

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: P236832

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2R-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-190-D-U-T2R-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22683.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

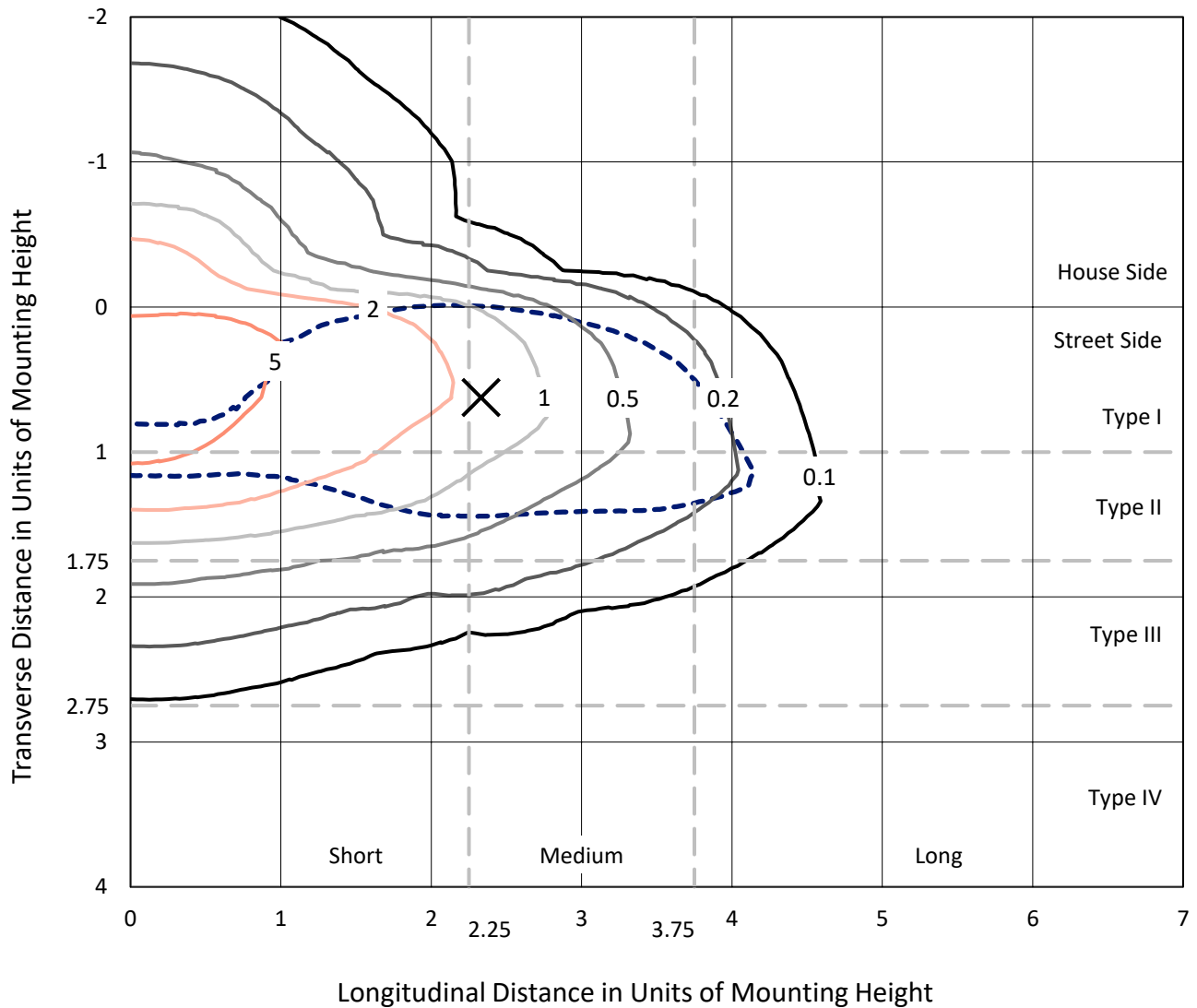
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

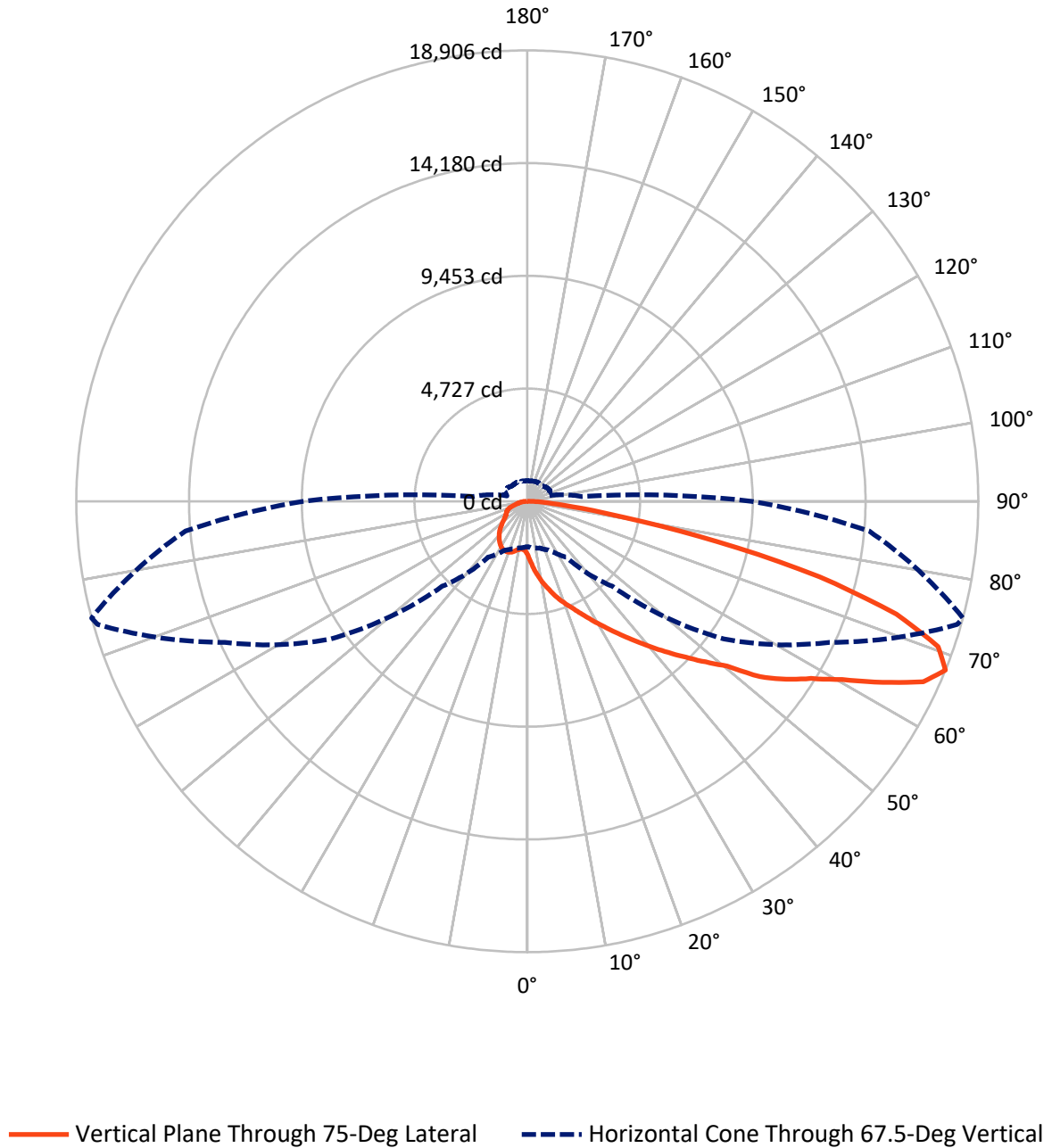
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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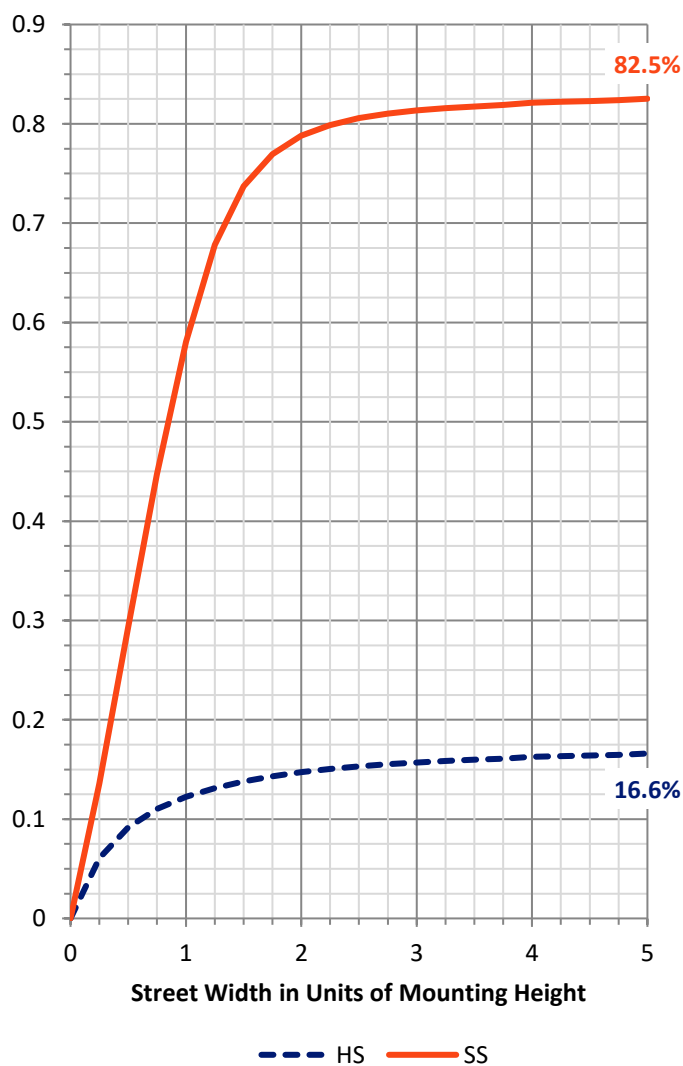
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3873.5	0.0	3873.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	18809.9	0.0	18809.9
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	22683.3	0.0	22683.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.1	1.2
10°-20°	954.3	4.2
20°-30°	1740.5	7.7
30°-40°	2856.9	12.6
40°-50°	4131.5	18.2
50°-60°	4869.0	21.5
60°-70°	4731.4	20.9
70°-80°	2630.0	11.6
80°-90°	505.7	2.2
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°	22683.3	100.0
0°-180°	22683.3	100.0

**Coefficient of Utilization**



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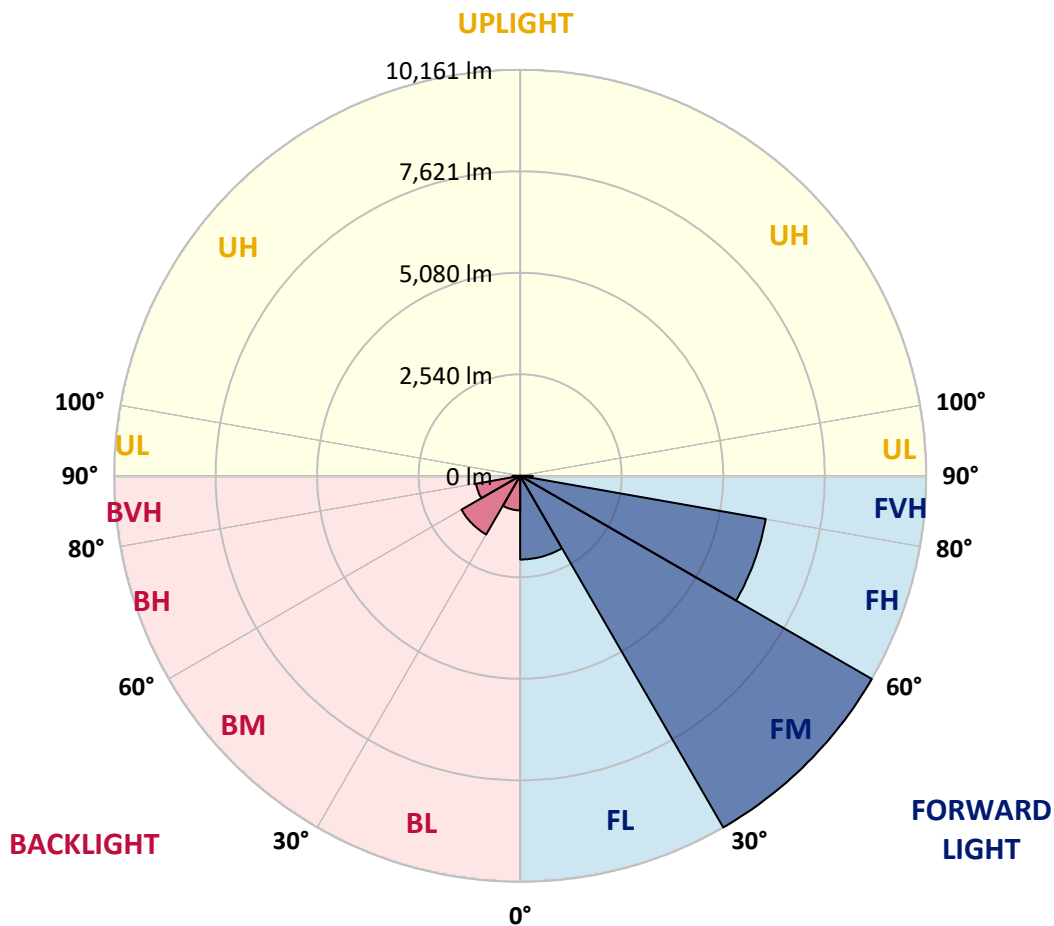
