

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: P1210911

Luminaire Tested: **ARCH4-110-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18457 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 112.6
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

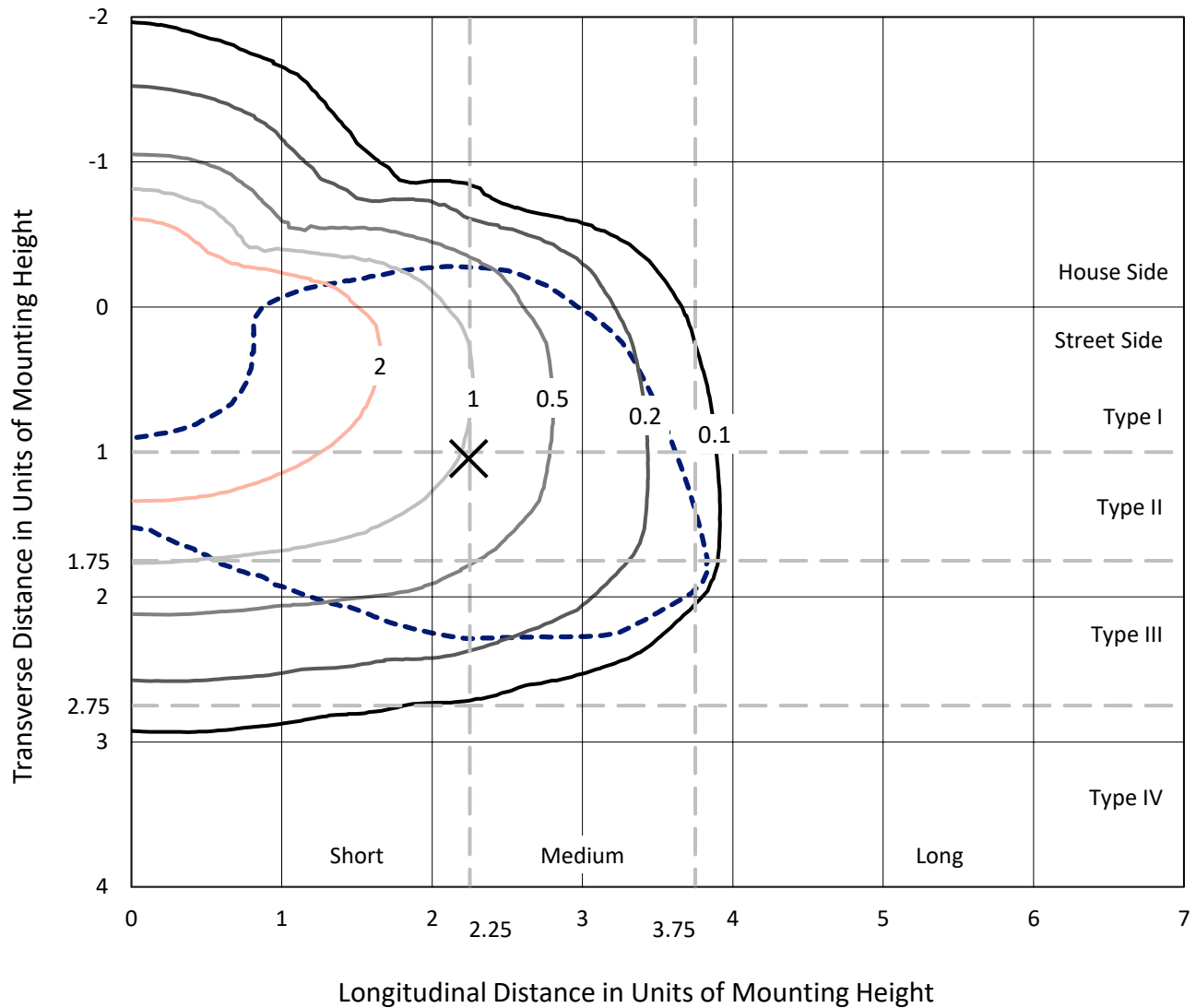


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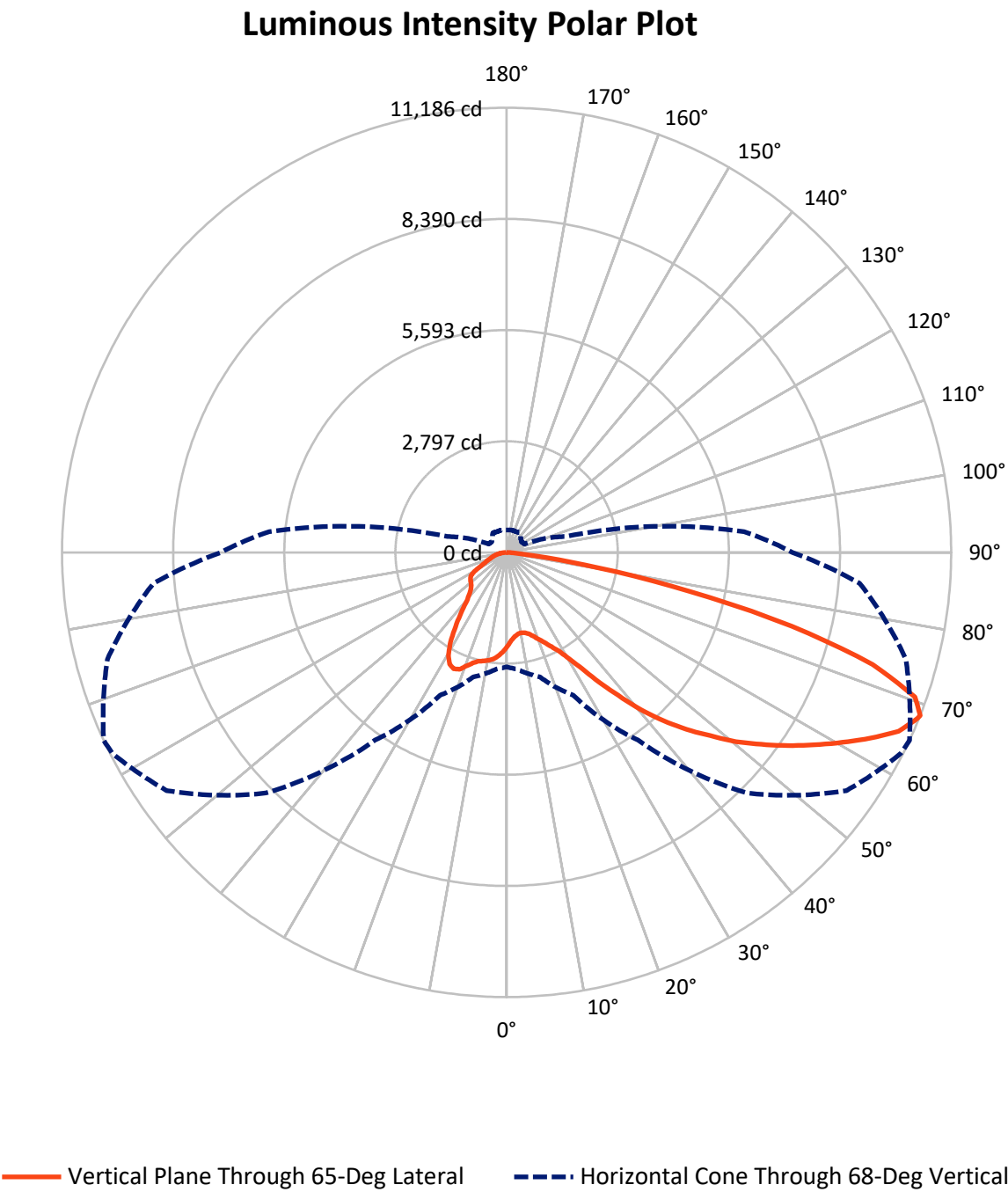
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Short - N/A

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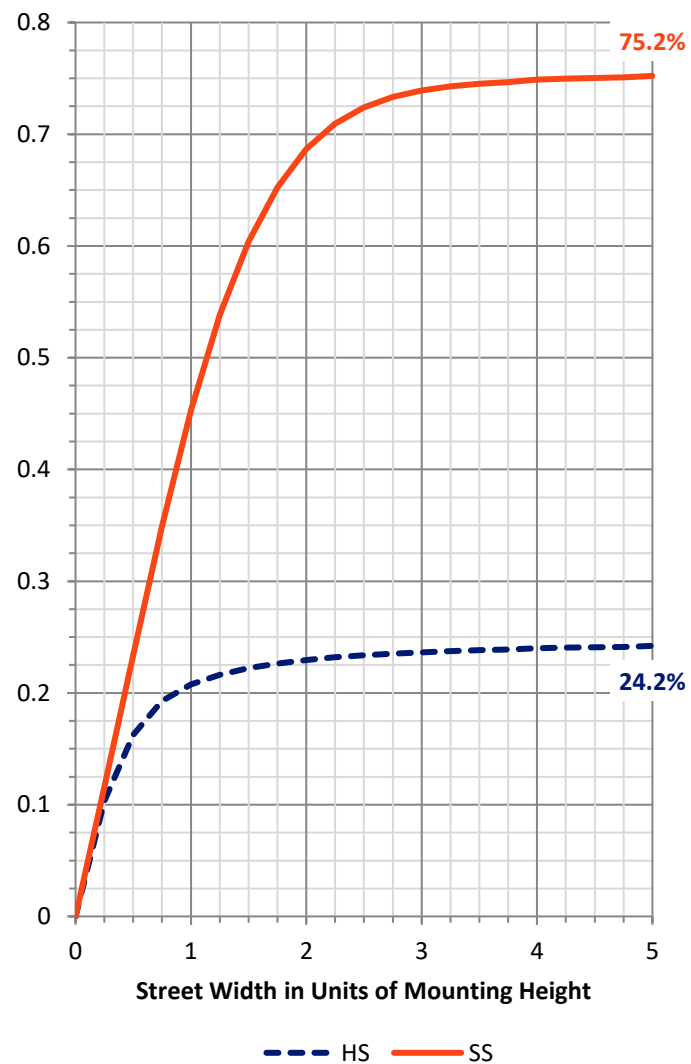
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4525.1	0.0	4525.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13931.9	0.0	13931.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	18457.0	0.0	18457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	1.2
10°-20°	733.9	4.0
20°-30°	1328.3	7.2
30°-40°	2089.6	11.3
40°-50°	3112.3	16.9
50°-60°	4082.7	22.1
60°-70°	4464.7	24.2
70°-80°	2209.3	12.0
80°-90°	210.7	1.1
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°	18457.0	100.0
0°-180°	18457.0	100.0

Coefficient of Utilization



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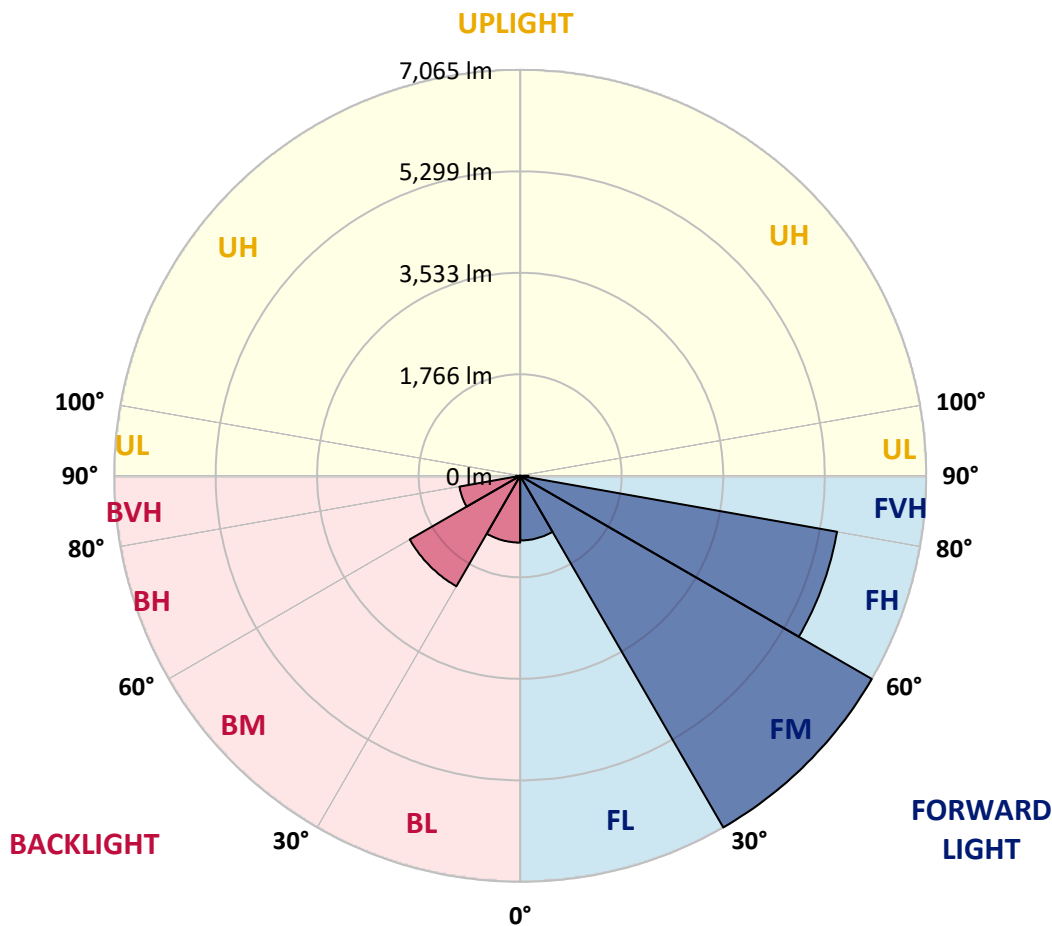
