

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: P265997

Luminaire Tested: **LXF.LXT-AF24-20-D-U-5WQ-FL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-28)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-20-D-U-5WQ-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2096.4 lumens  
Efficiency: N/A  
Efficacy: 99.8 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: B1 - U3 - G2

Input Watts (W): 21  
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

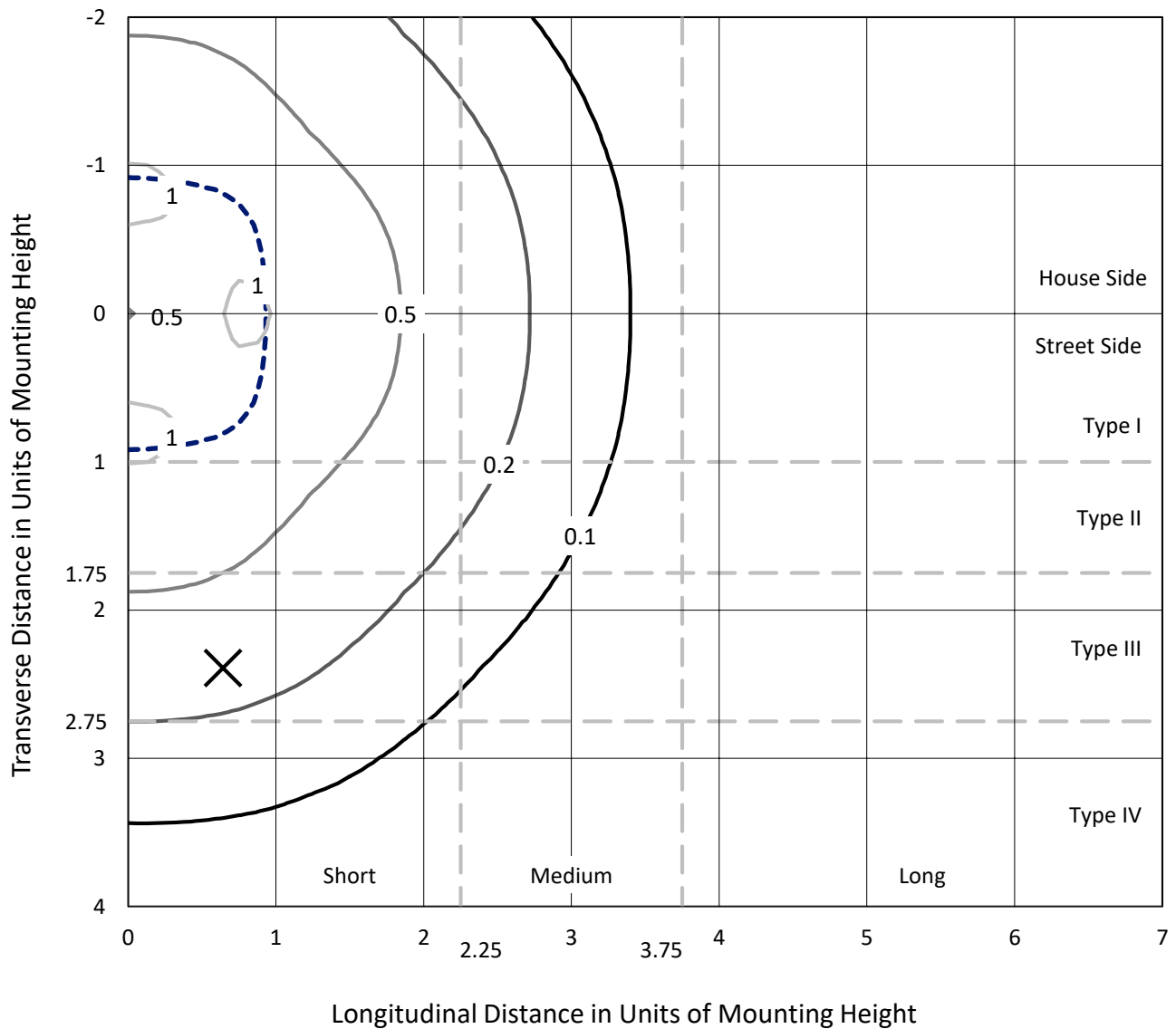


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

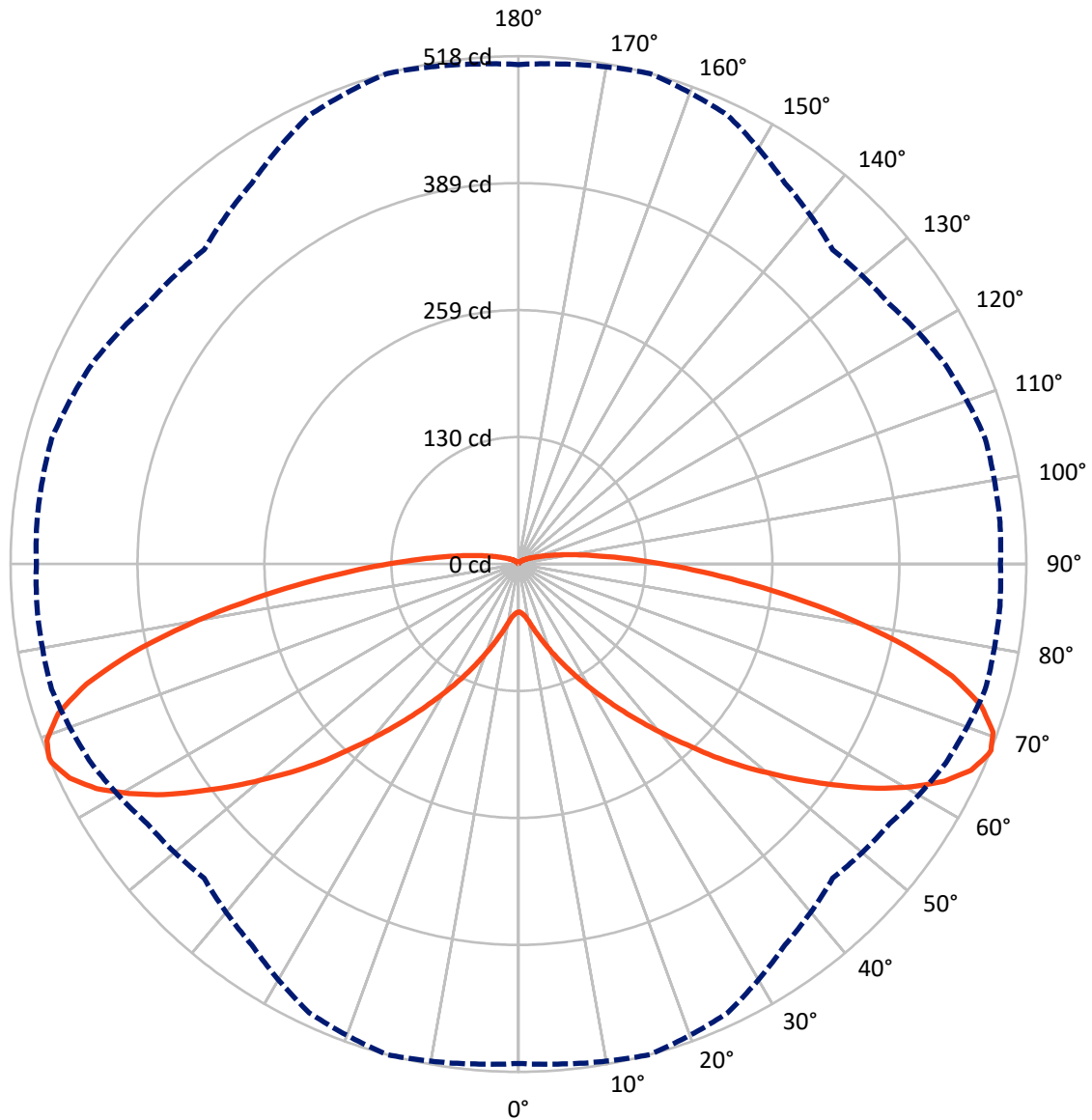