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.3	9.2			
FM (30°-60°)	10160.9	44.8			
FH (60°-80°)	6239.9	27.5			G3/7500
FVH (80°-90°)	314.7	1.4			G3/500
BL (0°-30°)	864.6	3.8	B2/1000		
BM (30°-60°)	1696.4	7.5	B2/2500		
BH (60°-80°)	1121.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	191.0	0.8			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7
2.5°	3186.6	3196.1	3177.2	3134.4	3072.8	2959.0	2859.5	2684.0	2527.5	2508.5	2342.5
5°	3746.2	3755.7	3732.0	3679.8	3613.4	3490.1	3352.6	3125.0	2873.6	2826.2	2475.3
7.5°	4130.2	4135.0	4106.5	4054.4	4002.2	3878.9	3741.4	3485.4	3177.2	3139.2	2646.0
10°	4457.4	4466.9	4429.1	4395.8	4338.9	4215.7	4073.4	3803.1	3485.4	3433.2	2821.5
12.5°	4761.0	4770.4	4746.7	4718.3	4699.2	4585.5	4429.1	4106.5	3765.1	3708.3	3030.1
15°	4964.8	4974.3	4979.1	5016.9	5040.6	4960.2	4803.6	4452.8	4068.6	4016.5	3276.6
17.5°	4907.9	4931.6	5002.8	5140.3	5287.3	5292.1	5164.0	4794.2	4367.3	4310.5	3528.0
20°	4742.0	4761.0	4846.3	5055.0	5344.2	5510.2	5500.6	5140.3	4647.2	4585.5	3760.3
22.5°	4879.5	4903.2	4903.2	5031.3	5315.8	5624.0	5747.2	5481.7	4926.9	4870.0	3992.8
25°	5467.5	5481.7	5382.1	5330.0	5434.3	5718.8	5951.2	5851.6	5268.4	5202.0	4244.0