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.2	6.1			
FM	(30°-60°)	7065.1	38.3			
FH	(60°-80°)	5599.9	30.3			G3/7500
FVH	(80°-90°)	141.7	0.8			G2/225
BL	(0°-30°)	1162.5	6.3	B3/2500		
BM	(30°-60°)	2219.5	12.0	B2/2500		
BH	(60°-80°)	1074.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	69.0	0.4			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6
2.5°	2058.7	2053.9	2065.8	2077.7	2103.9	2134.9	2177.7	2213.4	2218.2	2284.8	2337.2
5°	1937.3	1930.2	1942.1	1956.4	1968.3	2006.3	2051.6	2103.9	2125.3	2222.9	2334.8
7.5°	1949.2	1946.8	1951.6	1946.8	1946.8	1963.5	1994.4	2046.8	2070.6	2187.2	2346.7
10°	2018.2	2023.0	2025.4	2011.1	1996.8	1989.7	1999.2	2034.9	2051.6	2189.6	2399.0
12.5°	2132.5	2139.6	2142.0	2115.8	2096.8	2065.8	2049.2	2063.5	2075.4	2213.4	2472.8
15°	2287.2	2291.9	2275.3	2258.6	2211.0	2172.9	2132.5	2120.6	2125.3	2263.4	2556.1
17.5°	2468.1	2460.9	2460.9	2420.5	2358.6	2299.1	2232.4	2222.9	2222.9	2344.3	2675.1
20°	2665.6	2672.7	2651.3	2596.6	2534.7	2441.9	2375.2	2332.4	2337.2	2437.1	2820.3
22.5°	2951.2	2963.1	2906.0	2827.4	2732.2	2625.1	2529.9	2460.9	2463.3	2558.5	2970.2
25°	3258.2	3263.0	3227.3	3122.6	2994.0	2841.7	2715.6	2627.5	2625.1	2694.2	3163.0
27.5°	3572.4	3593.8	3522.4	3422.4	3303.4	3113.0	2946.4	2827.4	2808.4	2901.2	3403.4
