

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: P836313

Luminaire Tested: **ARCH3-170-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836313
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: ARCH3-170-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19722 lumens
Efficiency: N/A
Efficacy: 115.6 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): 170.6
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



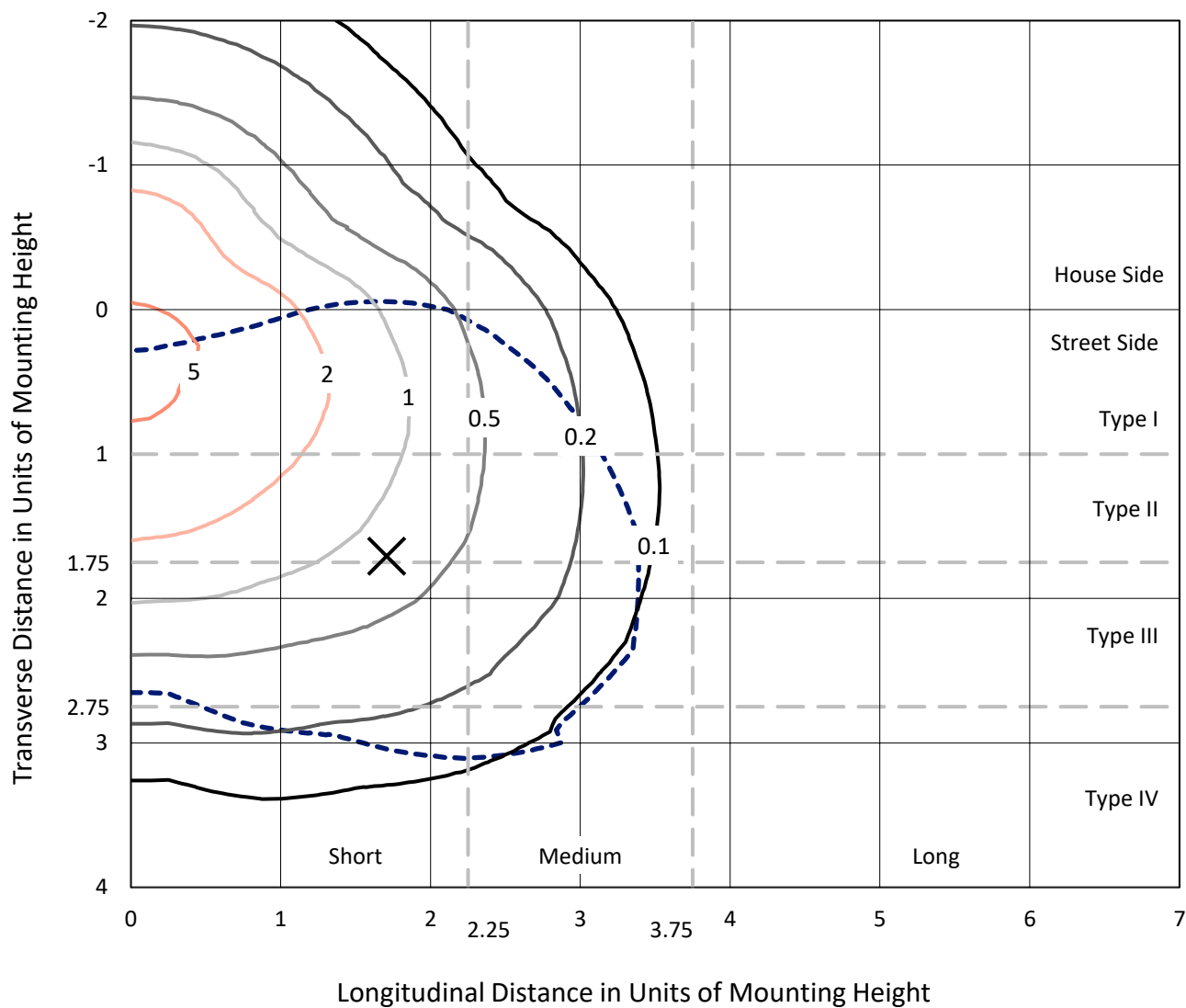
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Iso-Footcandle Lines of Horizontal Illumination

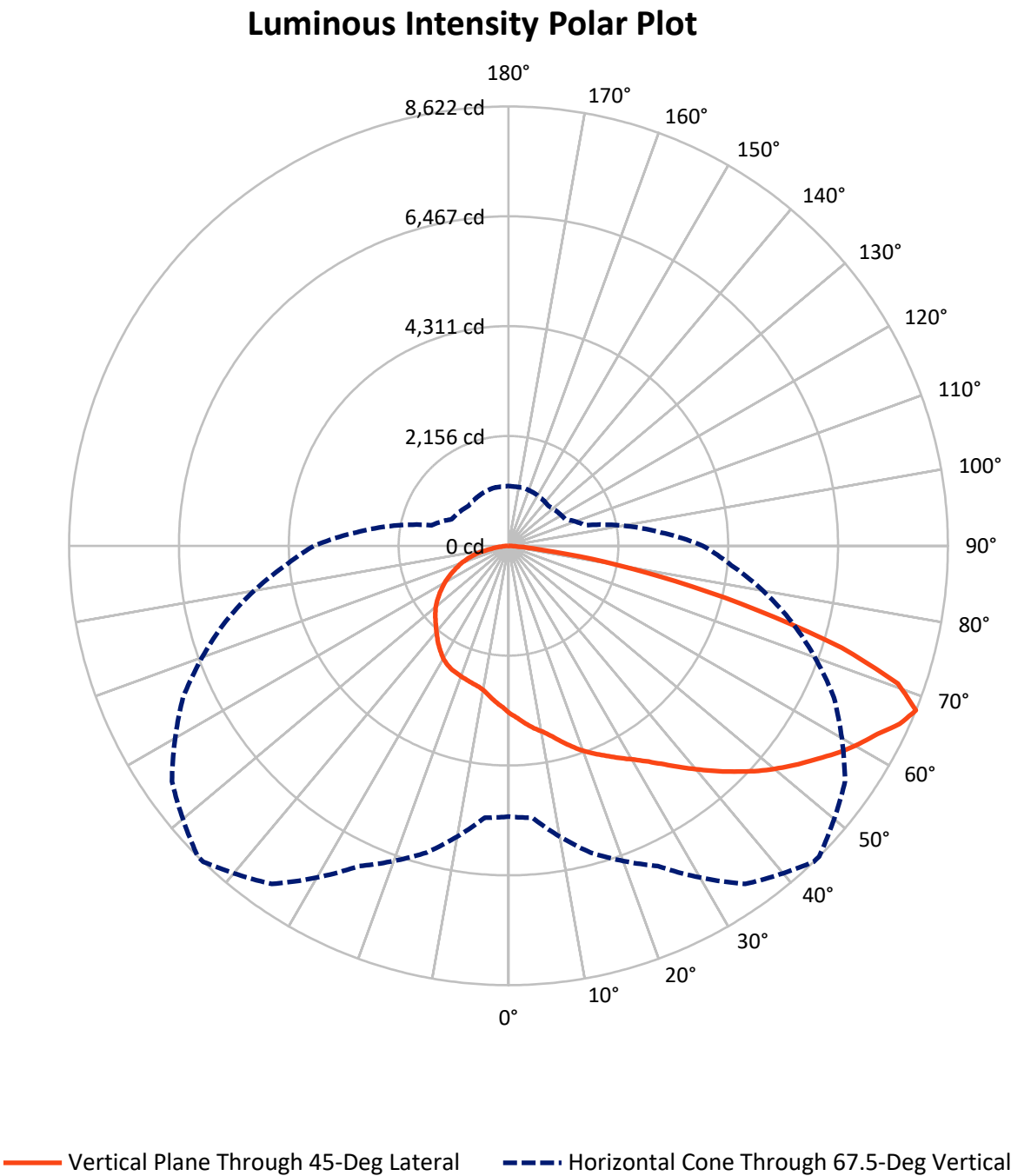
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - N/A

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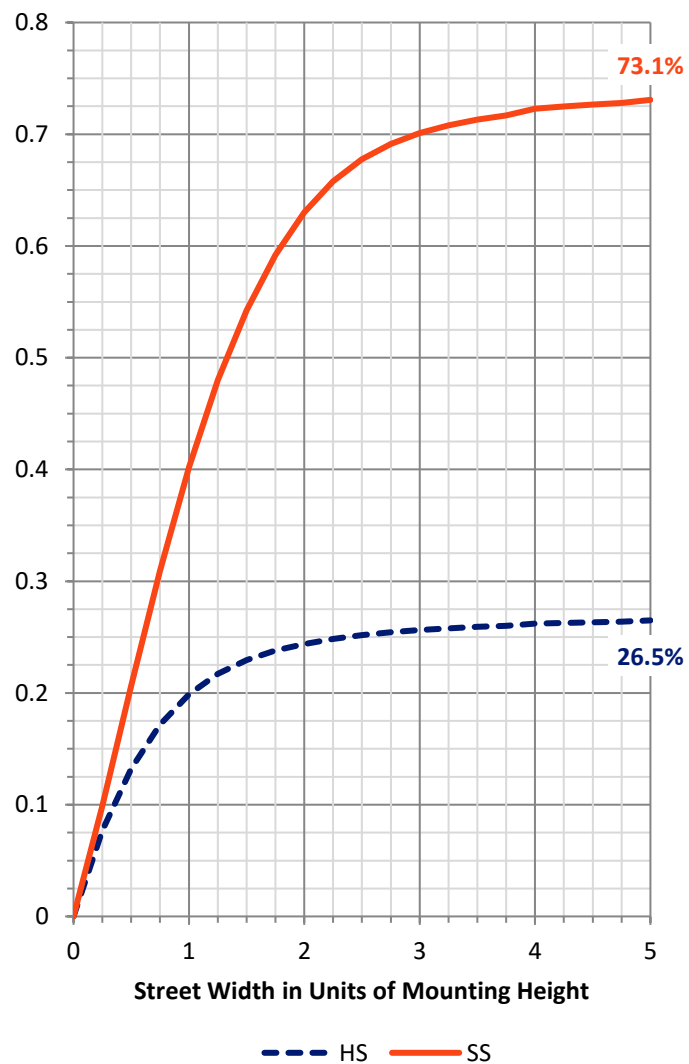
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5268.7	0.0	5268.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14453.2	0.0	14453.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	19722.0	0.0	19722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	1.6
10°-20°	972.9	4.9
20°-30°	1679.3	8.5
30°-40°	2476.3	12.6
40°-50°	3354.9	17.0
50°-60°	4100.5	20.8
60°-70°	4229.1	21.4
70°-80°	2316.4	11.7
80°-90°	277.6	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°	19722.0	100.0
