

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: P836241

Luminaire Tested: **ARCH3-160-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836241
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: ARCH3-160-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19016 lumens
Efficiency: N/A
Efficacy: 118.1 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): 161
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

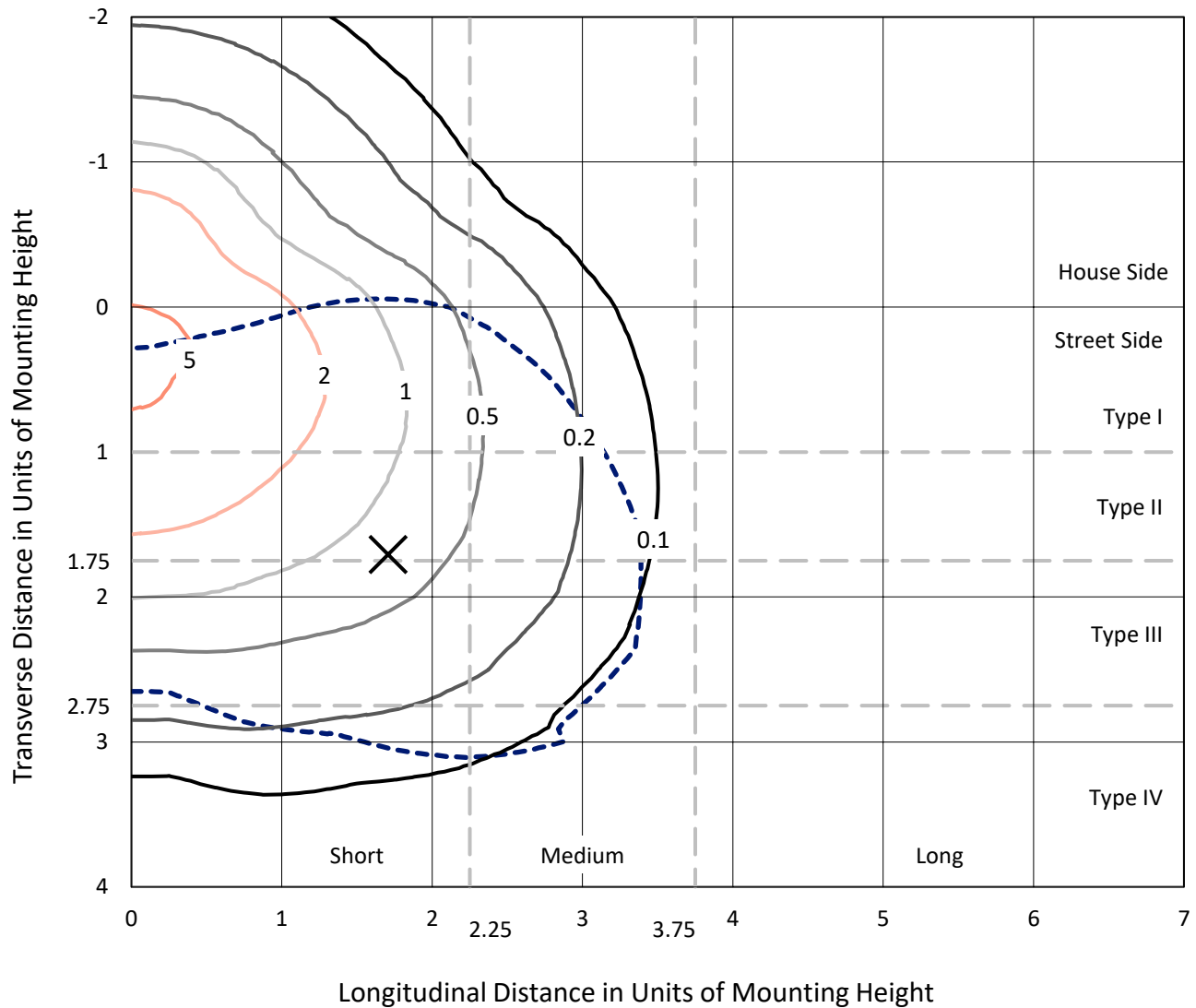


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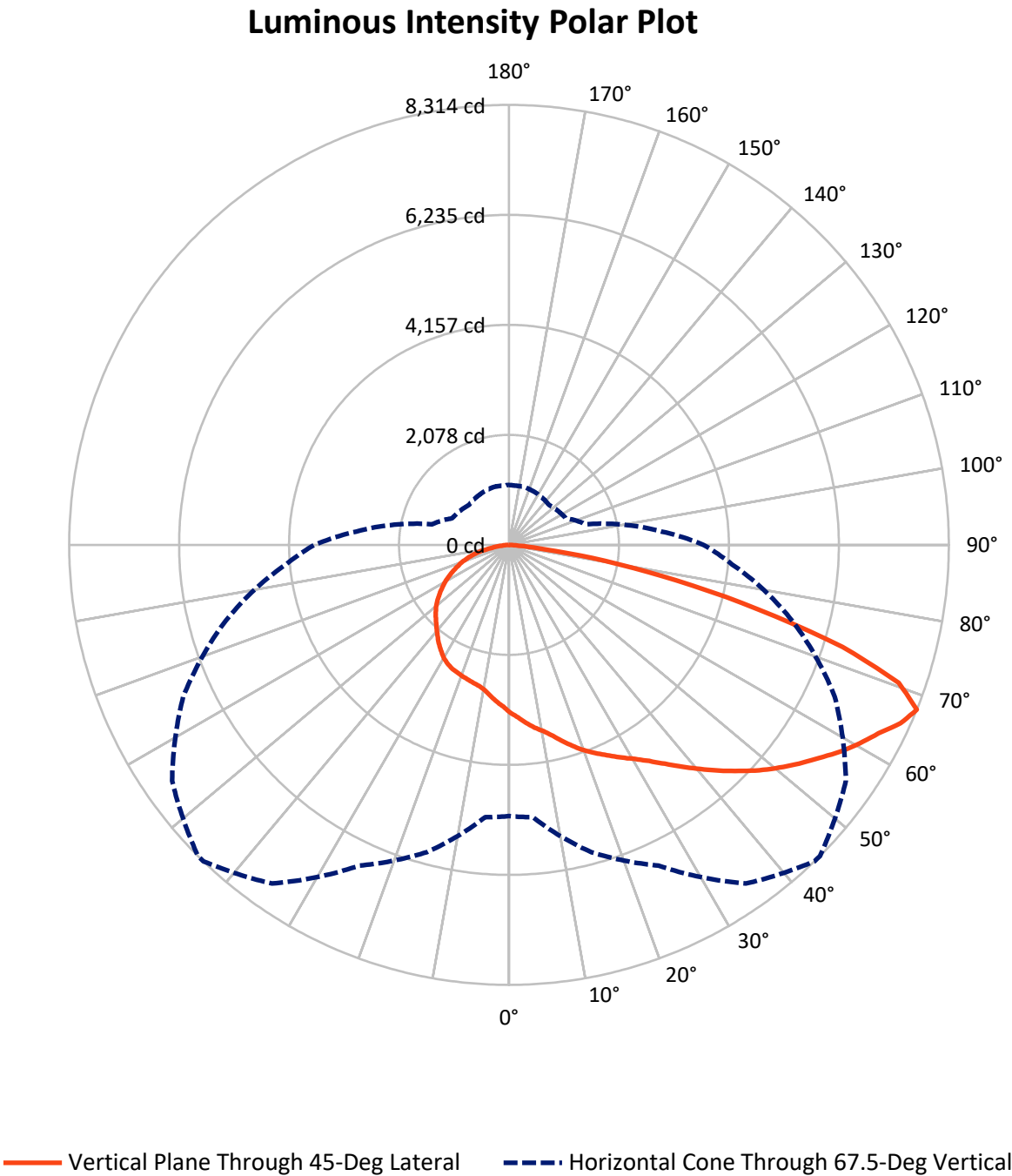
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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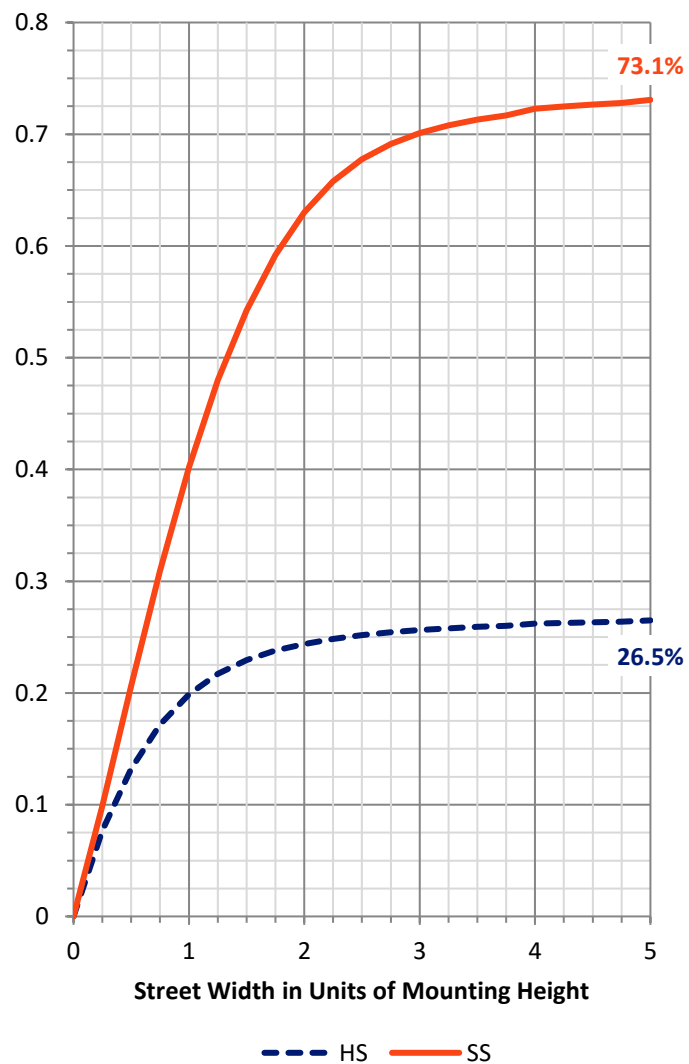
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5080.1	0.0	5080.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13935.8	0.0	13935.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	19016.0	0.0	19016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.6
10°-20°	938.0	4.9
20°-30°	1619.1	8.5
30°-40°	2387.7	12.6
40°-50°	3234.8	17.0
50°-60°	3953.7	20.8
60°-70°	4077.7	21.4
70°-80°	2233.5	11.7
80°-90°	267.7	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°	19016.0	100.0
0°-180°	19016.0	100.0

Coefficient of Utilization



