

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: P253994

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-T2U  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO  
COMPETITIVE OFFERINGS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9016.2 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 96  
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

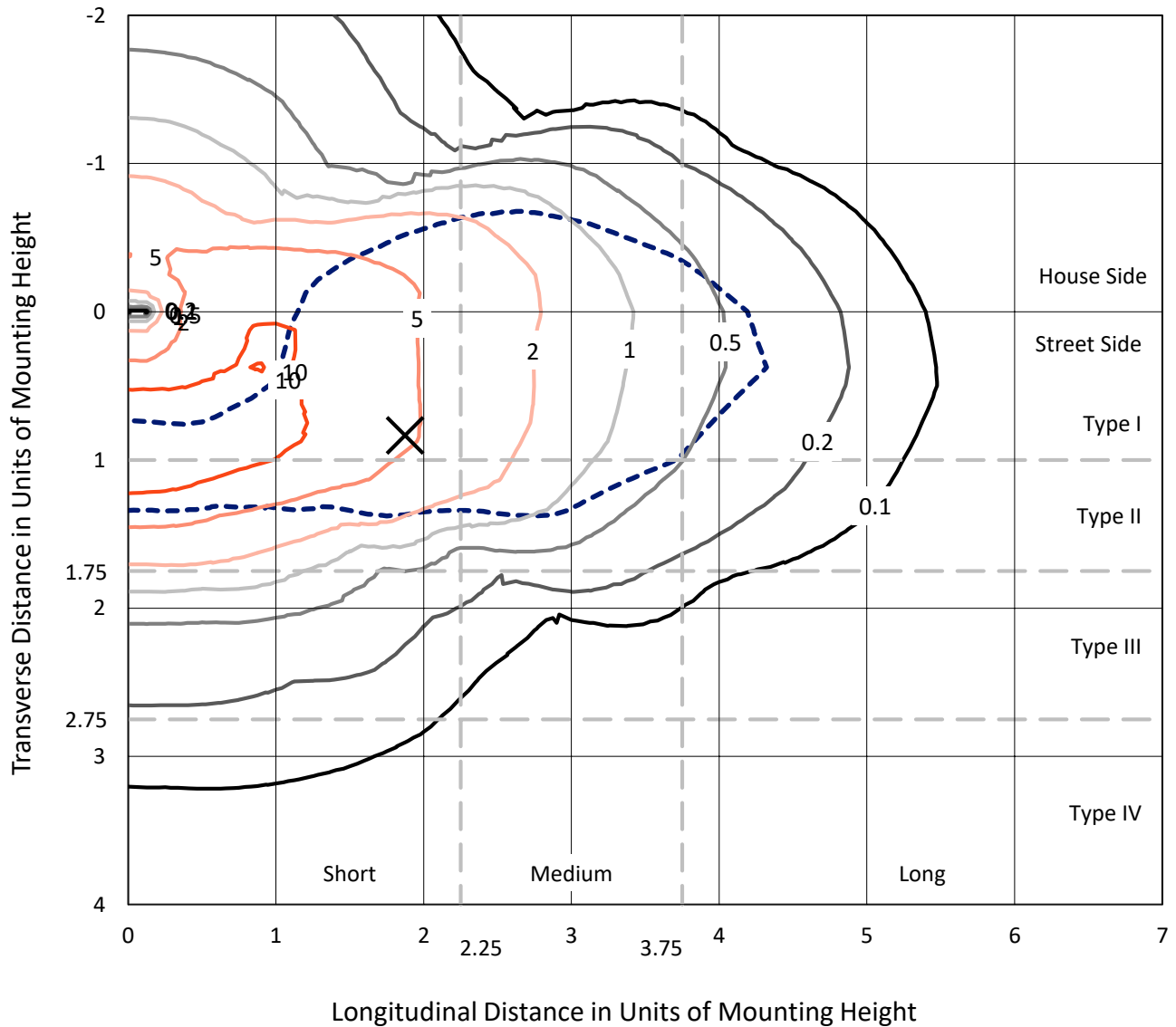


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

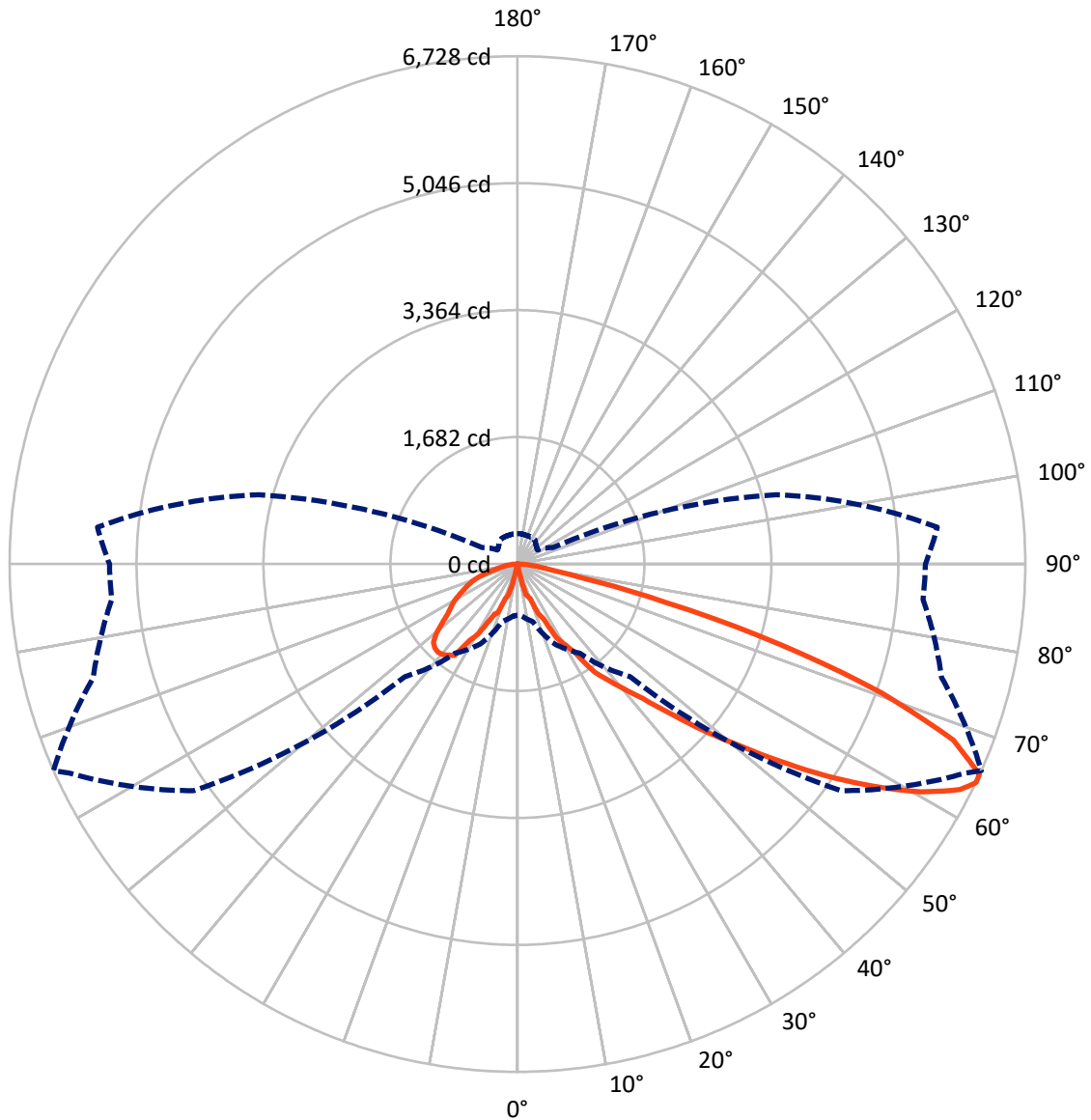


Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical



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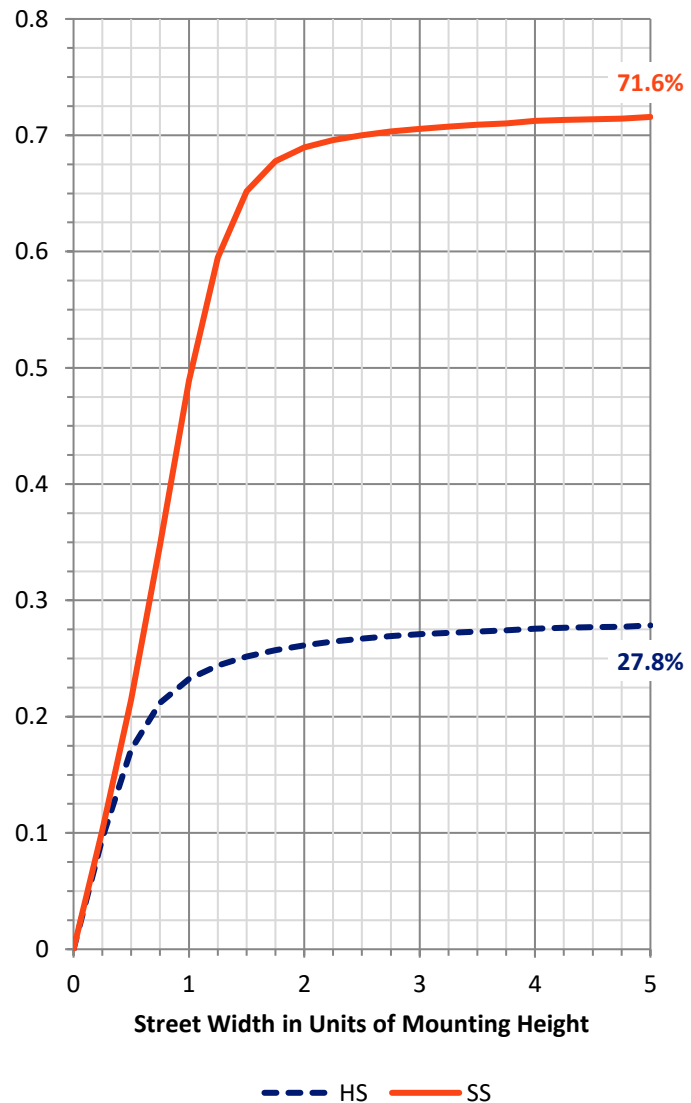
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2539.4	0.0	2539.4
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	6476.8	0.0	6476.8
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	9016.2	0.0	9016.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	99.5	1.1
20°-30°	386.3	4.3
30°-40°	955.5	10.6
40°-50°	1797.3	19.9
50°-60°	2384.4	26.4
60°-70°	2146.7	23.8
70°-80°	1096.2	12.2
80°-90°	143.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9016.2	100.0
0°-180°	9016.2	100.0



