

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: P836034

Luminaire Tested: **ARCH3-130-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18239 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

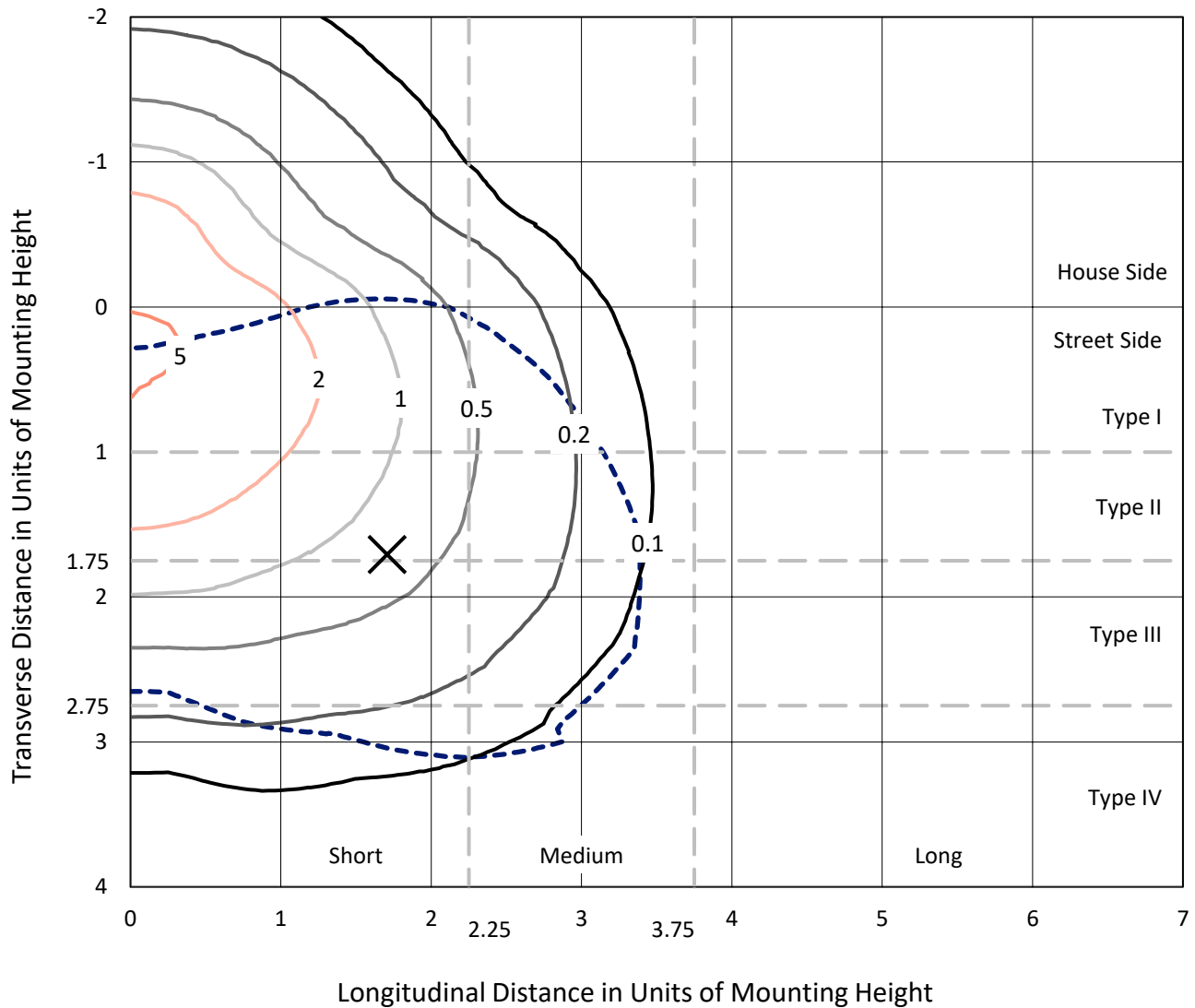


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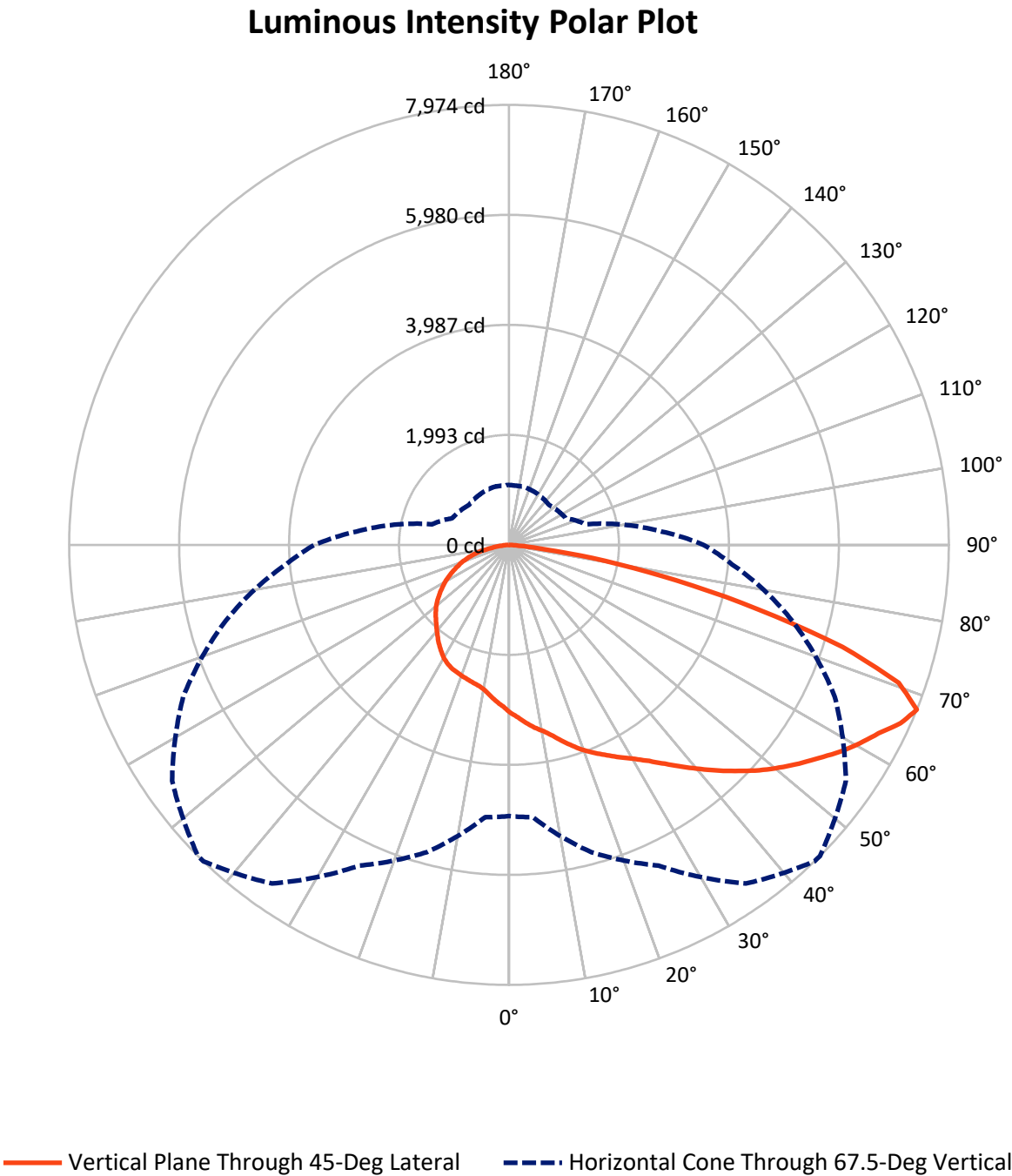
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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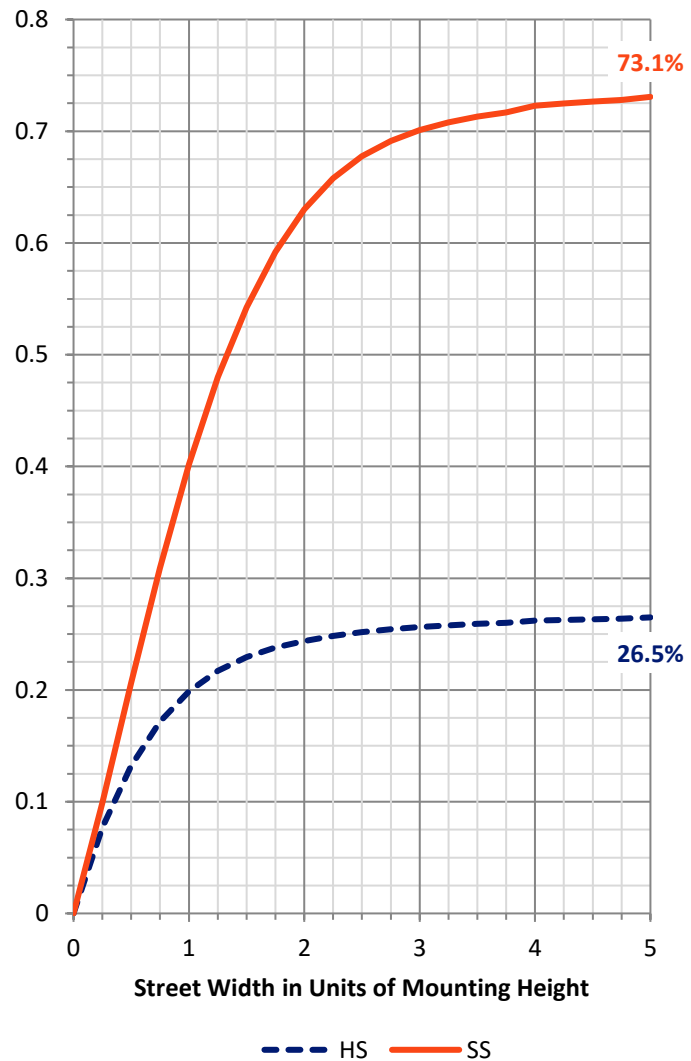
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4872.6	0.0	4872.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13366.4	0.0	13366.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	18239.0	0.0	18239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.6
10°-20°	899.7	4.9
20°-30°	1553.0	8.5
30°-40°	2290.1	12.6
40°-50°	3102.7	17.0
50°-60°	3792.2	20.8
60°-70°	3911.1	21.4
70°-80°	2142.2	11.7
80°-90°	256.8	1.4
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°	18239.0	100.0
0°-180°	18239.0	100.0

Coefficient of Utilization



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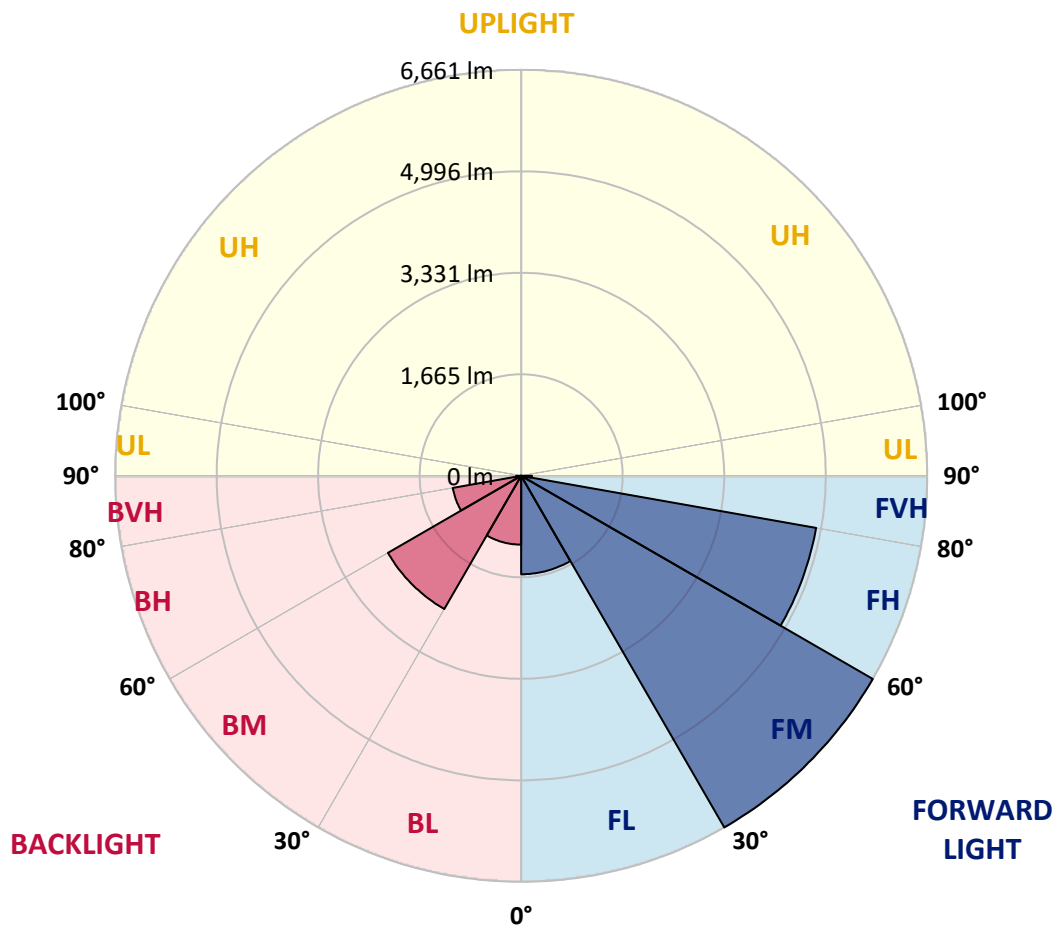
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.6	8.9			