27.5°	6287.9	6264.2	6140.8	5932.2	5818.4	5894.3	6131.4	6202.5	5662.0	5581.3	4504.9
30°	7103.5	7089.3	6947.0	6667.2	6411.2	6249.9	6330.5	6515.4	6088.7	5993.9	4756.2
32.5°	7866.8	7843.1	7686.7	7359.4	7070.2	6771.6	6615.1	6800.0	6544.0	6434.9	5036.0
35°	8568.7	8507.2	8350.5	8009.1	7710.4	7426.0	7041.9	7070.2	7037.1	6923.3	5344.2
37.5°	9137.8	9090.4	8919.6	8602.0	8284.2	8013.9	7610.9	7378.5	7568.2	7459.1	5699.8
40°	9640.4	9588.3	9412.8	9095.1	8801.1	8545.0	8227.3	7753.1	8165.7	8042.3	6098.2
42.5°	10019.8	9981.8	9839.6	9526.7	9242.1	9009.7	8853.3	8227.3	8786.8	8668.3	6534.5
45°	10223.7	10185.8	10109.9	9858.6	9597.8	9417.6	9431.8	8791.6	9436.5	9337.0	7051.3
47.5°	9972.3	10000.8	10067.2	10019.8	9858.6	9773.2	9948.6	9374.9	10162.1	10067.2	7610.9
50°	9299.0	9327.5	9593.0	9920.2	9977.1	10081.5	10413.4	10048.2	10930.3	10854.4	8303.1
52.5°	7644.1	7800.6	8535.6	9317.9	9853.8	10285.3	10930.3	11048.9	12224.8	12224.8	9526.7
55°	5775.8	5913.2	6752.6	8118.3	9374.9	10304.4	11309.7	11726.9	13158.9	13178.0	10166.8
57.5°	4680.3	4765.7	5178.3	6577.1	8369.6	10067.2	11760.1	12310.1	13936.7	14022.0	10991.9
60°	3798.3	3845.7	4116.1	5088.1	6980.1	9427.0	12082.6	13144.8	15046.3	15164.8	12044.6
62.5°	3053.8	3101.3	3281.5	3864.7	5476.9	8227.3	12025.6	14012.5	16525.8	16720.2	13424.4