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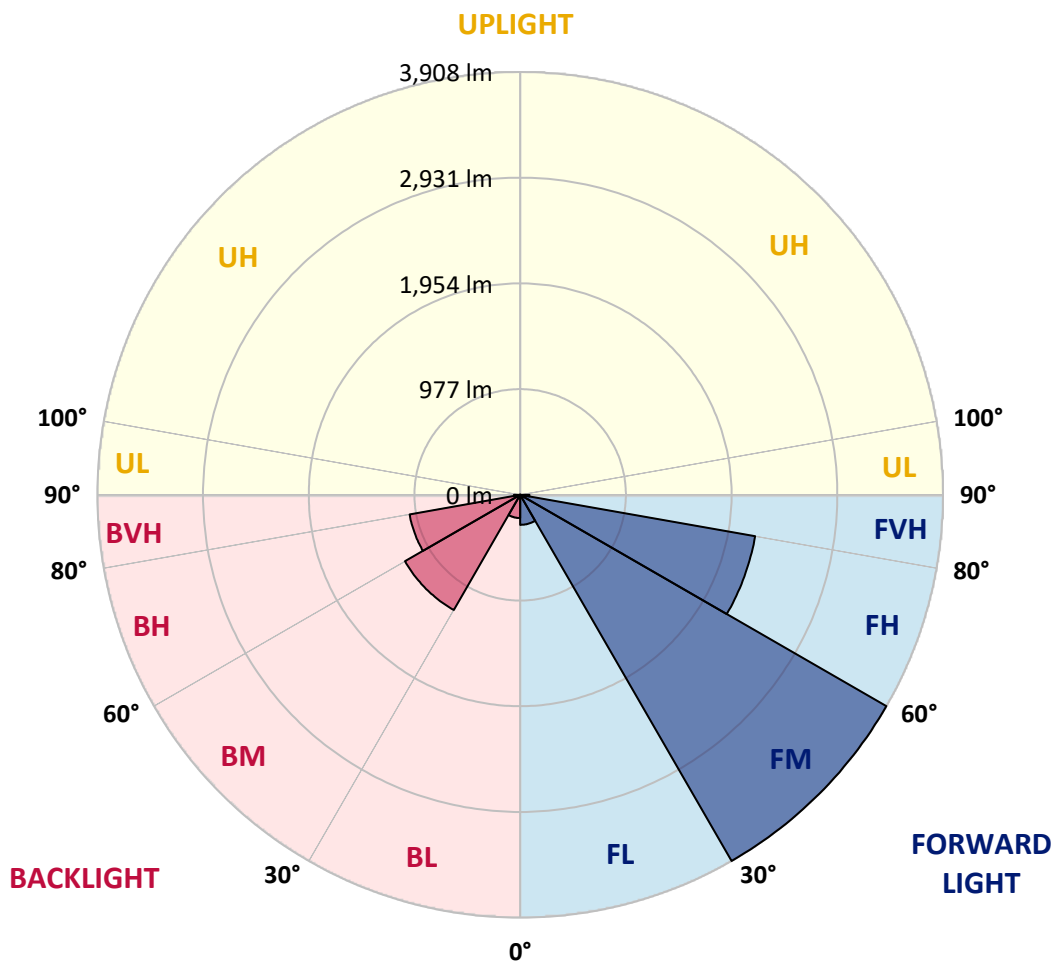
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.6	3.1			
FM	(30°-60°)	3908.1	43.3			
FH	(60°-80°)	2205.2	24.5			G2/5000
FVH	(80°-90°)	85.9	1.0			G1/100
BL	(0°-30°)	214.9	2.4	B1/500		
BM	(30°-60°)	1229.1	13.6	B2/2500		
BH	(60°-80°)	1037.6	11.5	B3/2500		G3/2500
BVH	(80°-90°)	57.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	4.1	3.1	4.1	5.1	5.1	4.1	3.1	1.0	1.0	0.0	0.0
5°	192.3	188.2	130.9	51.1	26.6	14.3	7.2	3.1	2.0	1.0	1.0
7.5°	200.5	200.5	200.5	202.5	198.5	192.3	32.7	7.2	6.1	2.0	1.0
10°	204.6	203.6	201.5	203.6	201.5	201.5	197.4	25.6	23.5	8.2	6.1
12.5°	384.6	382.6	370.3	239.4	209.7	209.7	210.7	171.9	172.9	55.2	142.2
15°	402.0	401.0	395.9	397.9	385.7	230.2	323.3	414.3	418.4	290.5	328.4
17.5°	447.0	439.9	423.5	418.4	413.3	471.6	452.1	451.1	451.1	338.6	357.0
20°	691.5	682.3	673.1	544.2	454.2	600.5	555.5	487.9	492.0	576.9	611.7
22.5°	794.8	787.7	773.4	743.7	775.4	647.5	679.2	711.0	715.0	753.9	695.6
25°	1082.3	1088.4	1012.7	867.5	935.0	806.1	870.5	784.6	806.1	819.4	860.3
27.5°	1400.4	1378.9	1355.4	1233.7	1063.9	1133.4	959.5	1026.0	1105.8	1117.1	1047.5
