

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: P254796

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254796  
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  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 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: 2468.4 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 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

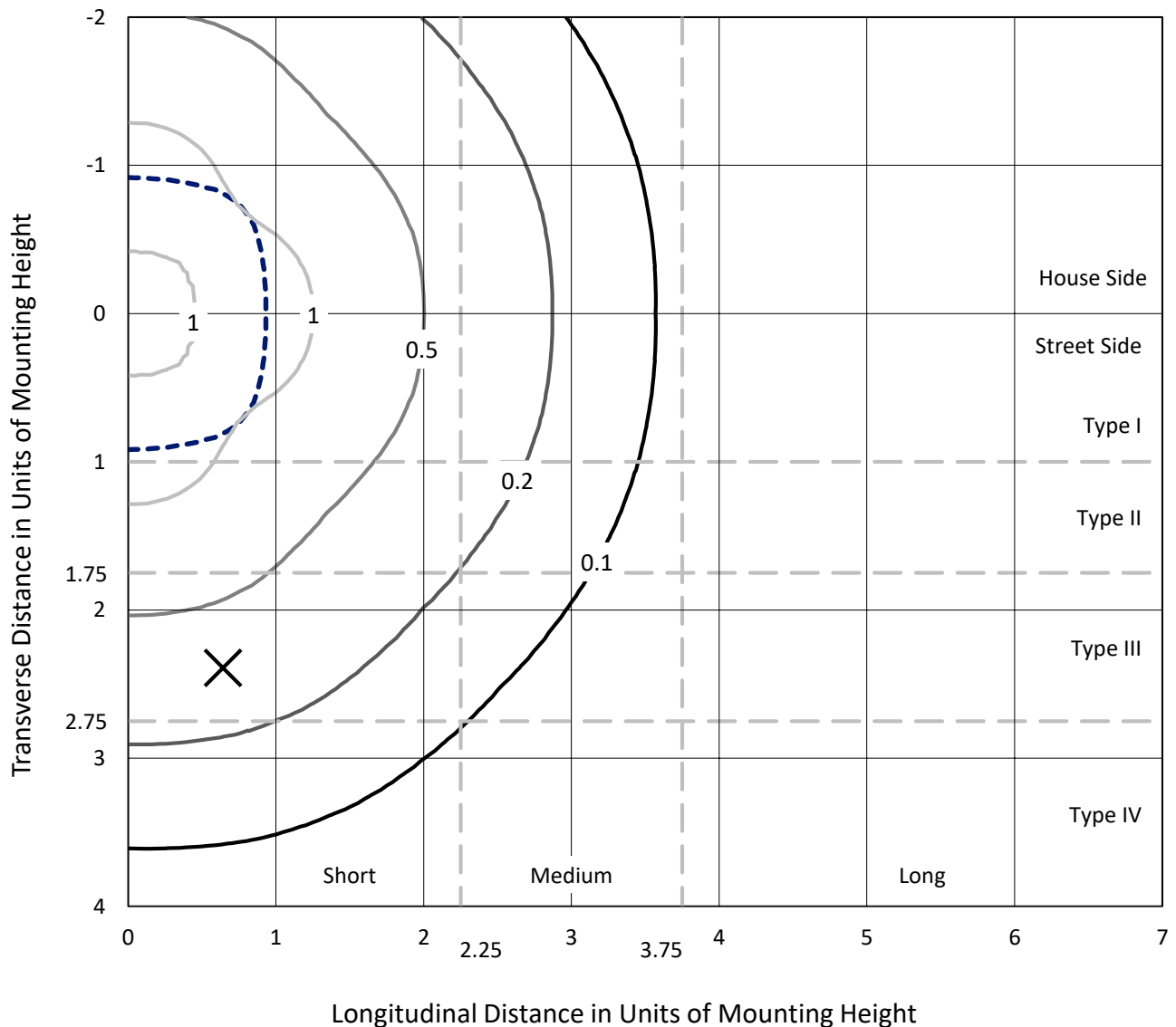


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

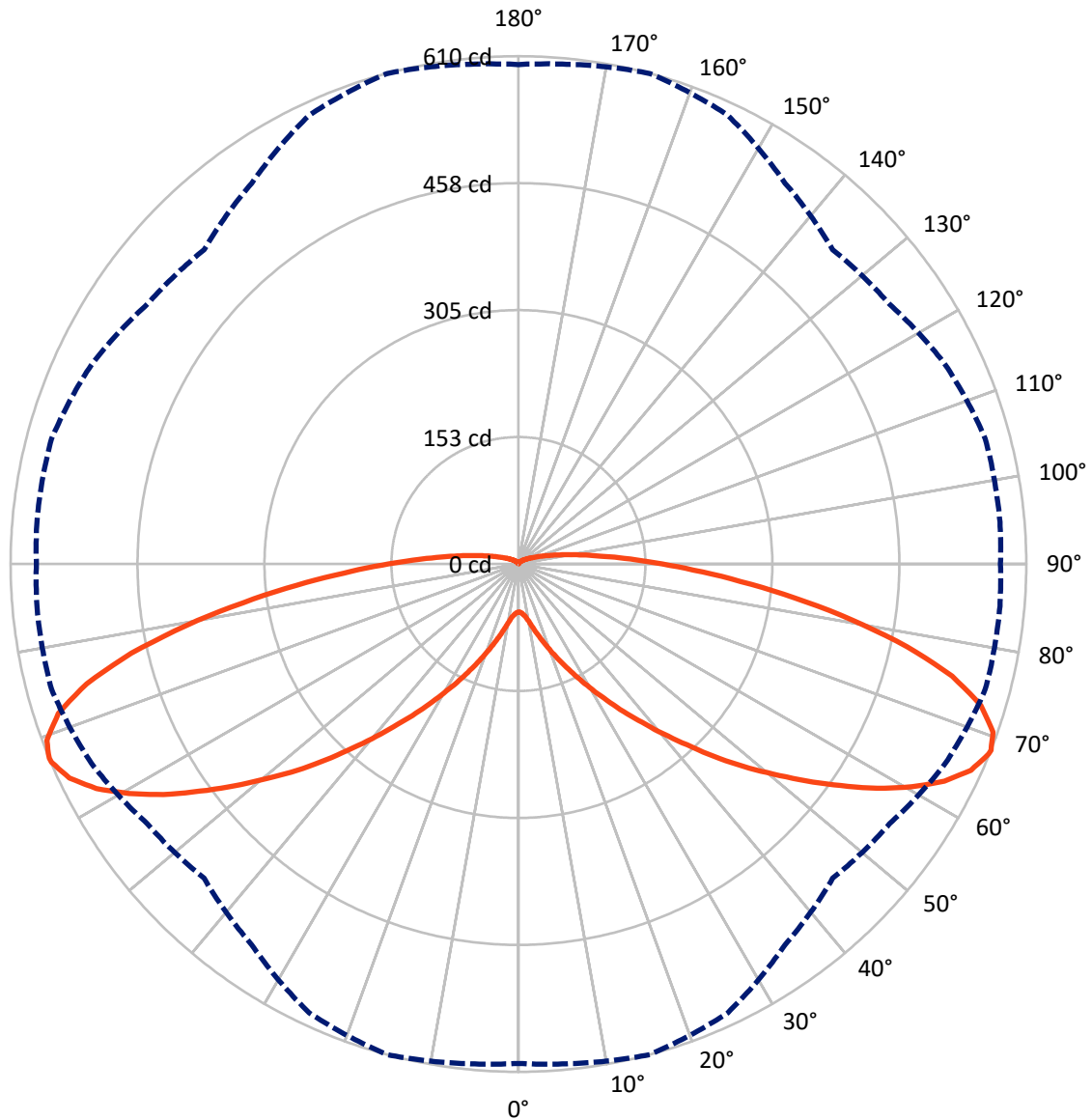


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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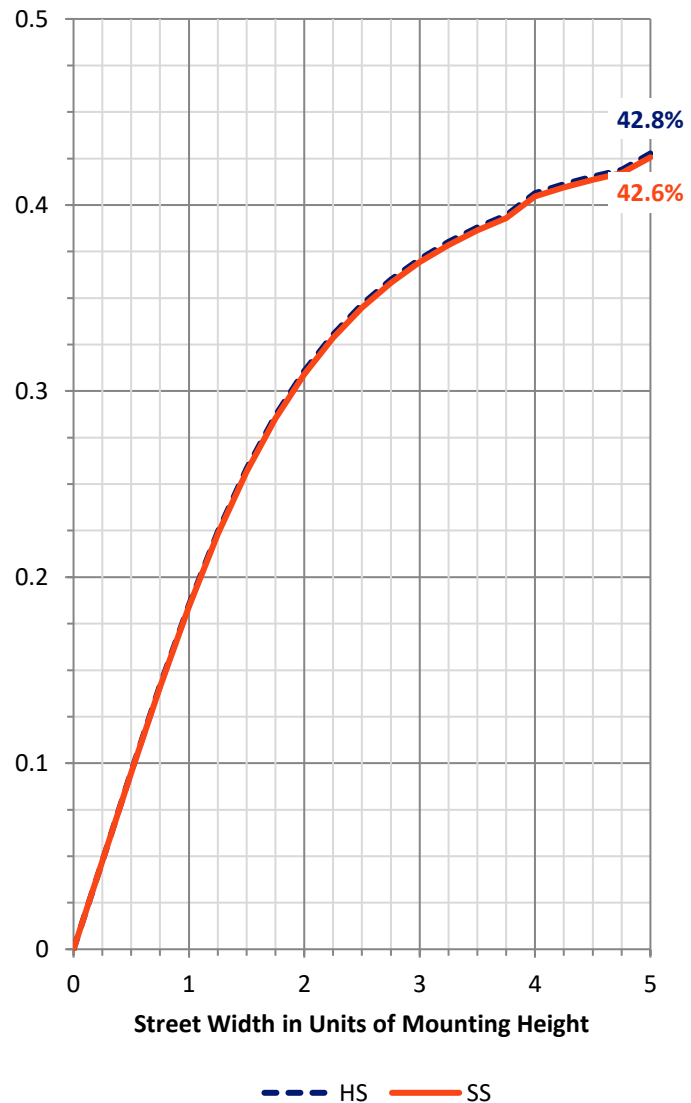
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1131.0	103.2	1234.2
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	1131.0	103.2	1234.2
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	2262.0	206.5	2468.4
	% Fixture	91.6	8.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	0.2
10°-20°	25.3	1.0
20°-30°	64.5	2.6
30°-40°	134.0	5.4
40°-50°	244.6	9.9
50°-60°	399.6	16.2
60°-70°	551.2	22.3
70°-80°	532.6	21.6
80°-90°	304.0	12.3
90°-100°	122.4	5.0
100°-110°	48.1	1.9
110°-120°	20.8	0.8
120°-130°	9.5	0.4