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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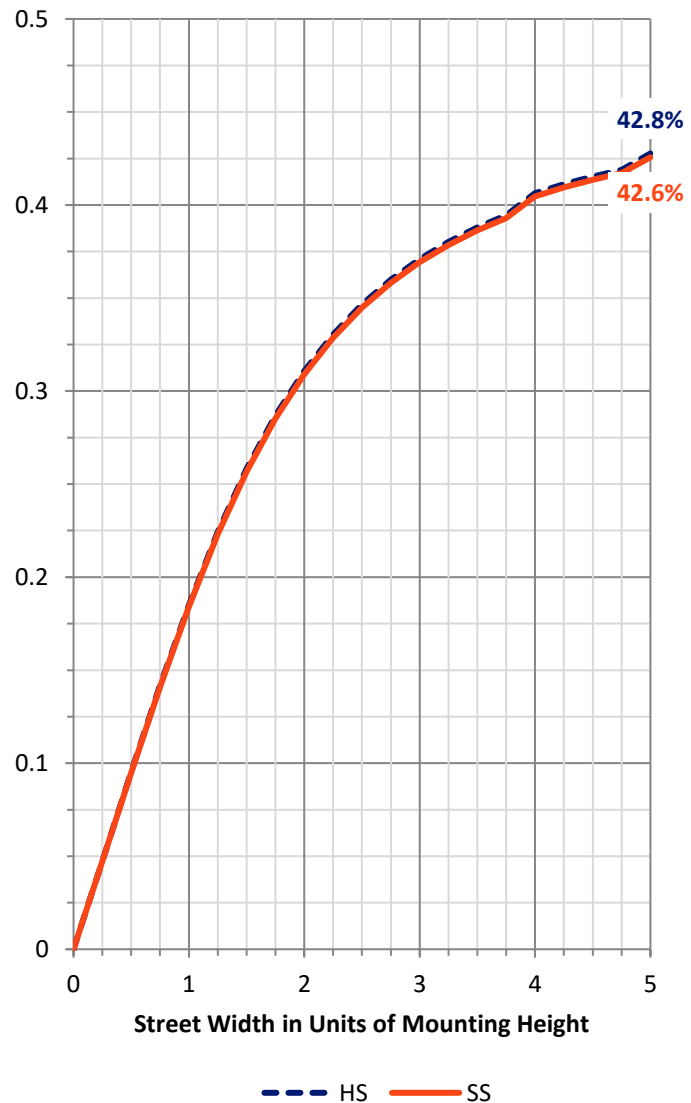
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	960.6	87.6	1048.2
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	960.6	87.6	1048.2
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	1921.1	175.3	2096.4
	% Fixture	91.6	8.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	0.2
10°-20°	21.5	1.0
20°-30°	54.8	2.6
30°-40°	113.8	5.4
40°-50°	207.8	9.9
50°-60°	339.4	16.2
60°-70°	468.2	22.3
70°-80°	452.3	21.6
80°-90°	258.2	12.3
90°-100°	103.9	5.0
100°-110°	40.8	1.9