30°	3896.1	3922.2	3853.2	3755.6	3608.1	3446.2	3248.7	3110.7	3098.8	3222.5	3724.7
32.5°	4222.1	4229.3	4174.5	4093.6	3960.3	3808.0	3648.5	3496.2	3484.3	3686.6	4141.2
35°	4488.7	4510.1	4472.0	4453.0	4355.4	4215.0	4060.3	3972.2	4003.2	4262.6	4681.5
37.5°	4810.0	4831.4	4788.6	4783.8	4752.9	4631.5	4524.4	4531.5	4562.5	4914.7	5250.3
40°	5274.1	5297.9	5188.4	5140.8	5140.8	5021.8	4986.1	5155.1	5195.5	5557.3	5842.9
42.5°	5666.8	5704.9	5640.6	5609.7	5516.8	5433.5	5476.4	5714.4	5783.4	6171.3	6359.4
45°	5857.2	5885.7	5961.9	6052.3	5961.9	5816.7	5978.6	6247.5	6345.1	6737.8	6875.8
47.5°	5959.5	5985.7	6073.8	6316.5	6378.4	6257.0	6485.5	6821.1	6887.7	7299.5	7368.5
50°	5973.8	6057.1	6171.3	6414.1	6697.3	6714.0	6994.8	7404.2	7482.7	7851.6	7801.6
52.5°	5857.2	5890.5	6126.1	6535.5	6849.6	7135.2	7549.4	7963.5	8020.6	8370.5	8184.8
55°	5666.8	5714.4	5950.0	6506.9	6997.2	7535.1	8113.4	8513.3	8577.5	8875.0	8539.4
57.5°	5495.4	5519.2	5771.5	6423.6	7144.8	7934.9	8615.6	9086.8	9129.7	9317.7	8801.2
60°	5305.0	5331.2	5583.5	6245.1	7254.2	8237.2	9139.2	9665.2	9703.3	9784.2	9105.9
62.5°	4812.4	4881.4	5197.9	5950.0	7225.7	8582.3	9698.5	10236.4	10284.0	10195.9	9346.3
65°	3908.0	4005.5	4393.5	5281.2	6959.1	8806.0	10155.5	10762.4	10843.3	10505.3	9410.5