0°-180°	19722.0	100.0

Coefficient of Utilization



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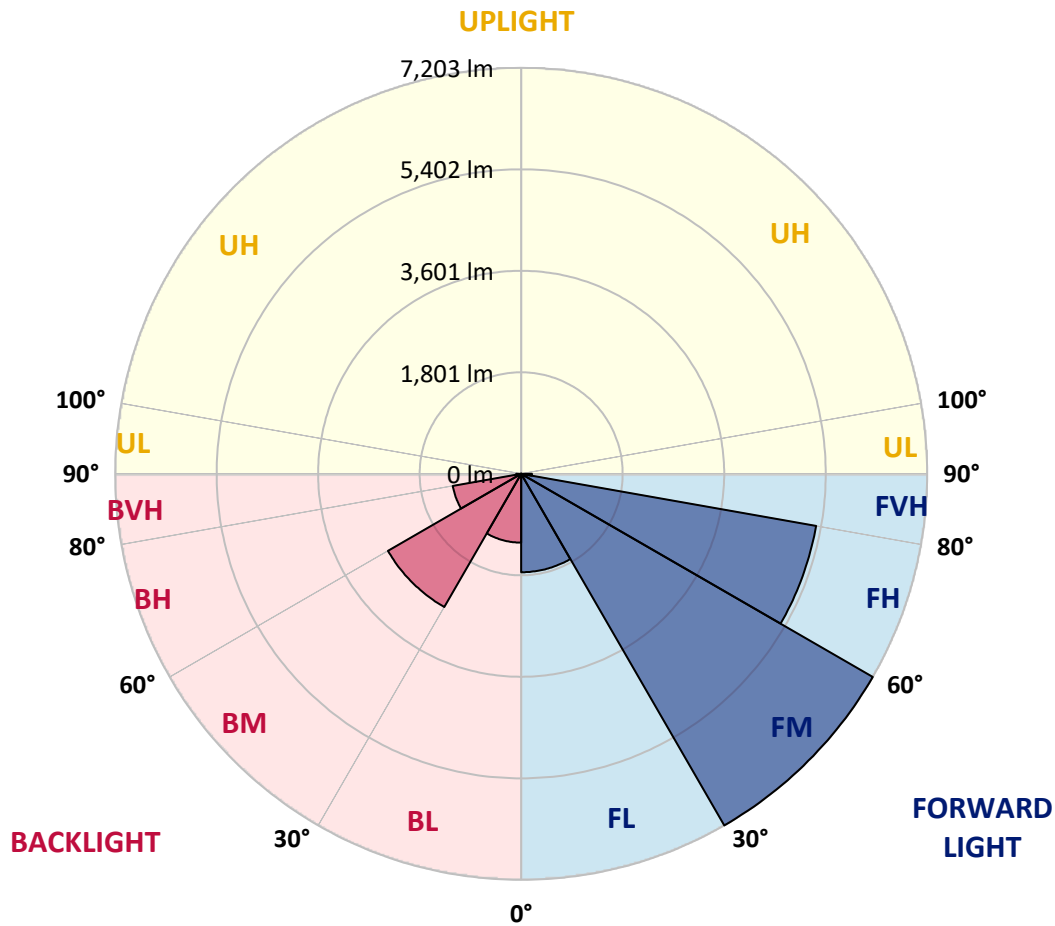
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1745.9	8.9			
FM	(30°-60°)	7202.7	36.5			
FH	(60°-80°)	5313.4	26.9			G3/7500
FVH	(80°-90°)	191.3	1.0			G2/225
BL	(0°-30°)	1221.1	6.2	B3/2500		
BM	(30°-60°)	2729.1	13.8	B3/5000		
BH	(60°-80°)	1232.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	86.4	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°	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3
2.5°	3433.3	3430.3	3436.3	3415.3	3388.3	3385.3	3385.3	3367.3	3346.3	3304.3	3271.2
5°	3595.4	3589.4	3592.4	3562.4	3526.3	3508.3	3505.3	3466.3	3418.3	3352.3	3292.3
7.5°	3745.4	3739.4	3736.4	3703.4	3649.4	3619.4	3616.4	3559.4	3502.3	3400.3	3313.3
10°	3886.5	3880.5	3874.5	3829.5	3763.4	3718.4	3712.4	3640.4	3568.4	3442.3	3331.3
12.5°	4066.6	4054.5	4048.5	3994.5	3898.5	3850.5	3841.5	3745.4	3655.4	3502.3	3367.3
15°	4255.6	4246.6	4237.6	4186.6	4078.6	4015.5	4000.5	3880.5	3757.4	3580.4	3421.3
17.5°	4396.7	4387.7	4387.7	4342.7	4243.6	4171.6	4159.6	4015.5	3862.5	3652.4	3463.3
20°	4483.7	4474.7	4483.7	4456.7	4381.7	4321.6	4309.6	4150.6	3967.5	3718.4	3499.3
22.5°	4546.7	4537.7	4552.7	4540.7	4486.7	4450.7	4441.7	4285.6	4075.6	3787.4	3535.3