65°	2437.3	2489.6	2608.1	2968.5	4059.1	6738.3	11442.4	14458.3	18057.4	18247.1	14339.7
67.5°	1901.5	1948.9	2029.6	2266.7	2859.5	5040.6	10062.4	13988.8	18745.1	18906.2	14387.1
70°	1436.9	1460.6	1526.9	1678.7	2043.8	3347.8	7876.4	12414.5	18128.6	18275.6	13438.8
72.5°	1114.3	1109.6	1147.5	1223.3	1427.4	2304.6	5221.0	10095.7	16027.9	16179.6	11466.1
75°	910.4	905.8	929.5	953.2	1033.7	1545.9	3082.3	7601.3	12936.1	12646.9	8602.0
77.5°	768.2	763.5	787.2	791.9	825.1	1066.9	1754.4	5002.8	8630.4	8132.5	4846.3
80°	649.6	644.9	673.4	682.9	706.6	782.4	1010.0	2707.7	4334.2	4106.5	2314.1
82.5°	488.4	507.4	559.5	583.2	611.8	578.5	625.9	1195.0	2010.6	1920.4	1005.3
85°	237.1	279.8	422.1	469.5	502.7	365.2	426.7	564.4	905.8	863.0	407.7
87.5°	80.7	71.1	251.3	298.8	327.2	166.0	237.1	312.9	374.6	341.4	128.1
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°	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7
2.5°	2271.4	2200.3	2095.9	2015.3	1963.2	1920.4	1901.5	1896.7	1887.4	1882.5	1882.5
5°	2318.8	2190.7	2029.6	1944.2	1920.4	1901.5	1911.1	1915.8	1915.8	1915.8	1915.8
7.5°	2389.9	2209.8	2015.3	1958.5	1953.7	1953.7	1982.2	1996.3	2005.9	2005.9	2005.9
10°	2484.8	2243.0	2039.0	1991.6	2005.9	2015.3	2048.5	2067.5	2077.0	2081.7	2086.5