110°-120°	17.7	0.8
120°-130°	8.1	0.4
130°-140°	3.5	0.2
140°-150°	1.1	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1921.1	91.6
0°-180°	2096.4	100.0



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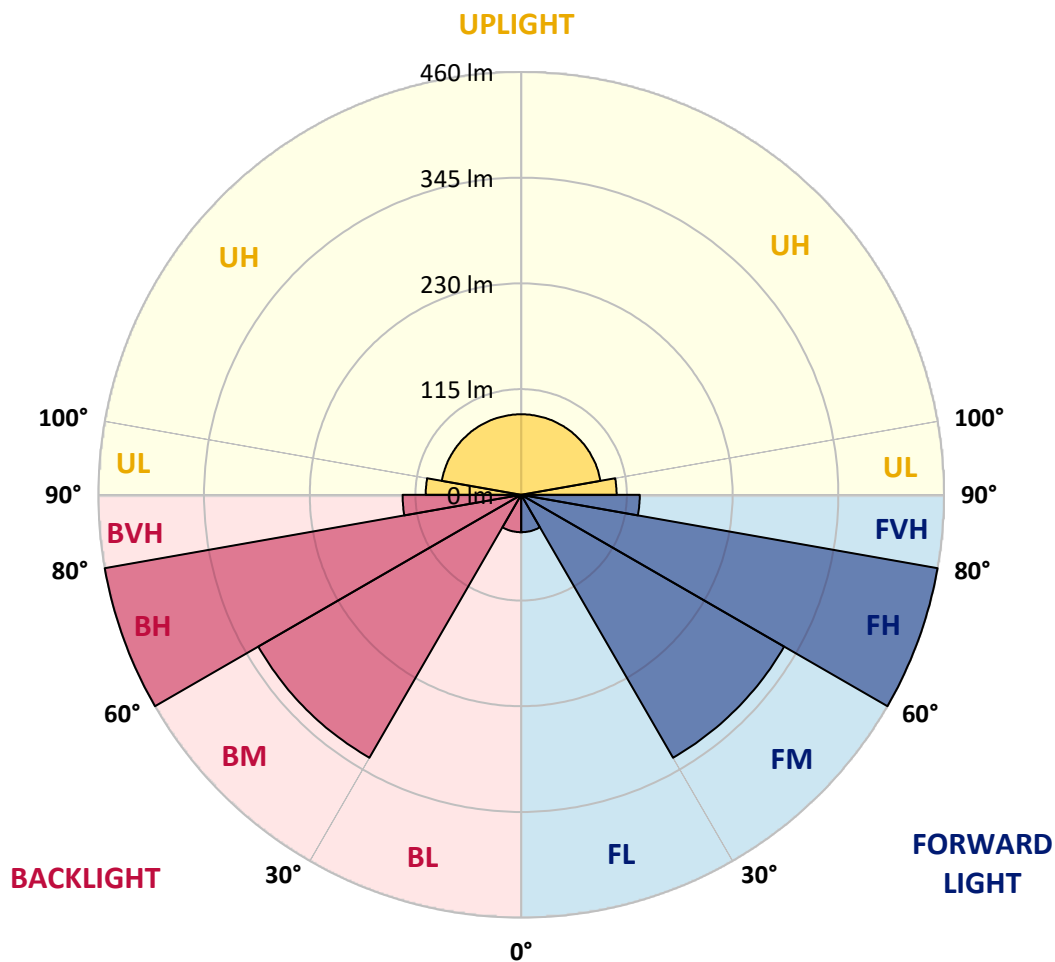
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	40.7	1.9			
FM (30°-60°)	330.5	15.8			
FH (60°-80°)	460.3	22.0			G0/660
FVH (80°-90°)	129.1	6.2			G2/225
BL (0°-30°)	40.7	1.9	B0/110		
BM (30°-60°)	330.5	15.8	B1/1000		
BH (60°-80°)	460.3	22.0	B1/500		G0/660
BVH (80°-90°)	129.1	6.2			G2/225
UL (90°-100°)	103.9	5.0		U3/500	
UH (100°-180°)	87.6	4.2		U3/500	