FM	(30°-60°)	6661.1	36.5			
FH	(60°-80°)	4913.9	26.9			G2/5000
FVH	(80°-90°)	176.9	1.0			G2/225
BL	(0°-30°)	1129.3	6.2	B3/2500		
BM	(30°-60°)	2523.9	13.8	B3/5000		
BH	(60°-80°)	1139.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	79.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9
2.5°	3175.1	3172.4	3177.9	3158.5	3133.5	3130.7	3130.7	3114.1	3094.7	3055.8	3025.3
5°	3325.0	3319.5	3322.2	3294.5	3261.2	3244.5	3241.8	3205.7	3161.3	3100.2	3044.7
7.5°	3463.8	3458.2	3455.5	3424.9	3375.0	3347.2	3344.4	3291.7	3239.0	3144.6	3064.1
10°	3594.2	3588.7	3583.1	3541.5	3480.4	3438.8	3433.3	3366.6	3300.0	3183.5	3080.8
12.5°	3760.8	3749.7	3744.1	3694.2	3605.3	3560.9	3552.6	3463.8	3380.5	3239.0	3114.1
15°	3935.6	3927.3	3919.0	3871.8	3771.9	3713.6	3699.7	3588.7	3474.9	3311.1	3164.0
17.5°	4066.1	4057.7	4057.7	4016.1	3924.5	3857.9	3846.8	3713.6	3572.0	3377.8	3202.9
20°	4146.6	4138.2	4146.6	4121.6	4052.2	3996.7	3985.6	3838.5	3669.2	3438.8	3236.2
22.5°	4204.8	4196.5	4210.4	4199.3	4149.3	4116.0	4107.7	3963.4	3769.1	3502.6	3269.5
25°	4307.5	4307.5	4307.5	4288.1	4240.9	4229.8	4229.8	4104.9	3896.8	3585.9	3319.5
27.5°	4512.9	4501.8	4487.9	4432.4	4351.9	4349.2	4365.8	4249.3	4043.9	3694.2	3380.5