25°	4657.8	4657.8	4657.8	4636.8	4585.8	4573.7	4573.7	4438.7	4213.6	3877.5	3589.4
27.5°	4879.9	4867.9	4852.9	4792.8	4705.8	4702.8	4720.8	4594.8	4372.7	3994.5	3655.4
30°	5207.0	5201.0	5144.0	5017.9	4870.9	4855.9	4867.9	4762.8	4543.7	4117.6	3730.4
32.5°	5630.1	5609.1	5492.1	5303.0	5092.9	5023.9	5047.9	4936.9	4723.8	4243.6	3802.5
35°	5930.3	5936.3	5852.2	5681.2	5432.1	5249.0	5267.0	5132.0	4918.9	4384.7	3892.5
37.5°	6275.4	6296.4	6170.4	6041.3	5810.2	5498.1	5516.1	5333.0	5114.0	4561.7	3988.5
40°	6752.6	6710.6	6497.5	6344.4	6089.3	5759.2	5774.2	5558.1	5339.0	4729.8	4099.6
42.5°	7151.7	7076.7	6818.6	6623.5	6317.4	6035.3	6050.3	5801.2	5567.1	4915.9	4222.6
45°	7724.9	7517.9	7145.7	7049.7	6551.5	6305.4	6320.4	6059.3	5807.2	5114.0	4354.7
47.5°	8058.1	7727.9	7490.9	7439.8	6809.6	6584.5	6602.5	6332.4	6065.3	5339.0	4492.7
50°	8037.1	7824.0	7755.0	7628.9	7037.7	6845.6	6863.6	6614.5	6326.4	5561.1	4624.8
52.5°	7899.0	7938.0	7902.0	7691.9	7265.8	7097.7	7118.7	6893.6	6593.5	5768.2	4747.8
55°	8112.1	8139.1	8070.1	7794.0	7517.9	7349.8	7373.8	7187.7	6857.6	5951.3	4852.9
57.5°	8367.2	8271.2	8202.1	7974.0	7779.0	7622.9	7649.9	7487.9	7085.7	6098.3	4933.9
60°	8355.2	8154.1	8223.1	7986.0	7956.0	7875.0	7899.0	7734.0	7259.8	6206.4	4966.9