30°	1783.0	1753.3	1566.1	1552.8	1361.5	1275.6	1240.8	1259.3	1237.8	1173.3	1174.3
32.5°	2249.6	2232.2	2150.3	1898.6	1722.6	1462.8	1510.9	1380.0	1392.2	1525.2	1547.7
35°	2898.1	2868.5	2477.7	2342.7	1993.7	1877.1	1689.9	1744.1	1758.5	1732.9	1703.2
37.5°	3641.8	3615.2	3308.3	2759.0	2410.2	2142.2	2085.9	1989.6	1951.8	1956.9	1967.1
40°	4080.7	4062.2	3791.2	3332.9	2831.6	2549.3	2366.2	2234.2	2174.9	2249.6	2228.1
42.5°	4394.7	4368.1	4212.6	3765.6	3406.5	3125.2	2704.8	2530.9	2434.7	2595.3	2522.7
45°	4582.9	4543.0	4466.3	4060.2	3877.1	3777.9	3160.0	2876.6	2805.0	2925.7	2872.5
47.5°	4525.6	4460.2	4508.2	4267.9	4259.7	4354.8	3691.9	3275.6	3273.5	3316.5	3276.6
50°	4170.7	4123.6	4266.8	4293.4	4497.0	4812.1	4340.5	3724.7	3749.2	3732.8	3686.8
52.5°	3513.9	3524.2	3751.3	3970.2	4476.5	5084.2	4982.9	4253.5	4321.0	4141.0	4065.3
55°	2833.7	2868.5	3112.9	3386.1	4152.3	5149.6	5541.4	4837.6	4950.2	4537.9	4421.3
57.5°	2150.3	2197.4	2488.9	2693.5	3505.8	4923.6	5872.9	5387.0	5551.7	4916.4	4752.7
60°	1368.7	1397.4	1756.4	2100.2	2614.8	4158.4	5950.6	5946.5	6129.7	5301.0	5047.3
62.5°	885.9	902.2	1054.7	1514.0	1817.8	2903.2	5696.9	6396.7	6583.9	5675.4	5300.0