30°	4815.4	4809.9	4757.2	4640.6	4504.6	4490.7	4501.8	4404.7	4202.1	3808.0	3449.9
32.5°	5206.8	5187.4	5079.1	4904.3	4710.0	4646.1	4668.3	4565.7	4368.6	3924.5	3516.5
35°	5484.3	5489.9	5412.2	5254.0	5023.6	4854.3	4871.0	4746.1	4549.0	4055.0	3599.8
37.5°	5803.5	5822.9	5706.4	5587.0	5373.3	5084.7	5101.3	4932.0	4729.4	4218.7	3688.6
40°	6244.8	6206.0	6008.9	5867.4	5631.4	5326.1	5340.0	5140.2	4937.6	4374.1	3791.3
42.5°	6614.0	6544.6	6305.9	6125.5	5842.4	5581.5	5595.4	5365.0	5148.5	4546.2	3905.1
45°	7144.1	6952.6	6608.4	6519.6	6058.9	5831.3	5845.1	5603.7	5370.5	4729.4	4027.2
47.5°	7452.1	7146.8	6927.6	6880.4	6297.6	6089.4	6106.0	5856.2	5609.2	4937.6	4154.9
50°	7432.7	7235.7	7171.8	7055.3	6508.5	6330.9	6347.5	6117.1	5850.7	5143.0	4277.0
52.5°	7305.0	7341.1	7307.8	7113.5	6719.4	6564.0	6583.4	6375.3	6097.7	5334.5	4390.8
55°	7502.1	7527.1	7463.2	7207.9	6952.6	6797.1	6819.3	6647.3	6342.0	5503.8	4487.9
57.5°	7738.0	7649.2	7585.4	7374.4	7194.0	7049.7	7074.7	6924.8	6552.9	5639.8	4562.9
60°	7726.9	7541.0	7604.8	7385.5	7357.8	7282.8	7305.0	7152.4	6713.9	5739.7	4593.4
62.5°	7157.9	7058.0	7380.0	7305.0	7491.0	7491.0	7518.8	7291.2	6811.0	5781.3	4576.8
65°	6169.9	6175.4	6741.6	7052.5	7649.2	7776.9	7799.1	7377.2	6755.5	5659.2	4421.3