67.5°	3034.5	3103.5	3415.3	4191.2	6023.8	8694.1	10450.6	11124.1	11147.9	10455.3	9053.5
68°	2877.4	2946.4	3243.9	3962.7	5764.4	8560.9	10443.4	11133.6	11186.0	10400.6	8915.5
70°	2201.5	2280.0	2563.3	3139.2	4645.8	7713.6	10007.9	10905.2	10898.0	9739.0	8058.7
72.5°	1375.6	1420.9	1616.0	1980.2	3072.6	5869.1	8494.2	9617.6	9636.6	7939.7	6180.9
75°	873.5	873.5	863.9	959.1	1575.6	3343.9	6314.1	7404.2	7418.5	5559.7	3896.1
77.5°	759.2	737.8	635.5	537.9	628.3	1299.5	3736.6	4781.4	4702.9	2994.0	1849.3
80°	640.2	604.5	521.2	433.2	404.6	407.0	1435.1	2427.6	2322.9	1078.1	614.0
82.5°	461.7	430.8	392.7	340.3	311.8	242.8	299.9	702.1	685.4	311.8	199.9
85°	249.9	226.1	221.3	223.7	188.0	149.9	126.1	154.7	154.7	135.7	114.2
87.5°	88.1	64.3	76.2	85.7	73.8	61.9	50.0	59.5	61.9	59.5	54.7
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°	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6	2358.6
2.5°	2368.1	2391.9	2449.0	2499.0	2534.7	2565.6	2582.3	2589.4	2606.1	2608.5	2603.7
5°	2387.1	2449.0	2534.7	2608.5	2648.9	2665.6	2670.4	2672.7	2665.6	2670.4	2665.6
7.5°	2437.1	2515.7	2637.0	2701.3	2708.4	2682.3	2684.6	2675.1	2684.6	2694.2	2694.2
10°	2513.3	2613.2	2727.5	2751.3	2720.3	2706.1	2734.6	2791.7	2810.8	2837.0	2837.0