**BUG Rating: B1-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.3	49.3	49.3
5°	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.4	51.4	51.4	51.4
7.5°	54.6	54.6	54.6	54.6	54.6	54.4	54.4	54.4	54.2	54.2	54.0
10°	59.9	59.9	59.9	59.6	59.5	59.2	59.2	59.0	58.7	58.7	58.5
12.5°	67.0	67.0	67.0	65.7	65.4	64.9	64.9	64.9	65.1	65.1	65.4
15°	75.3	75.3	75.3	73.8	72.9	71.7	72.1	72.5	72.9	72.9	73.1
17.5°	84.9	84.9	84.4	83.0	81.6	80.8	80.3	81.0	81.6	81.9	81.9
20°	95.4	95.4	94.7	92.7	91.4	90.9	90.4	90.4	91.5	92.0	91.5
22.5°	107.3	107.0	106.4	104.1	102.6	101.4	101.4	101.1	102.6	103.6	103.3
25°	121.1	120.6	119.1	116.5	114.9	113.4	113.1	113.1	115.5	117.0	116.8
27.5°	136.0	135.3	133.3	130.4	127.7	125.9	126.1	127.1	129.3	132.0	132.0
30°	152.3	151.8	148.7	145.7	141.5	139.1	139.5	142.2	145.0	148.0	148.2
32.5°	170.1	169.3	165.6	161.9	156.6	153.4	154.4	157.6	161.9	166.1	166.4
35°	190.1	189.2	184.8	179.7	172.8	168.8	170.1	175.0	180.7	185.8	186.0
37.5°	211.7	210.3	205.1	199.5	190.4	185.6	187.9	194.3	201.0	206.7	207.4
40°	233.7	233.7	228.0	220.5	209.6	203.7	206.4	214.9	223.5	228.7	230.0
42.5°	258.4	258.7	252.2	243.4	230.4	223.7	226.8	236.7	247.3	253.0	254.1
45°	284.4	285.1	280.4	267.9	253.0	244.8	248.4	260.9	272.6	278.7	279.6
47.5°	312.3	313.1	308.6	294.1	277.1	268.4	272.1	286.3	299.9	305.8	306.6
50°	341.6	342.3	336.9	322.8	303.5	292.8	297.6	313.4	327.5	333.4	334.7
52.5°	372.1	372.8	367.5	353.5	331.1	319.1	324.8	341.4	357.3	362.2	362.6
55°	402.8	403.8	399.1	383.8	360.0	346.1	352.7	370.2	387.2	392.0	393.5
57.5°	433.1	434.1	432.1	414.7	389.1	373.5	381.1	400.1	417.0	420.8	421.0
60°	461.3	462.9	461.5	444.5	416.8	399.7	407.7	427.8	444.5	447.6	448.2
62.5°	486.3	487.2	487.9	472.6	441.2	422.7	431.5	452.4	468.7	470.6	470.4
65°	503.3	505.1	507.5	492.7	461.1	441.2	450.3	470.6	485.8	487.2	486.3
67.5°	509.7	512.4	517.7	504.5	473.2	452.4	461.3	480.2	493.2	493.9	492.2
68°	509.7	512.2	518.3	505.3	474.5	453.6	462.3	481.0	493.3	493.3	492.0
70°	502.3	505.7	513.8	503.9	474.8	454.6	462.0	478.1	488.6	486.7	484.5
72.5°	478.7	482.6	493.7	487.7	463.6	445.6	450.9	462.7	467.6	463.6	461.5