64°	678.2	692.5	789.7	1168.2	1442.4	2110.4	5235.6	6551.2	6728.2	5817.6	5394.1
65°	589.2	598.4	670.0	952.4	1227.5	1655.1	4781.4	6555.3	6725.1	5858.5	5410.5
67.5°	490.0	493.1	519.7	602.5	867.5	922.7	3017.8	6068.2	6227.9	5770.6	5280.6
70°	444.0	450.1	484.9	491.0	670.0	638.3	1124.2	4993.1	5122.0	5534.3	4992.1
72.5°	382.6	389.7	434.8	471.6	518.6	506.4	568.8	3506.8	3643.9	4791.6	4663.7
75°	312.0	319.2	362.1	416.3	434.8	397.9	447.0	1801.4	2031.7	3541.6	4173.7
77.5°	247.6	254.7	288.5	327.3	391.8	304.8	357.0	690.5	825.5	2200.5	3104.8
80°	175.9	180.0	215.8	247.6	295.6	263.9	259.8	377.5	396.9	1093.5	1563.1
82.5°	108.4	111.5	144.2	165.7	197.4	263.9	186.2	259.8	266.0	459.3	478.7
85°	60.4	62.4	87.0	94.1	109.5	134.0	124.8	142.2	146.3	204.6	120.7
87.5°	7.2	9.2	20.5	22.5	20.5	22.5	22.5	20.5	21.5	18.4	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	1.0	1.0	1.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
5°	1.0	1.0	2.0	2.0	3.1	3.1	4.1	6.1	6.1	6.1	7.2
7.5°	1.0	1.0	2.0	3.1	4.1	10.2	51.1	177.0	199.5	206.6	206.6
10°	6.1	6.1	6.1	7.2	20.5	199.5	224.0	231.2	234.3	234.3	236.3
12.5°	156.5	156.5	83.9	32.7	187.2	233.2	238.3	243.5	246.5	249.6	253.7
