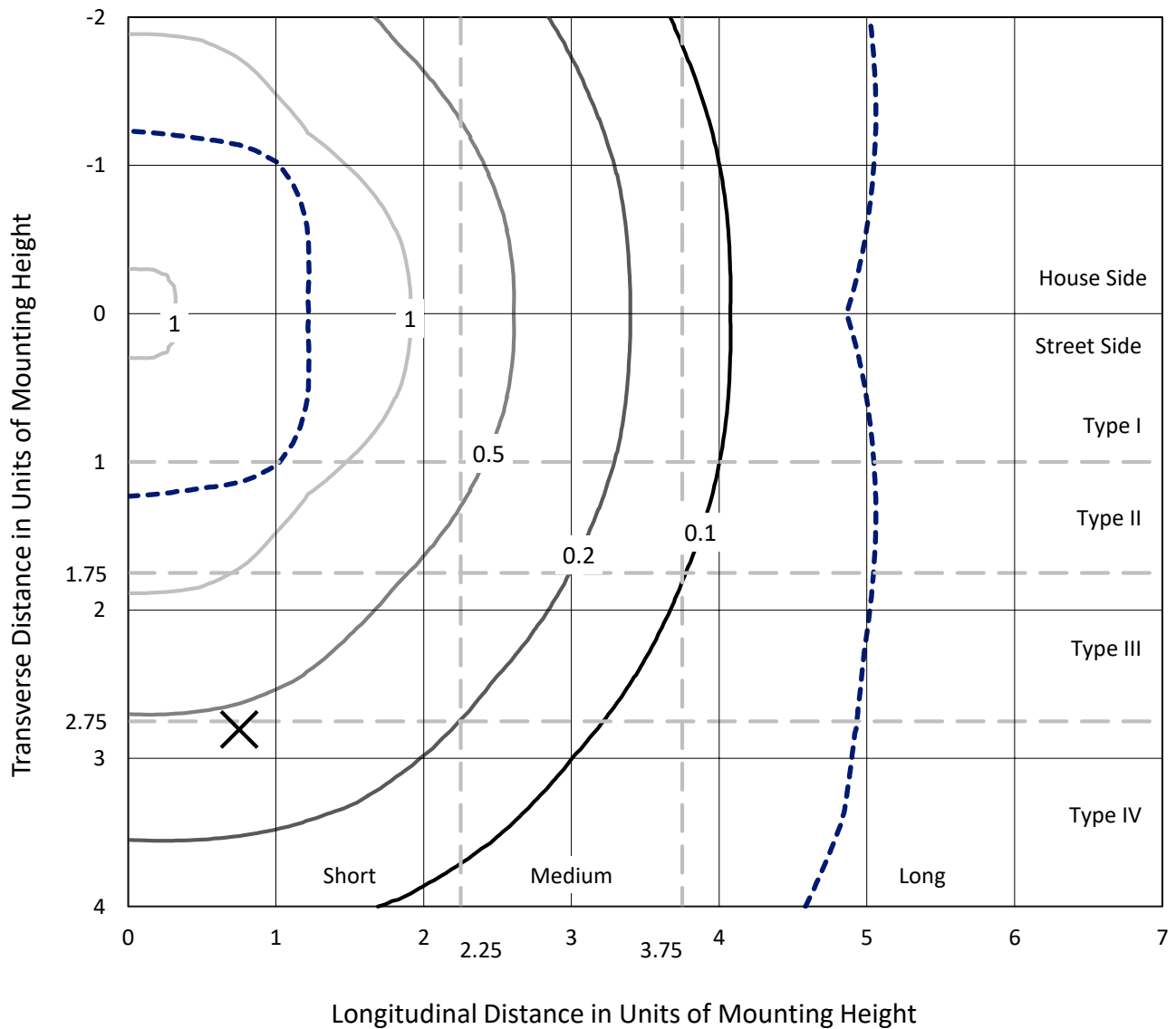


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

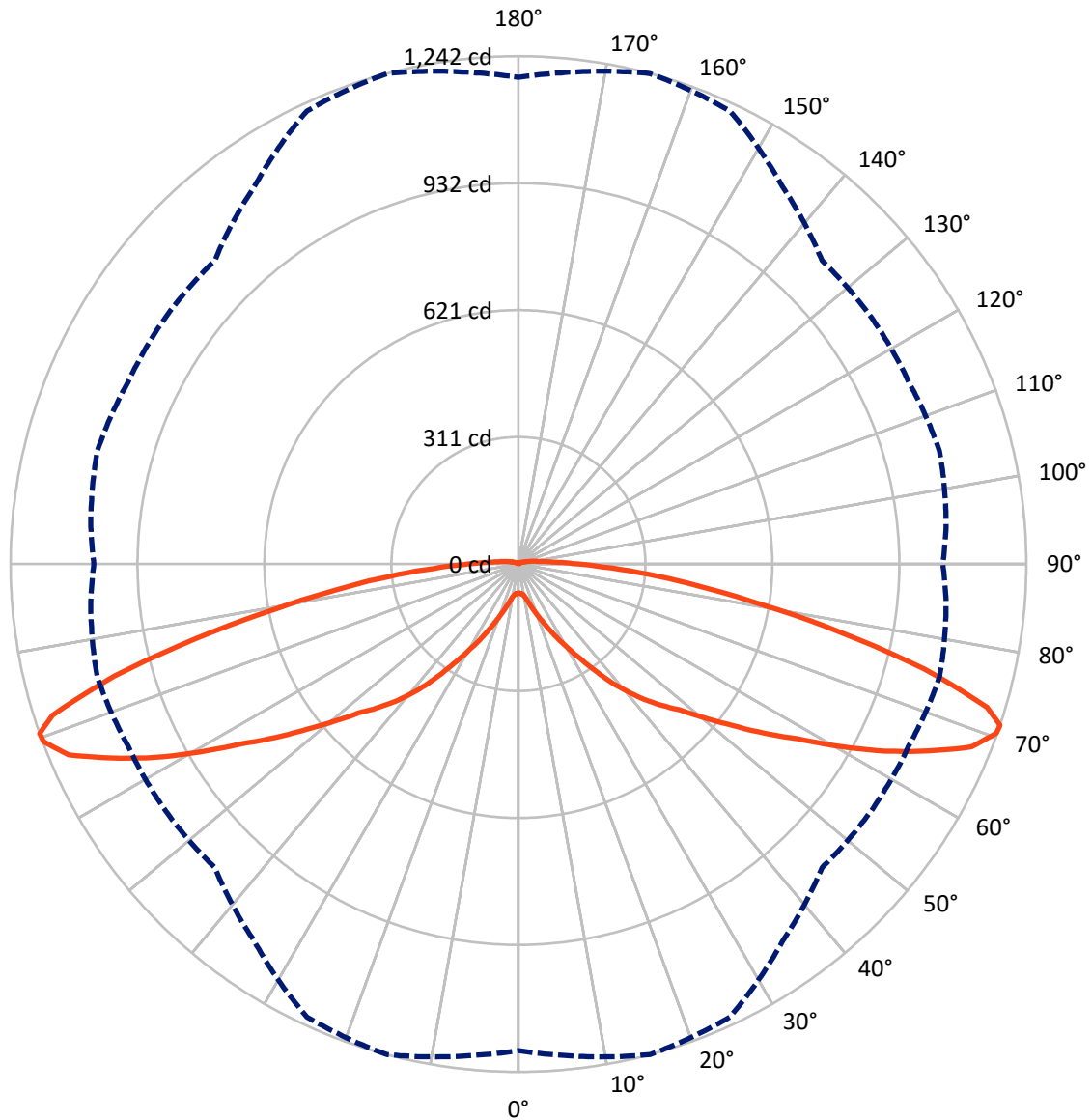


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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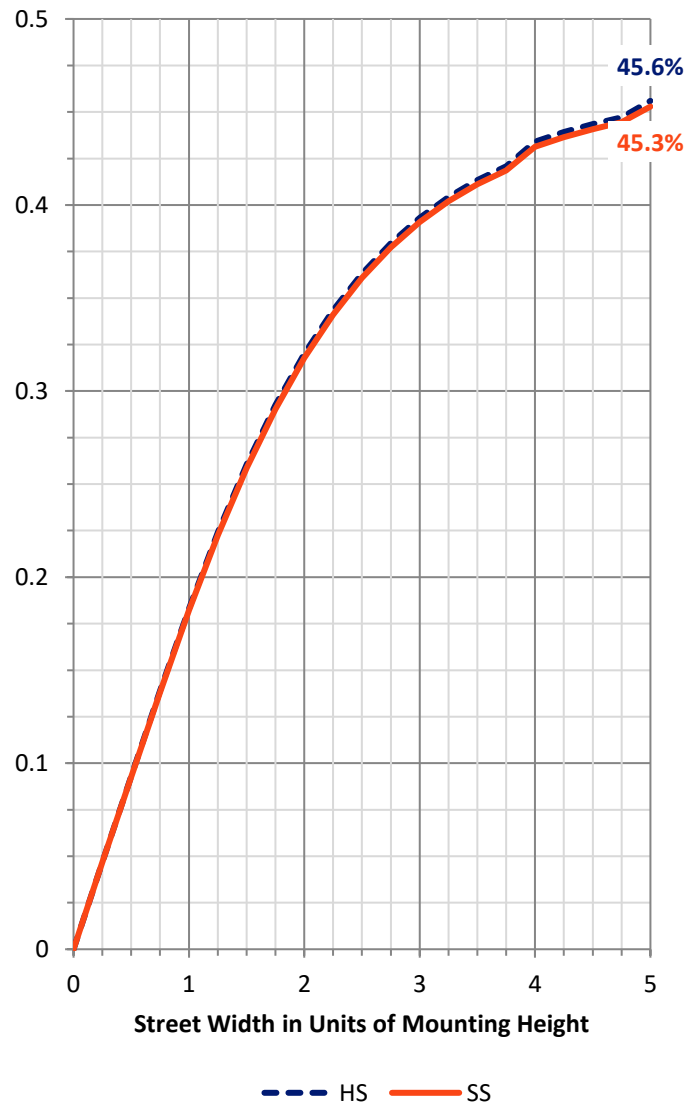
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.2	80.5	1927.7
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	1847.2	80.5	1927.7
	% Fixture	47.9	2.1	50.0
Total	Lumens	3694.4	160.9	3855.3
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.2
10°-20°	28.6	0.7
20°-30°	80.9	2.1
30°-40°	188.5	4.9
40°-50°	351.9	9.1
50°-60°	627.8	16.3
60°-70°	1029.3	26.7
70°-80°	962.8	25.0
80°-90°	417.6	10.8
90°-100°	105.5	2.7
100°-110°	30.8	0.8
110°-120°	12.6	0.3
120°-130°	6.7	0.2
130°-140°	3.7	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3694.4	95.8
0°-180°	3855.3	100.0



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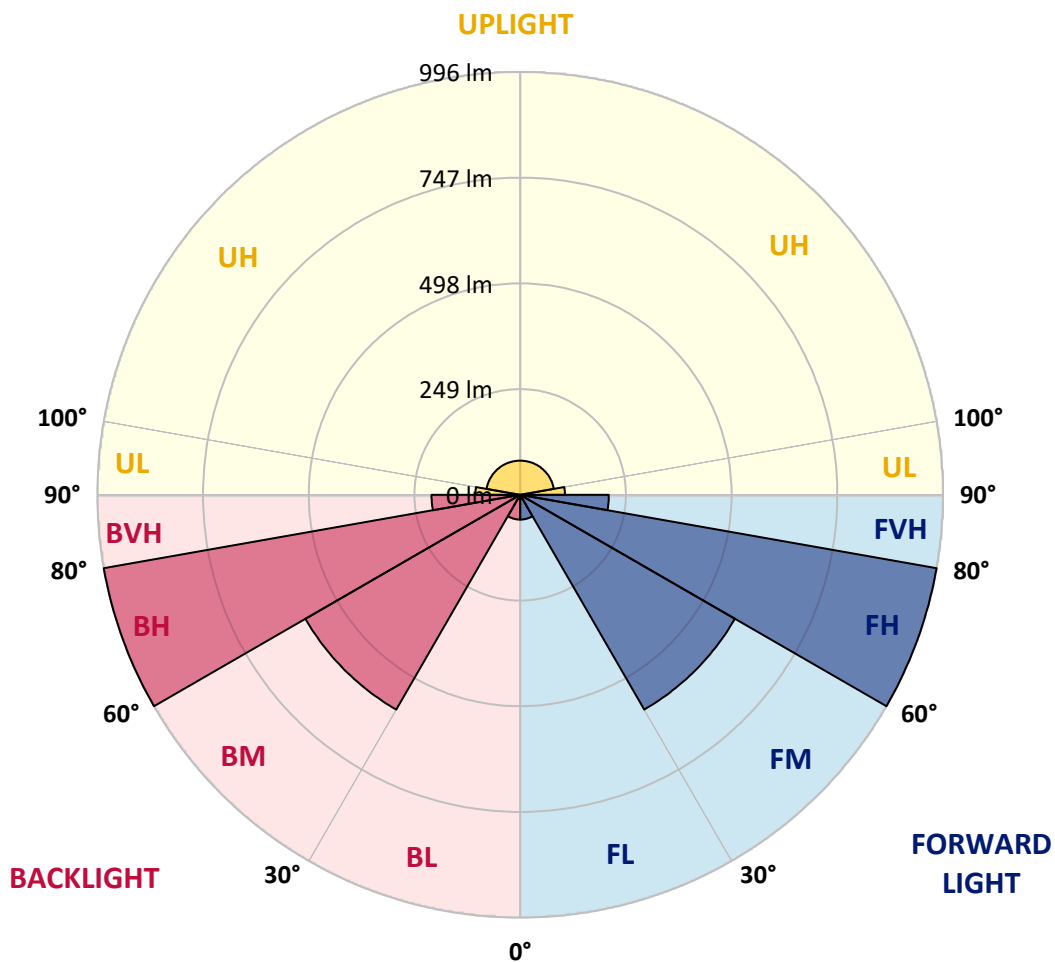
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.3	1.5			
FM (30°-60°)	584.1	15.2			
FH (60°-80°)	996.0	25.8			G1/1800
FVH (80°-90°)	208.8	5.4			G2/225