62.5°	7740.0	7631.9	7980.0	7899.0	8100.1	8100.1	8130.1	7884.0	7364.8	6251.4	4948.9
65°	6671.5	6677.5	7289.8	7625.9	8271.2	8409.2	8433.2	7977.0	7304.8	6119.3	4780.8
67.5°	5315.0	5354.0	6233.4	6932.6	8100.1	8619.3	8622.3	8061.1	7046.7	5747.2	4390.7
70°	3889.5	3919.5	4957.9	5807.2	7292.8	8154.1	8106.1	7824.0	6485.5	5098.9	3781.4
72.5°	2629.0	2656.0	3724.4	4459.7	5984.3	6944.7	6839.6	6914.6	5528.1	4189.6	3040.2
75°	1767.7	1800.7	2650.0	3190.2	4402.7	5273.0	5038.9	5237.0	4276.6	3172.2	2217.8
77.5°	1113.4	1134.4	1683.6	2091.8	3007.1	3589.4	3355.3	3358.3	2463.9	1707.7	1191.5
80°	708.3	714.3	1020.4	1206.5	1740.7	2157.8	1908.7	1551.6	1110.4	906.3	711.3
82.5°	411.2	402.2	609.2	681.3	828.3	819.3	678.3	642.2	486.2	453.2	363.1
85°	165.1	153.1	267.1	249.1	252.1	267.1	198.1	198.1	159.1	123.0	90.0
87.5°	33.0	33.0	36.0	33.0	33.0	36.0	27.0	27.0	24.0	24.0	24.0
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°	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3	3289.3
2.5°	3265.2	3259.2	3244.2	3205.2	3184.2	3172.2	3154.2	3148.2	3145.2	3148.2	3157.2
5°	3274.2	3253.2	3211.2	3148.2	3106.2	3079.2	3049.2	3037.2	3028.2	3028.2	3037.2
7.5°	3280.3	3247.2	3175.2	3082.2	3022.2	2980.1	2944.1	2929.1	2926.1	2935.1	2938.1
10°	3283.3	3235.2	3133.2	3016.2	2938.1	2884.1	2848.1	2839.1	2848.1	2866.1	2869.1