67.5°	4915.4	4951.4	5764.7	6411.3	7491.0	7971.2	7973.9	7454.9	6516.8	5315.0	4060.5
70°	3597.0	3624.8	4585.1	5370.5	6744.4	7541.0	7496.6	7235.7	5997.8	4715.5	3497.1
72.5°	2431.3	2456.3	3444.4	4124.4	5534.3	6422.4	6325.3	6394.7	5112.4	3874.6	2811.6
75°	1634.8	1665.3	2450.7	2950.3	4071.6	4876.5	4660.0	4843.2	3955.1	2933.7	2051.1
77.5°	1029.7	1049.1	1557.0	1934.5	2781.0	3319.5	3103.0	3105.8	2278.7	1579.2	1101.9
80°	655.0	660.6	943.7	1115.7	1609.8	1995.6	1765.2	1434.9	1026.9	838.2	657.8
82.5°	380.2	371.9	563.4	630.0	766.0	757.7	627.3	594.0	449.6	419.1	335.8
85°	152.7	141.5	247.0	230.4	233.1	247.0	183.2	183.2	147.1	113.8	83.3
87.5°	30.5	30.5	33.3	30.5	30.5	33.3	25.0	25.0	22.2	22.2	22.2
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°	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9
2.5°	3019.7	3014.2	3000.3	2964.2	2944.8	2933.7	2917.0	2911.5	2908.7	2911.5	2919.8
5°	3028.0	3008.6	2969.8	2911.5	2872.6	2847.6	2819.9	2808.8	2800.5	2800.5	2808.8
7.5°	3033.6	3003.1	2936.5	2850.4	2794.9	2756.0	2722.7	2708.9	2706.1	2714.4	2717.2
10°	3036.4	2992.0	2897.6	2789.4	2717.2	2667.2	2633.9	2625.6	2633.9	2650.6	2653.4
12.5°	3055.8	2994.7	2875.4	2747.7	2661.7	2611.7	2586.7	2586.7	2608.9	2639.5	2642.3