15°	330.4	331.4	322.2	316.1	333.5	251.6	254.7	410.2	427.6	434.8	435.8
17.5°	359.1	357.0	359.1	457.3	481.8	376.4	420.4	449.1	452.1	453.2	453.2
20°	644.5	641.4	509.4	483.9	494.1	625.0	453.2	454.2	509.4	591.3	616.8
22.5°	691.5	685.4	648.6	706.9	648.6	638.3	575.9	595.4	613.8	611.7	610.7
25°	871.6	854.2	715.0	730.4	821.4	646.5	691.5	574.9	585.1	588.2	589.2
27.5°	1072.1	1051.6	1005.6	859.3	837.8	808.1	647.5	600.5	667.0	669.0	664.9
30°	1145.7	1118.1	1051.6	1075.1	896.1	762.1	620.9	635.3	601.5	600.5	601.5
32.5°	1556.9	1506.8	1377.9	1165.1	946.2	689.5	611.7	566.7	604.6	614.8	614.8
35°	1703.2	1637.7	1526.2	1461.8	907.4	669.0	536.0	547.3	549.3	547.3	548.3
37.5°	1895.5	1809.6	1708.3	1489.4	935.0	582.1	511.5	507.4	547.3	554.4	557.5
40°	2119.7	2037.8	1943.6	1511.9	838.8	535.0	490.0	507.4	518.6	520.7	522.7
42.5°	2404.0	2290.5	2164.7	1507.8	714.0	513.5	485.9	485.9	499.2	495.1	495.1
45°	2728.3	2583.1	2372.3	1469.0	591.3	494.1	475.7	468.5	474.6	466.5	466.5
47.5°	3092.5	2932.9	2527.8	1408.6	520.7	476.7	466.5	444.0	458.3	456.2	456.2
50°	3478.1	3311.4	2673.1	1272.6	476.7	461.4	442.9	437.8	456.2	452.1	451.1
52.5°	3848.4	3704.2	2783.6	1087.4	438.8	447.0	434.8	432.7	449.1	445.0	444.0