BL (0°-30°)	58.3	1.5	B0/110		
BM (30°-60°)	584.1	15.2	B1/1000		
BH (60°-80°)	996.0	25.8	B2/1000		G1/1800
BVH (80°-90°)	208.8	5.4			G2/225
UL (90°-100°)	105.5	2.7		U3/500	
UH (100°-180°)	80.5	2.1		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	71.4	71.4	71.4	72.0	72.0	72.0	71.4	71.4	71.1	71.1	71.1
5°	72.8	72.8	72.8	72.8	72.8	72.8	72.4	72.4	72.0	72.0	72.0
7.5°	75.0	75.0	75.0	75.0	75.0	74.5	74.1	73.7	73.7	73.7	73.7
10°	79.7	79.7	79.3	79.0	78.4	77.6	77.6	77.2	77.2	77.2	77.6
12.5°	89.8	89.8	88.5	86.2	83.6	82.9	82.4	83.3	84.5	85.0	85.9
15°	102.9	102.9	101.1	97.6	93.8	90.2	91.1	93.8	95.8	97.1	98.1
17.5°	118.9	118.9	116.3	111.6	105.9	103.8	103.2	106.8	110.2	112.8	114.7
20°	136.8	136.8	133.4	126.8	121.1	119.8	119.4	122.0	127.2	131.2	132.9
22.5°	158.6	159.0	153.8	145.0	139.4	136.8	136.5	139.9	148.1	153.8	155.9
25°	185.6	185.6	180.0	167.8	159.9	155.5	156.5	163.0	174.7	182.5	184.0
27.5°	215.8	214.9	207.4	194.4	183.1	176.4	178.7	188.6	203.0	214.9	216.6
30°	249.2	248.4	238.0	223.9	207.9	200.1	203.5	217.8	237.5	254.0	256.2
32.5°	288.0	287.2	274.2	256.2	234.8	224.3	231.0	251.4	275.4	296.7	299.8