12.5°	3304.3	3238.2	3109.2	2971.1	2878.1	2824.1	2797.1	2797.1	2821.1	2854.1	2857.1
15°	3340.3	3259.2	3097.2	2935.1	2839.1	2791.1	2782.1	2797.1	2833.1	2884.1	2890.1
17.5°	3367.3	3271.2	3070.2	2887.1	2788.1	2758.1	2773.1	2809.1	2860.1	2929.1	2935.1
20°	3385.3	3271.2	3031.2	2830.1	2737.0	2731.0	2773.1	2830.1	2884.1	2965.1	2974.1
22.5°	3403.3	3265.2	2986.1	2761.1	2680.0	2698.0	2776.1	2848.1	2902.1	2989.1	3004.1
25°	3436.3	3274.2	2941.1	2692.0	2620.0	2671.0	2773.1	2860.1	2917.1	3007.1	3031.2
27.5°	3481.3	3295.3	2908.1	2629.0	2560.0	2629.0	2752.1	2857.1	2917.1	3004.1	3031.2
30°	3529.3	3319.3	2869.1	2560.0	2491.0	2569.0	2707.0	2824.1	2893.1	2974.1	3007.1
32.5°	3580.4	3346.3	2836.1	2484.9	2406.9	2487.9	2641.0	2773.1	2848.1	2923.1	2959.1
35°	3649.4	3394.3	2818.1	2424.9	2331.9	2403.9	2557.0	2707.0	2788.1	2857.1	2899.1
37.5°	3733.4	3454.3	2809.1	2364.9	2250.9	2310.9	2466.9	2626.0	2713.0	2770.1	2809.1
40°	3829.5	3529.3	2806.1	2307.9	2169.8	2214.8	2373.9	2533.0	2617.0	2662.0	2695.0
42.5°	3937.5	3613.4	2800.1	2250.9	2088.8	2124.8	2283.9	2439.9	2512.0	2551.0	2581.0
45°	4051.5	3697.4	2788.1	2181.8	2001.8	2043.8	2190.8	2328.9	2403.9	2436.9	2469.9
47.5°	4165.6	3781.4	2764.1	2103.8	1923.7	1962.7	2091.8	2211.8	2271.9	2301.9	2334.9