130°-140°	4.2	0.2
140°-150°	1.3	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2262.0	91.6
0°-180°	2468.4	100.0



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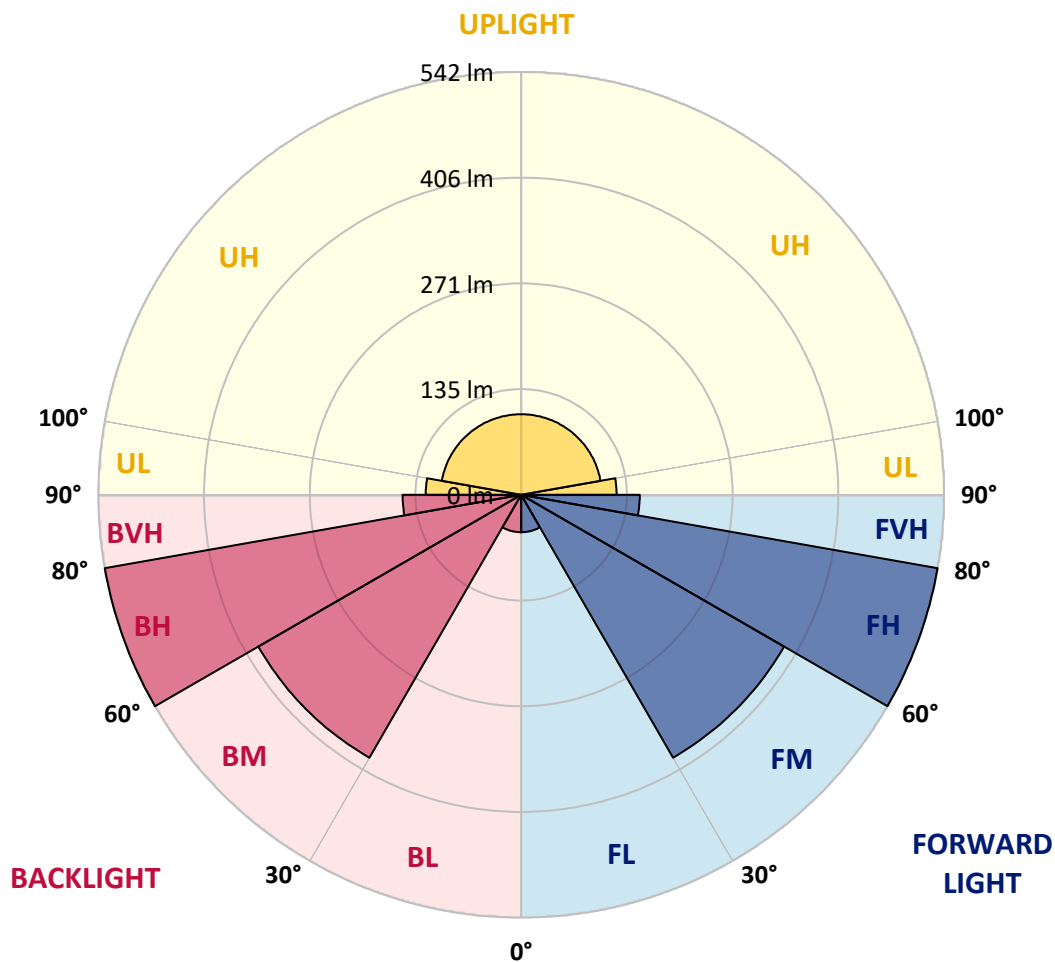
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.0	1.9			
FM (30°-60°)	389.1	15.8			
FH (60°-80°)	541.9	22.0			G0/660
FVH (80°-90°)	152.0	6.2			G2/225
BL (0°-30°)	48.0	1.9	B0/110		
BM (30°-60°)	389.1	15.8	B1/1000		
BH (60°-80°)	541.9	22.0	B2/1000		G0/660
BVH (80°-90°)	152.0	6.2			G2/225
UL (90°-100°)	122.4	5.0		U3/500	
UH (100°-180°)	103.2	4.2		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°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.1	58.1	58.1
5°	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.5	60.5	60.5	60.5
7.5°	64.3	64.3	64.3	64.3	64.3	64.0	64.0	64.0	63.8	63.8	63.5
10°	70.6	70.6	70.6	70.3	70.0	69.8	69.8	69.5	69.2	69.2	68.8
12.5°	78.8	78.8	78.8	77.3	77.0	76.5	76.5	76.5	76.8	76.8	77.0
15°	88.7	88.7	88.7	87.0	85.8	84.4	85.0	85.2	85.8	85.8	86.1
17.5°	99.9	99.9	99.3	97.7	96.0	95.1	94.5	95.4	96.0	96.6	96.6
20°	112.3	112.3	111.5	109.3	107.5	107.0	106.4	106.4	107.8	108.4	107.8
22.5°	126.4	125.9	125.3	122.5	120.8	119.4	119.4	119.2	120.8	121.9	121.6