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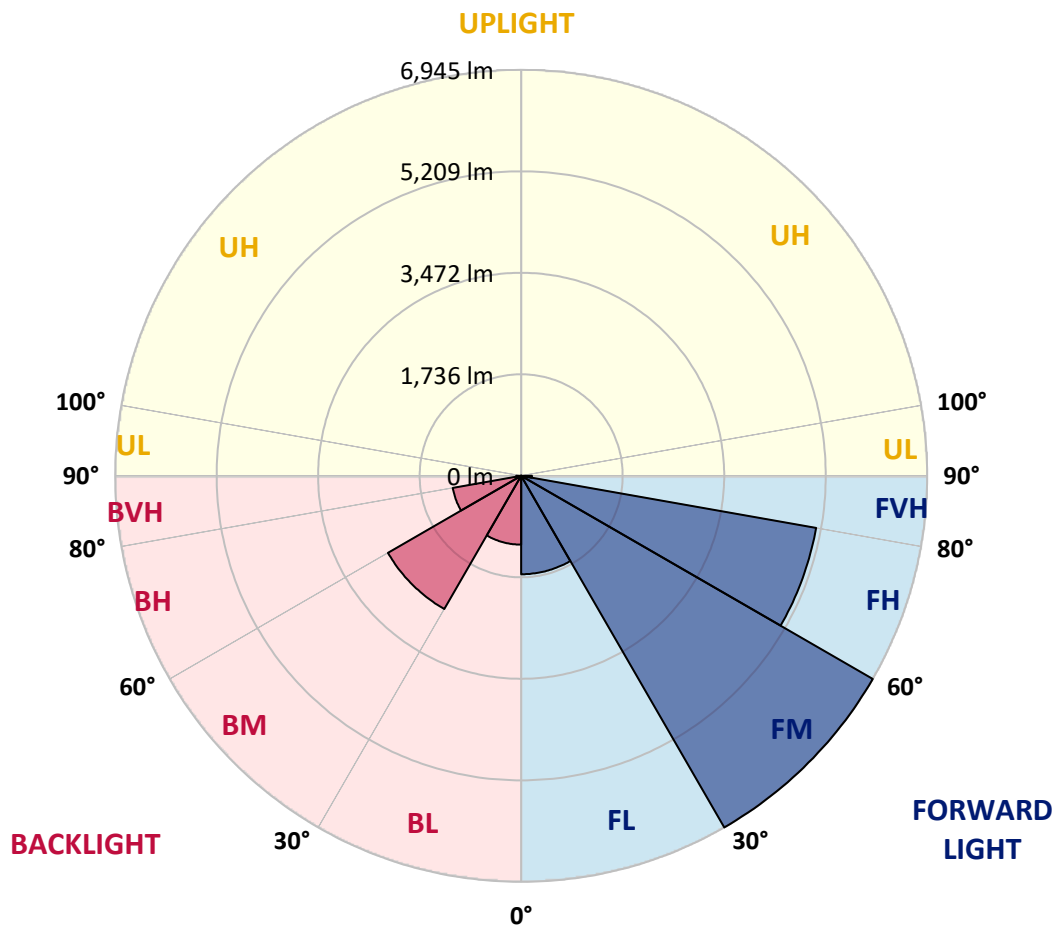
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1683.4	8.9			
FM	(30°-60°)	6944.8	36.5			
FH	(60°-80°)	5123.2	26.9			G3/7500
FVH	(80°-90°)	184.4	1.0			G2/225
BL	(0°-30°)	1177.4	6.2	B3/2500		
BM	(30°-60°)	2631.4	13.8	B3/5000		
BH	(60°-80°)	1188.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	83.3	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°	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5
2.5°	3310.4	3307.5	3313.3	3293.0	3267.0	3264.1	3264.1	3246.7	3226.5	3186.0	3154.1
5°	3466.7	3460.9	3463.8	3434.8	3400.1	3382.7	3379.9	3342.2	3295.9	3232.3	3174.4
7.5°	3611.4	3605.6	3602.7	3570.8	3518.8	3489.8	3486.9	3431.9	3377.0	3278.6	3194.7
10°	3747.4	3741.6	3735.8	3692.4	3628.7	3585.3	3579.5	3510.1	3440.6	3319.1	3212.0
12.5°	3921.0	3909.4	3903.6	3851.5	3758.9	3712.6	3704.0	3611.4	3524.5	3377.0	3246.7
15°	4103.3	4094.6	4085.9	4036.7	3932.6	3871.8	3857.3	3741.6	3622.9	3452.2	3298.8
17.5°	4239.3	4230.6	4230.6	4187.2	4091.7	4022.3	4010.7	3871.8	3724.2	3521.6	3339.3
20°	4323.2	4314.5	4323.2	4297.2	4224.8	4166.9	4155.4	4002.0	3825.5	3585.3	3374.1
22.5°	4384.0	4375.3	4389.8	4378.2	4326.1	4291.4	4282.7	4132.2	3929.7	3651.9	3408.8