15°	3089.1	3014.2	2864.3	2714.4	2625.6	2581.2	2572.9	2586.7	2620.0	2667.2	2672.8
17.5°	3114.1	3025.3	2839.3	2670.0	2578.4	2550.7	2564.5	2597.8	2645.0	2708.9	2714.4
20°	3130.7	3025.3	2803.2	2617.3	2531.2	2525.7	2564.5	2617.3	2667.2	2742.2	2750.5
22.5°	3147.4	3019.7	2761.6	2553.4	2478.5	2495.2	2567.3	2633.9	2683.9	2764.4	2778.2
25°	3177.9	3028.0	2720.0	2489.6	2423.0	2470.2	2564.5	2645.0	2697.8	2781.0	2803.2
27.5°	3219.5	3047.5	2689.4	2431.3	2367.5	2431.3	2545.1	2642.3	2697.8	2778.2	2803.2
30°	3264.0	3069.7	2653.4	2367.5	2303.6	2375.8	2503.5	2611.7	2675.6	2750.5	2781.0
32.5°	3311.1	3094.7	2622.8	2298.1	2225.9	2300.9	2442.4	2564.5	2633.9	2703.3	2736.6
35°	3375.0	3139.1	2606.2	2242.6	2156.5	2223.2	2364.7	2503.5	2578.4	2642.3	2681.1
37.5°	3452.7	3194.6	2597.8	2187.1	2081.6	2137.1	2281.4	2428.5	2509.0	2561.8	2597.8
40°	3541.5	3264.0	2595.1	2134.3	2006.7	2048.3	2195.4	2342.5	2420.2	2461.8	2492.4
42.5°	3641.4	3341.7	2589.5	2081.6	1931.7	1965.0	2112.1	2256.5	2323.1	2359.2	2386.9
45°	3746.9	3419.4	2578.4	2017.8	1851.2	1890.1	2026.1	2153.8	2223.2	2253.7	2284.2
47.5°	3852.4	3497.1	2556.2	1945.6	1779.1	1815.2	1934.5	2045.5	2101.0	2128.8	2159.3
50°	3955.1	3566.5	2503.5	1862.3	1704.1	1737.4	1829.0	1904.0	1945.6	1967.8	1998.3