35°	334.7	333.8	316.4	291.5	265.4	252.8	261.4	286.3	314.5	340.3	344.2
37.5°	383.4	383.4	365.2	333.4	299.0	283.2	292.8	321.1	354.7	380.0	384.4
40°	428.0	428.0	409.5	378.6	336.9	315.9	325.9	355.1	385.3	407.9	412.2
42.5°	468.8	470.2	453.1	421.3	376.5	352.6	358.7	384.4	415.2	440.6	444.9
45°	501.6	504.2	493.7	463.6	418.8	390.5	392.6	421.8	458.5	484.9	490.3
47.5°	541.1	541.7	534.2	505.8	463.6	432.8	434.4	468.8	509.0	536.4	539.1
50°	597.5	598.7	592.3	560.0	515.4	480.7	489.3	525.1	574.7	603.9	604.7
52.5°	659.7	661.1	656.2	626.6	575.6	542.0	555.6	597.0	646.2	670.7	669.7
55°	725.1	728.2	730.7	703.4	649.3	614.8	633.1	676.2	722.1	746.0	743.3
57.5°	797.9	800.0	806.9	782.7	734.3	700.7	723.8	767.0	813.5	836.6	832.6
60°	897.6	901.1	906.7	873.2	823.1	796.5	821.8	867.6	915.1	928.9	923.7
62.5°	988.2	992.2	1007.9	982.6	917.3	889.3	922.9	966.9	1006.6	1013.1	1004.3
65°	1076.7	1081.1	1102.4	1080.7	1015.8	976.1	1011.3	1047.6	1084.6	1089.4	1080.7
67.5°	1157.3	1169.1	1194.8	1164.7	1091.5	1046.3	1066.3	1095.5	1128.1	1122.5	1111.7
70°	1198.8	1214.0	1240.1	1219.2	1128.6	1060.2	1071.0	1079.9	1095.5	1087.6	1078.1