50°	4276.6	3856.5	2707.0	2013.8	1842.7	1878.7	1977.8	2058.8	2103.8	2127.8	2160.8
52.5°	4375.7	3907.5	2626.0	1908.7	1761.7	1779.7	1845.7	1914.7	1950.7	1953.7	1983.8
55°	4459.7	3934.5	2509.0	1800.7	1674.6	1677.6	1713.7	1767.7	1782.7	1770.7	1791.7
57.5°	4507.7	3919.5	2379.9	1689.6	1584.6	1572.6	1599.6	1626.6	1629.6	1599.6	1620.6
60°	4519.7	3850.5	2211.8	1578.6	1494.6	1461.6	1470.6	1464.6	1458.6	1446.6	1464.6
62.5°	4459.7	3703.4	2025.8	1470.6	1398.5	1347.5	1344.5	1341.5	1350.5	1353.5	1356.5
65°	4240.6	3427.3	1803.7	1359.5	1296.5	1227.5	1224.5	1260.5	1272.5	1254.5	1260.5
67.5°	3817.5	3004.1	1560.6	1230.5	1167.4	1107.4	1131.4	1152.4	1173.4	1167.4	1173.4
70°	3217.2	2466.9	1338.5	1086.4	1026.4	993.4	1020.4	1038.4	1041.4	1035.4	1041.4
72.5°	2530.0	1926.7	1131.4	939.4	885.3	870.3	903.3	918.4	945.4	957.4	960.4
75°	1827.7	1422.5	927.4	780.3	735.3	735.3	765.3	792.3	816.3	801.3	792.3
77.5°	1020.4	849.3	666.3	537.2	546.2	588.2	600.2	630.2	654.2	651.2	645.2
80°	618.2	531.2	450.2	348.1	345.1	378.1	456.2	507.2	519.2	492.2	489.2
82.5°	321.1	279.1	240.1	195.1	216.1	252.1	264.1	318.1	351.1	339.1	354.1
85°	81.0	78.0	87.0	90.0	111.0	123.0	135.1	159.1	105.0	51.0	51.0
87.5°	24.0	24.0	30.0	30.0	39.0	48.0	45.0	45.0	24.0	3.0	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)