52.5°	4046.6	3613.7	2428.5	1765.2	1629.2	1645.9	1706.9	1770.8	1804.1	1806.8	1834.6
55°	4124.4	3638.6	2320.3	1665.3	1548.7	1551.5	1584.8	1634.8	1648.6	1637.5	1657.0
57.5°	4168.8	3624.8	2201.0	1562.6	1465.5	1454.3	1479.3	1504.3	1507.1	1479.3	1498.8
60°	4179.9	3560.9	2045.5	1459.9	1382.2	1351.7	1360.0	1354.4	1348.9	1337.8	1354.4
62.5°	4124.4	3424.9	1873.4	1360.0	1293.4	1246.2	1243.4	1240.6	1249.0	1251.7	1254.5
65°	3921.7	3169.6	1668.1	1257.3	1199.0	1135.2	1132.4	1165.7	1176.8	1160.1	1165.7
67.5°	3530.4	2778.2	1443.2	1137.9	1079.7	1024.1	1046.4	1065.8	1085.2	1079.7	1085.2
70°	2975.3	2281.4	1237.9	1004.7	949.2	918.7	943.7	960.3	963.1	957.5	963.1
72.5°	2339.7	1781.9	1046.4	868.7	818.8	804.9	835.4	849.3	874.3	885.4	888.2
75°	1690.3	1315.6	857.6	721.6	680.0	680.0	707.7	732.7	754.9	741.1	732.7
77.5°	943.7	785.5	616.2	496.8	505.1	544.0	555.1	582.8	605.1	602.3	596.7
80°	571.7	491.3	416.3	322.0	319.2	349.7	421.9	469.1	480.2	455.2	452.4
82.5°	297.0	258.1	222.0	180.4	199.8	233.1	244.2	294.2	324.7	313.6	327.5
85°	74.9	72.2	80.5	83.3	102.7	113.8	124.9	147.1	97.1	47.2	47.2
87.5°	22.2	22.2	27.8	27.8	36.1	44.4	41.6	41.6	22.2	2.8	0.0
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)