25°	142.6	142.0	140.3	137.2	135.2	133.5	133.3	133.3	136.1	137.8	137.5
27.5°	160.1	159.2	156.9	153.5	150.5	148.2	148.5	149.7	152.1	155.3	155.3
30°	179.2	178.7	175.0	171.7	166.5	163.8	164.3	167.4	170.8	174.2	174.4
32.5°	200.4	199.3	195.1	190.6	184.3	180.7	181.8	185.5	190.6	195.6	195.9
35°	223.8	222.7	217.7	211.4	203.6	198.8	200.4	206.1	212.9	218.8	219.0
37.5°	249.3	247.6	241.3	234.9	224.1	218.5	221.4	228.6	236.6	243.4	244.2
40°	275.3	275.3	268.4	259.7	246.7	240.0	243.1	253.0	263.1	269.3	270.7
42.5°	304.3	304.6	297.0	286.5	271.3	263.4	267.1	278.7	291.0	297.8	299.2
45°	334.8	335.6	330.0	315.3	297.8	288.3	292.5	307.1	321.0	328.1	329.2
47.5°	367.5	368.7	363.4	346.4	326.3	315.9	320.4	337.1	353.1	360.0	361.1
50°	402.2	403.1	396.6	379.9	357.4	344.6	350.4	369.0	385.7	392.4	394.0
52.5°	438.1	438.9	432.8	416.1	389.8	375.7	382.5	402.0	420.6	426.6	426.9
55°	474.2	475.4	470.0	451.9	423.7	407.6	415.2	435.9	455.9	461.6	463.3
57.5°	509.8	511.0	508.7	488.4	458.2	439.8	448.6	471.2	490.9	495.4	495.7
60°	543.2	545.1	543.4	523.3	490.6	470.6	479.9	503.6	523.3	527.0	527.6
62.5°	572.5	573.7	574.5	556.4	519.5	497.7	508.1	532.7	551.9	554.1	553.8
65°	592.5	594.8	597.6	580.1	542.9	519.5	530.2	554.1	571.9	573.7	572.5