12.5°	2612.8	2314.1	2086.5	2048.5	2067.5	2072.2	2095.9	2105.4	2114.9	2119.6	2119.6
15°	2783.5	2418.5	2162.3	2114.9	2119.6	2114.9	2114.9	2105.4	2100.7	2100.7	2110.2
17.5°	2959.0	2518.0	2228.8	2162.3	2143.3	2105.4	2077.0	2053.3	2039.0	2029.6	2034.3
20°	3134.4	2608.1	2266.7	2171.8	2119.6	2058.0	2005.9	1972.6	1953.7	1934.8	1944.2
22.5°	3309.9	2693.5	2280.9	2143.3	2067.5	1977.4	1920.4	1868.4	1825.6	1797.2	1801.9
25°	3504.3	2788.3	2280.9	2110.2	1996.3	1901.5	1830.4	1745.1	1683.3	1659.6	1669.2
27.5°	3698.8	2868.9	2257.2	2048.5	1915.8	1821.0	1716.6	1617.0	1579.2	1564.8	1569.6
30°	3893.1	2930.6	2205.1	1972.6	1830.4	1726.1	1588.5	1522.2	1474.8	1436.9	1441.5
32.5°	4087.6	2973.2	2133.9	1877.8	1740.3	1607.5	1493.7	1417.8	1332.5	1285.1	1289.8
35°	4310.5	3006.4	2048.5	1783.0	1640.7	1503.2	1417.8	1294.5	1204.5	1166.6	1157.0
37.5°	4542.8	3030.1	1958.5	1678.7	1541.1	1427.4	1342.0	1190.3	1104.8	1052.7	1048.1
40°	4794.2	3039.6	1849.3	1569.6	1446.3	1380.0	1242.4	1128.5	981.5	948.4	948.4
42.5°	5092.9	3034.9	1740.3	1460.6	1342.0	1270.8	1171.3	1119.2	991.1	957.8	938.9
45°	5434.3	3034.9	1621.7	1332.5	1237.7	1133.3	1090.6	1057.4	972.1	986.3	995.8
47.5°	5823.2	3025.4	1479.5	1228.2	1152.2	1062.2	1038.5	967.4	934.1	943.7	953.2