25°	4491.0	4491.0	4491.0	4470.8	4421.6	4410.0	4410.0	4279.8	4062.8	3738.7	3460.9
27.5°	4705.2	4693.6	4679.1	4621.3	4537.3	4534.4	4551.8	4430.3	4216.1	3851.5	3524.5
30°	5020.6	5014.8	4959.8	4838.3	4696.5	4682.0	4693.6	4592.3	4381.1	3970.2	3596.9
32.5°	5428.6	5408.3	5295.5	5113.2	4910.6	4844.1	4867.2	4760.2	4554.7	4091.7	3666.3
35°	5718.0	5723.8	5642.7	5477.8	5237.6	5061.1	5078.5	4948.2	4742.8	4227.7	3753.1
37.5°	6050.8	6071.0	5949.5	5825.0	5602.2	5301.3	5318.6	5142.1	4930.9	4398.4	3845.7
40°	6510.9	6470.3	6264.9	6117.3	5871.3	5553.0	5567.5	5359.2	5147.9	4560.5	3952.8
42.5°	6895.7	6823.4	6574.5	6386.4	6091.3	5819.3	5833.7	5593.5	5367.8	4739.9	4071.5
45°	7448.4	7248.7	6889.9	6797.3	6317.0	6079.7	6094.2	5842.4	5599.3	4930.9	4198.8
47.5°	7769.6	7451.3	7222.7	7173.5	6565.8	6348.8	6366.2	6105.7	5848.2	5147.9	4331.9
50°	7749.4	7543.9	7477.4	7355.8	6785.8	6600.6	6617.9	6377.7	6099.9	5362.0	4459.2
52.5°	7616.2	7653.9	7619.1	7416.6	7005.7	6843.6	6863.9	6646.9	6357.5	5561.7	4577.9
55°	7821.7	7847.7	7781.2	7515.0	7248.7	7086.7	7109.8	6930.4	6612.1	5738.2	4679.1
57.5°	8067.7	7975.1	7908.5	7688.6	7500.5	7350.0	7376.1	7219.8	6832.1	5880.0	4757.3
60°	8056.1	7862.2	7928.8	7700.2	7671.2	7593.1	7616.2	7457.1	6999.9	5984.2	4789.1