71°	1190.4	1206.2	1242.4	1223.1	1126.5	1050.2	1053.3	1053.6	1066.6	1050.2	1038.4
72.5°	1131.1	1147.8	1198.8	1201.4	1104.6	1021.5	1007.9	996.9	990.0	960.4	951.2
75°	946.9	968.6	1025.8	1058.5	1004.3	923.4	899.8	863.2	843.1	809.2	806.9
77.5°	736.8	751.3	806.9	856.7	841.8	789.6	763.0	727.3	706.3	679.7	664.0
80°	549.0	553.9	604.4	660.7	677.6	656.8	637.1	604.7	579.9	554.3	540.8
82.5°	390.5	399.6	445.3	506.4	546.3	547.2	533.4	497.2	469.4	442.2	431.8
85°	264.0	273.3	317.7	382.1	434.1	456.2	442.2	394.7	352.9	321.6	315.0
87.5°	165.6	174.4	206.5	264.0	332.5	366.5	350.3	291.5	244.0	215.2	209.6
90°	108.4	113.7	132.9	170.4	229.2	276.3	258.0	203.0	162.6	136.8	134.1
92.5°	75.0	76.6	88.5	110.2	152.5	190.4	177.0	136.8	106.8	88.5	85.9
95°	53.5	55.3	62.7	75.8	102.0	125.0	117.7	92.9	72.8	60.1	58.4
97.5°	39.6	41.0	47.5	56.2	72.0	84.1	79.0	65.8	53.2	43.6	42.3
100°	30.9	31.4	37.0	43.6	53.5	60.1	56.2	49.2	41.0	34.0	33.1
102.5°	24.4	24.9	29.1	34.5	41.4	46.3	43.2	37.9	31.8	26.9	26.6
105°	19.1	19.7	22.6	27.5	33.1	36.1	34.0	29.6	24.4	20.9	20.9