67.5°	600.2	603.2	609.5	593.9	557.2	532.7	543.2	565.5	580.7	581.5	579.6
68°	600.2	603.0	610.3	595.1	558.6	534.1	544.3	566.3	580.9	580.9	579.3
70°	591.4	595.4	605.0	593.4	558.9	535.2	544.0	562.9	575.3	573.1	570.5
72.5°	563.7	568.2	581.2	574.2	545.9	524.8	531.0	544.8	550.4	545.9	543.4
75°	515.8	520.6	538.4	537.3	517.2	499.7	503.3	509.5	509.5	501.0	496.5
77.5°	455.3	459.8	477.4	484.5	474.9	461.9	461.9	460.4	453.4	439.3	435.3
80°	383.6	387.6	406.2	421.1	419.5	412.1	408.8	399.8	387.3	371.7	366.1
82.5°	311.9	316.2	334.2	349.4	359.4	356.5	350.6	336.4	318.1	301.0	297.6
85°	247.2	248.7	267.6	287.1	298.4	299.5	293.3	275.3	256.4	239.4	235.5
87.5°	192.8	194.8	210.3	230.1	243.9	245.0	238.9	220.4	202.1	186.9	183.5
90°	148.2	151.3	163.8	181.5	194.8	197.6	191.4	175.0	157.8	143.9	141.2
92.5°	114.4	116.3	127.4	142.6	154.7	158.4	152.7	138.3	123.4	111.2	110.1
95°	89.8	90.3	99.1	112.1	122.2	127.1	121.6	109.6	96.6	86.6	85.5
97.5°	69.5	70.6	77.6	88.7	98.0	101.1	97.1	87.0	76.2	66.9	66.1
100°	53.9	54.7	61.0	70.9	78.5	81.3	78.2	69.8	59.8	52.5	52.5
102.5°	42.9	43.2	48.3	56.5	62.7	65.2	62.9	55.9	47.5	41.5	41.7
105°	34.5	34.5	38.4	45.7	51.7	53.4	51.4	45.2	37.8	33.3	33.3