12.5°	2613.2	2732.2	2813.2	2791.7	2763.2	2810.8	2894.1	2951.2	2970.2	2979.8	2972.6
15°	2727.5	2856.0	2896.5	2825.1	2877.4	2979.8	3008.3	2975.0	2927.4	2906.0	2917.9
17.5°	2872.7	2979.8	2956.0	2908.4	3027.4	3041.6	2948.8	2841.7	2765.6	2737.0	2756.0
20°	3025.0	3117.8	3008.3	3029.7	3103.5	2951.2	2775.1	2637.0	2570.4	2558.5	2577.5
22.5°	3186.8	3246.3	3060.7	3170.2	3060.7	2751.3	2539.5	2468.1	2451.4	2470.4	2487.1
25°	3370.1	3362.9	3151.1	3213.0	2901.2	2506.1	2380.0	2375.2	2375.2	2387.1	2410.9
27.5°	3577.1	3465.3	3241.6	3155.9	2625.1	2303.8	2280.0	2282.4	2275.3	2277.7	2289.6
30°	3817.5	3603.3	3341.5	2967.9	2315.7	2151.5	2142.0	2134.9	2118.2	2113.4	2118.2
32.5°	4119.8	3748.5	3443.9	2658.5	2044.4	1994.4	1989.7	1951.6	1911.1	1906.4	1923.0
35°	4503.0	4012.7	3496.2	2270.5	1820.7	1818.3	1801.7	1742.2	1689.8	1689.8	1677.9
37.5°	4940.9	4353.0	3517.6	1892.1	1635.1	1647.0	1599.4	1523.2	1482.7	1458.9	1466.1
40°	5388.3	4741.0	3515.3	1561.3	1473.2	1475.6	1439.9	1347.1	1247.1	1187.6	1201.9
42.5°	5819.1	5093.2	3453.4	1385.2	1342.3	1335.2	1306.6	1180.5	1097.2	1049.6	1052.0
45°	6164.2	5457.3	3358.2	1280.4	1223.3	1235.2	1171.0	1094.8	1018.6	975.8	973.4
47.5°	6509.3	5733.4	3205.9	1216.2	1135.3	1113.8	1087.7	1035.3	978.2	930.6	933.0
50°	6823.5	5969.0	3063.1	1173.3	1054.3	999.6	1004.4	973.4	923.4	880.6	878.2