62.5°	7462.9	7358.7	7694.4	7616.2	7810.1	7810.1	7839.1	7601.8	7101.2	6027.6	4771.7
65°	6432.7	6438.5	7028.8	7352.9	7975.1	8108.2	8131.3	7691.5	7043.3	5900.3	4609.7
67.5°	5124.8	5162.4	6010.2	6684.5	7810.1	8310.7	8313.6	7772.5	6794.4	5541.5	4233.5
70°	3750.3	3779.2	4780.4	5599.3	7031.7	7862.2	7815.9	7543.9	6253.3	4916.4	3646.1
72.5°	2534.9	2560.9	3591.1	4300.1	5770.1	6696.0	6594.8	6667.1	5330.2	4039.6	2931.3
75°	1704.4	1736.2	2555.1	3076.0	4245.1	5084.3	4858.5	5049.5	4123.5	3058.7	2138.5
77.5°	1073.6	1093.8	1623.4	2016.9	2899.5	3460.9	3235.2	3238.1	2375.7	1646.5	1148.8
80°	682.9	688.7	983.9	1163.3	1678.4	2080.6	1840.4	1496.0	1070.7	873.9	685.8
82.5°	396.4	387.8	587.4	656.9	798.7	790.0	654.0	619.3	468.8	437.0	350.1
85°	159.2	147.6	257.5	240.2	243.1	257.5	191.0	191.0	153.4	118.6	86.8
87.5°	31.8	31.8	34.7	31.8	31.8	34.7	26.0	26.0	23.1	23.1	23.1
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°	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5	3171.5
2.5°	3148.4	3142.6	3128.1	3090.5	3070.2	3058.7	3041.3	3035.5	3032.6	3035.5	3044.2
5°	3157.0	3136.8	3096.3	3035.5	2995.0	2968.9	2940.0	2928.4	2919.8	2919.8	2928.4
7.5°	3162.8	3131.0	3061.5	2971.8	2914.0	2873.5	2838.7	2824.3	2821.4	2830.1	2832.9
10°	3165.7	3119.4	3021.0	2908.2	2832.9	2780.9	2746.1	2737.5	2746.1	2763.5	2766.4