107.5°	27.6	27.9	31.1	37.2	42.7	44.3	42.7	37.0	30.5	27.1	27.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	22.9	22.9	25.2	30.5	35.3	37.0	35.3	30.2	24.9	22.0	22.0
112.5°	18.9	18.9	20.6	25.2	29.4	31.1	29.4	24.9	20.4	18.3	18.3
115°	16.1	16.1	17.2	20.9	24.6	26.0	24.6	20.9	17.0	15.9	15.9
117.5°	13.8	13.8	14.7	17.5	20.6	22.0	20.6	17.2	14.4	13.5	13.5
120°	12.2	12.2	12.4	14.4	17.2	18.3	17.2	14.4	12.2	11.6	11.6
122.5°	10.4	10.4	10.4	12.2	14.4	15.2	14.1	12.2	10.4	10.1	10.1
125°	9.3	9.0	9.3	10.1	11.9	13.0	11.9	10.1	9.0	9.0	9.0
127.5°	8.2	8.2	7.9	8.5	9.9	10.4	9.9	8.5	7.9	7.9	7.9
130°	7.1	7.1	7.1	7.4	7.9	8.5	8.2	7.4	7.1	7.1	7.1
132.5°	6.2	6.2	5.9	6.2	6.4	6.8	6.4	5.9	5.9	6.2	6.2
135°	5.3	5.3	5.3	5.1	5.1	5.3	5.1	5.1	5.3	5.3	5.3
137.5°	4.8	4.8	4.5	4.2	4.0	4.0	4.0	4.2	4.5	4.5	4.8
140°	4.0	4.0	3.7	3.4	3.1	3.1	3.1	3.4	3.7	4.0	4.0
142.5°	3.4	3.4	3.1	2.6	2.3	1.9	2.3	2.6	2.9	3.1	3.1
145°	2.6	2.6	2.3	1.9	1.7	1.4	1.4	1.9	2.3	2.6	2.6
147.5°	1.9	1.9	1.7	1.4	1.1	0.8	0.8	1.4	1.7	1.9	1.9
150°	1.4	1.4	1.1	0.8	0.6	0.6	0.6	0.8	1.1	1.1	1.4
152.5°	0.8	0.8	0.6	0.6	0.3	0.3	0.3	0.6	0.6	0.8	0.8
155°	0.3	0.6	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.6	0.6
157.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
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)