52.5°	7044.8	6123.7	2984.5	1149.5	956.8	897.3	913.9	897.3	849.7	818.7	816.3
55°	7266.1	6242.7	3010.7	1118.6	849.7	802.1	830.6	825.9	799.7	790.2	792.5
57.5°	7444.6	6333.2	3103.5	1061.5	747.3	718.8	766.4	752.1	733.0	735.4	735.4
60°	7618.4	6449.8	3213.0	930.6	659.3	661.6	706.9	680.7	668.8	690.2	692.6
62.5°	7799.3	6575.9	3122.6	740.2	583.1	599.8	652.1	630.7	635.5	666.4	675.9
65°	7777.8	6564.0	2544.2	606.9	516.5	549.8	628.3	621.2	623.6	635.5	640.2
67.5°	7339.9	6145.2	1749.3	516.5	468.9	509.3	609.3	580.7	583.1	576.0	578.3
68°	7192.4	5997.6	1542.2	502.2	459.3	499.8	599.8	573.6	576.0	568.8	566.4
70°	6387.9	5136.0	975.8	442.7	426.0	473.6	552.2	542.6	540.3	535.5	535.5
72.5°	4869.5	3791.3	514.1	383.2	387.9	433.2	492.7	511.7	499.8	502.2	516.5
75°	3224.9	2280.0	357.0	328.4	340.3	371.3	437.9	476.0	464.1	471.2	464.1
77.5°	1706.5	1228.1	285.6	278.5	278.5	299.9	361.8	421.3	421.3	416.5	409.4
80°	559.3	433.2	228.5	219.0	223.7	235.6	290.4	345.1	352.2	342.7	338.0
82.5°	188.0	199.9	171.4	159.5	164.2	173.7	219.0	264.2	266.6	247.5	242.8
85°	116.6	133.3	107.1	104.7	104.7	107.1	133.3	145.2	133.3	119.0	123.8
87.5°	54.7	66.6	50.0	42.8	35.7	30.9	23.8	9.5	9.5	4.8	4.8
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)