50°	6359.0	3039.6	1351.4	1142.9	1090.6	1014.8	986.3	948.4	934.1	938.9	934.1
52.5°	7103.5	2992.2	1228.2	1090.6	1043.2	943.7	943.7	938.9	943.7	938.9	938.9
55°	7511.2	2887.8	1138.1	1062.2	1010.0	910.4	929.5	938.9	948.4	943.7	943.7
57.5°	8089.8	2816.7	1066.9	1043.2	991.1	901.0	920.0	938.9	943.7	938.9	938.9
60°	8772.7	2769.2	1019.5	1048.1	976.9	901.0	924.7	938.9	934.1	929.5	929.5
62.5°	9564.5	2750.4	986.3	1062.2	962.6	905.8	924.7	938.9	920.0	915.1	915.1
65°	9863.3	2579.6	943.7	1071.8	972.1	905.8	920.0	924.7	901.0	896.3	891.4
67.5°	9403.3	2285.6	882.0	1052.7	1000.6	905.8	905.8	901.0	872.6	867.7	858.3
70°	8374.2	1896.7	787.2	991.1	1019.5	910.4	886.7	863.0	834.6	834.6	815.6
72.5°	6856.9	1493.7	663.9	882.0	1005.3	924.7	848.8	815.6	782.4	782.4	763.5
75°	4941.1	1114.3	531.1	735.0	943.7	920.0	801.4	758.7	720.8	716.0	692.3
77.5°	2816.7	782.4	431.5	573.8	839.3	896.3	758.7	692.3	649.6	635.5	621.2
80°	1446.3	526.4	350.9	450.4	697.1	829.9	725.5	616.4	569.0	545.3	521.6
82.5°	687.6	350.9	270.3	331.9	526.4	725.5	682.9	531.1	479.0	450.4	422.1
85°	308.2	208.6	180.2	213.4	374.6	564.4	602.2	436.3	374.6	469.5	346.2
87.5°	99.5	94.8	94.8	99.5	180.2	246.6	441.0	322.5	298.8	246.6	208.6
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)