55°	4203.4	4119.5	2921.6	930.9	405.1	421.5	431.7	431.7	441.9	437.8	437.8
57.5°	4549.2	4565.5	3085.3	823.5	379.5	401.0	427.6	426.6	432.7	429.6	430.7
60°	4901.1	5007.4	3249.0	722.2	359.1	377.5	419.4	417.4	420.4	419.4	420.4
62.5°	5234.5	5409.5	3447.4	592.3	336.6	359.1	406.1	408.2	407.1	410.2	410.2
64°	5405.4	5584.4	3545.6	516.6	323.3	347.8	395.9	399.0	397.9	404.1	403.0
65°	5471.9	5648.8	3580.4	471.6	315.1	340.6	388.7	392.8	391.8	399.0	395.9
67.5°	5453.5	5573.1	3538.5	388.7	293.6	321.2	369.3	376.4	373.4	383.6	376.4
70°	5260.1	5160.9	3206.0	338.6	276.2	299.7	344.7	353.9	348.8	359.1	346.8
72.5°	4898.0	4454.0	2495.1	293.6	256.8	278.2	317.1	326.3	322.2	326.3	313.0
75°	4096.0	3435.2	1459.8	254.7	231.2	248.6	284.4	293.6	289.5	280.3	275.2
77.5°	2848.0	2171.8	576.9	223.0	207.7	217.9	242.4	250.6	244.5	227.1	224.0
80°	1358.5	968.7	277.2	193.3	180.0	186.2	198.5	201.5	200.5	183.1	174.9
82.5°	416.3	317.1	191.3	155.5	146.3	144.2	156.5	152.4	150.4	138.1	108.4
85°	94.1	93.1	107.4	96.2	92.1	82.9	94.1	91.0	89.0	66.5	57.3
87.5°	3.1	6.1	5.1	13.3	14.3	11.3	18.4	19.4	14.3	6.1	1.0
90°	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)