12.5°	3186.0	3122.3	2997.9	2864.8	2775.1	2723.0	2696.9	2696.9	2720.1	2751.9	2754.8
15°	3220.7	3142.6	2986.3	2830.1	2737.5	2691.2	2682.5	2696.9	2731.7	2780.9	2786.6
17.5°	3246.7	3154.1	2960.3	2783.8	2688.3	2659.3	2673.8	2708.5	2757.7	2824.3	2830.1
20°	3264.1	3154.1	2922.6	2728.8	2639.1	2633.3	2673.8	2728.8	2780.9	2859.0	2867.7
22.5°	3281.5	3148.4	2879.2	2662.2	2584.1	2601.4	2676.7	2746.1	2798.2	2882.1	2896.6
25°	3313.3	3157.0	2835.8	2595.7	2526.2	2575.4	2673.8	2757.7	2812.7	2899.5	2922.6
27.5°	3356.7	3177.3	2804.0	2534.9	2468.3	2534.9	2653.5	2754.8	2812.7	2896.6	2922.6
30°	3403.0	3200.4	2766.4	2468.3	2401.8	2477.0	2610.1	2723.0	2789.5	2867.7	2899.5
32.5°	3452.2	3226.5	2734.6	2396.0	2320.8	2398.9	2546.5	2673.8	2746.1	2818.5	2853.2
35°	3518.8	3272.8	2717.2	2338.1	2248.4	2317.9	2465.4	2610.1	2688.3	2754.8	2795.3
37.5°	3599.8	3330.7	2708.5	2280.2	2170.3	2228.2	2378.6	2532.0	2615.9	2670.9	2708.5
40°	3692.4	3403.0	2705.6	2225.3	2092.2	2135.6	2288.9	2442.3	2523.3	2566.7	2598.6
42.5°	3796.5	3484.0	2699.8	2170.3	2014.0	2048.7	2202.1	2352.6	2422.0	2459.7	2488.6
45°	3906.5	3565.1	2688.3	2103.7	1930.1	1970.6	2112.4	2245.5	2317.9	2349.7	2381.5
47.5°	4016.5	3646.1	2665.1	2028.5	1854.9	1892.5	2016.9	2132.7	2190.5	2219.5	2251.3