107.5°	15.2	15.7	17.8	21.7	26.6	29.1	27.5	23.0	19.1	16.6	16.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	12.7	12.7	14.5	17.4	21.7	24.0	22.2	18.2	15.2	13.6	13.0
112.5°	10.5	10.5	11.8	14.5	17.8	19.7	18.2	14.8	12.1	10.9	10.9
115°	8.8	9.2	9.6	12.1	15.2	16.6	15.2	12.7	10.1	9.2	9.2
117.5°	7.8	7.8	8.8	10.5	13.0	14.5	13.0	10.9	8.8	8.3	8.3
120°	6.9	6.9	7.4	8.8	11.3	12.1	11.3	9.2	7.8	7.4	7.4
122.5°	6.6	6.6	6.6	7.8	9.6	10.9	10.1	8.3	6.9	6.6	6.6
125°	6.1	6.1	6.1	6.9	8.8	9.2	8.8	7.4	6.1	6.1	6.1
127.5°	6.1	6.1	6.1	6.6	7.4	8.3	7.8	6.6	5.7	5.7	5.7
130°	5.7	5.7	5.7	6.1	6.6	6.9	6.6	6.1	5.7	5.7	5.7
132.5°	5.2	5.2	5.2	5.2	5.7	6.1	5.7	5.2	5.2	5.2	5.2
135°	4.9	4.9	4.9	4.3	4.9	5.2	4.9	4.3	4.3	4.9	4.9
137.5°	4.3	4.3	4.0	4.0	4.0	4.3	4.0	4.0	4.0	4.0	4.3
140°	4.0	4.0	3.6	3.6	3.6	3.6	3.1	3.1	3.1	3.6	3.6
142.5°	3.6	3.1	3.1	2.6	2.6	2.6	2.6	2.2	2.6	3.1	3.1
145°	2.6	2.6	2.6	2.2	2.2	2.2	1.7	1.7	2.2	2.2	2.2
147.5°	2.2	2.2	1.7	1.7	1.3	1.3	1.3	1.3	1.7	1.7	1.7
150°	1.7	1.7	1.3	1.3	0.9	0.9	0.9	0.9	1.3	1.3	1.3
152.5°	1.3	1.3	0.9	0.9	0.9	0.4	0.4	0.4	0.9	0.9	0.9
155°	0.9	0.9	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	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)