75°	438.1	442.1	457.1	456.2	439.2	424.4	427.6	432.8	432.8	425.5	421.8
77.5°	386.7	390.6	405.5	411.5	403.2	392.2	392.2	391.0	385.1	373.1	369.7
80°	325.8	329.1	344.9	357.7	356.3	350.1	347.1	339.5	329.0	315.8	311.0
82.5°	264.9	268.6	283.9	296.8	305.2	302.8	297.8	285.8	270.2	255.6	252.8
85°	210.1	211.2	227.4	243.8	253.4	254.4	249.1	233.7	217.7	203.3	200.0
87.5°	163.8	165.5	178.7	195.4	207.1	208.0	202.8	187.2	171.7	158.7	155.9
90°	125.9	128.5	139.1	154.1	165.5	167.9	162.6	148.7	134.0	122.3	119.8
92.5°	97.0	98.8	108.2	121.1	131.4	134.4	129.7	117.5	104.8	94.4	93.6
95°	76.3	76.7	84.1	95.2	103.8	107.8	103.3	93.1	81.9	73.7	72.7
97.5°	59.0	59.9	65.9	75.3	83.3	85.9	82.5	73.8	64.8	56.9	56.1
100°	45.9	46.5	51.8	60.1	66.7	69.1	66.5	59.2	50.8	44.6	44.6
102.5°	36.4	36.7	41.1	48.0	53.2	55.3	53.4	47.5	40.2	35.3	35.6
105°	29.3	29.3	32.6	38.8	43.8	45.4	43.7	38.4	32.1	28.2	28.2
107.5°	23.4	23.7	26.4	31.6	36.2	37.6	36.2	31.4	26.0	23.0	23.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	19.5	19.5	21.3	26.0	30.0	31.4	30.0	25.6	21.1	18.8	18.8
112.5°	16.1	16.1	17.4	21.3	25.0	26.4	25.0	21.1	17.2	15.6	15.6
115°	13.7	13.7	14.6	17.7	20.9	22.1	20.9	17.7	14.5	13.5	13.5
117.5°	11.8	11.8	12.4	14.8	17.4	18.8	17.4	14.6	12.2	11.5	11.5
120°	10.3	10.3	10.5	12.2	14.6	15.6	14.6	12.2	10.3	9.8	9.8
122.5°	8.9	8.9	8.9	10.3	12.2	12.9	11.9	10.3	8.9	8.7	8.7
125°	7.9	7.6	7.9	8.7	10.2	11.0	10.2	8.7	7.6	7.6	7.6
127.5°	6.9	6.9	6.6	7.1	8.4	8.9	8.4	7.1	6.6	6.6	6.6
130°	6.0	6.0	6.0	6.3	6.6	7.1	6.9	6.3	6.0	6.0	6.0
132.5°	5.3	5.3	5.0	5.3	5.5	5.7	5.5	5.0	5.0	5.3	5.3
135°	4.5	4.5	4.5	4.3	4.3	4.5	4.3	4.3	4.5	4.5	4.5
137.5°	4.1	4.1	3.9	3.7	3.4	3.4	3.4	3.7	3.9	3.9	4.1
140°	3.4	3.4	3.1	2.9	2.6	2.6	2.6	2.9	3.1	3.4	3.4
142.5°	2.9	2.9	2.6	2.2	1.9	1.6	1.9	2.2	2.3	2.6	2.6
145°	2.2	2.2	1.9	1.6	1.4	1.2	1.2	1.6	1.9	2.2	2.2
147.5°	1.6	1.6	1.4	1.2	1.0	0.7	0.7	1.2	1.4	1.6	1.6
150°	1.2	1.2	1.0	0.7	0.4	0.4	0.4	0.7	1.0	1.0	1.2
152.5°	0.7	0.7	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.7	0.7
155°	0.2	0.4	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.4	0.4
157.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
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)