50°	4123.5	3718.4	2610.1	1941.7	1776.7	1811.5	1907.0	1985.1	2028.5	2051.6	2083.5
52.5°	4219.0	3767.6	2532.0	1840.4	1698.6	1716.0	1779.6	1846.2	1880.9	1883.8	1912.7
55°	4300.1	3793.7	2419.1	1736.2	1614.7	1617.6	1652.3	1704.4	1718.9	1707.3	1727.5
57.5°	4346.4	3779.2	2294.7	1629.2	1527.9	1516.3	1542.3	1568.4	1571.3	1542.3	1562.6
60°	4357.9	3712.6	2132.7	1522.1	1441.1	1409.2	1417.9	1412.1	1406.3	1394.8	1412.1
62.5°	4300.1	3570.8	1953.3	1417.9	1348.5	1299.3	1296.4	1293.5	1302.2	1305.1	1308.0
65°	4088.8	3304.6	1739.1	1310.9	1250.1	1183.5	1180.6	1215.4	1226.9	1209.6	1215.4
67.5°	3680.8	2896.6	1504.7	1186.4	1125.7	1067.8	1090.9	1111.2	1131.4	1125.7	1131.4
70°	3102.1	2378.6	1290.6	1047.5	989.6	957.8	983.9	1001.2	1004.1	998.3	1004.1
72.5°	2439.4	1857.8	1090.9	905.7	853.6	839.2	871.0	885.5	911.5	923.1	926.0
75°	1762.3	1371.6	894.2	752.4	709.0	709.0	737.9	763.9	787.1	772.6	763.9
77.5°	983.9	818.9	642.4	518.0	526.7	567.2	578.7	607.7	630.8	627.9	622.1
80°	596.1	512.2	434.1	335.7	332.8	364.6	439.8	489.0	500.6	474.6	471.7
82.5°	309.6	269.1	231.5	188.1	208.3	243.1	254.6	306.7	338.6	327.0	341.5
85°	78.1	75.2	83.9	86.8	107.1	118.6	130.2	153.4	101.3	49.2	49.2
87.5°	23.1	23.1	28.9	28.9	37.6	46.3	43.4	43.4	23.1	2.9	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)