

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: P841368

Luminaire Tested: **ARCH4-170-722-U-T4W**

Issue Date: 5/27/2024

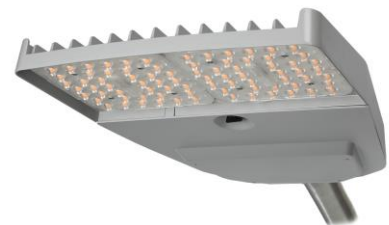
Test Information

Test Method: LM-79-08
Report Number: P841368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23308 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

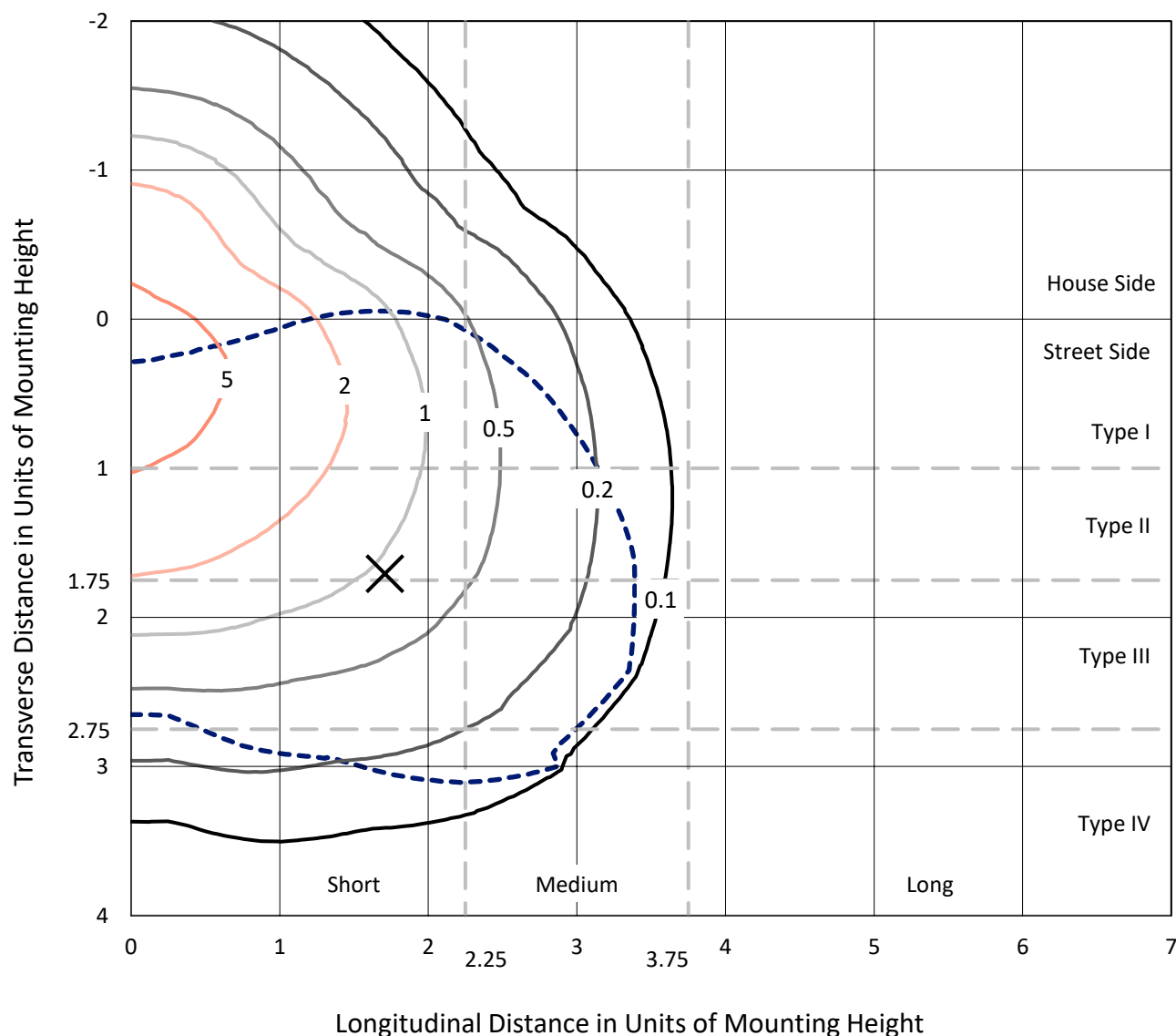
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841368
 CATALOG NUMBER: ARCH4-170-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

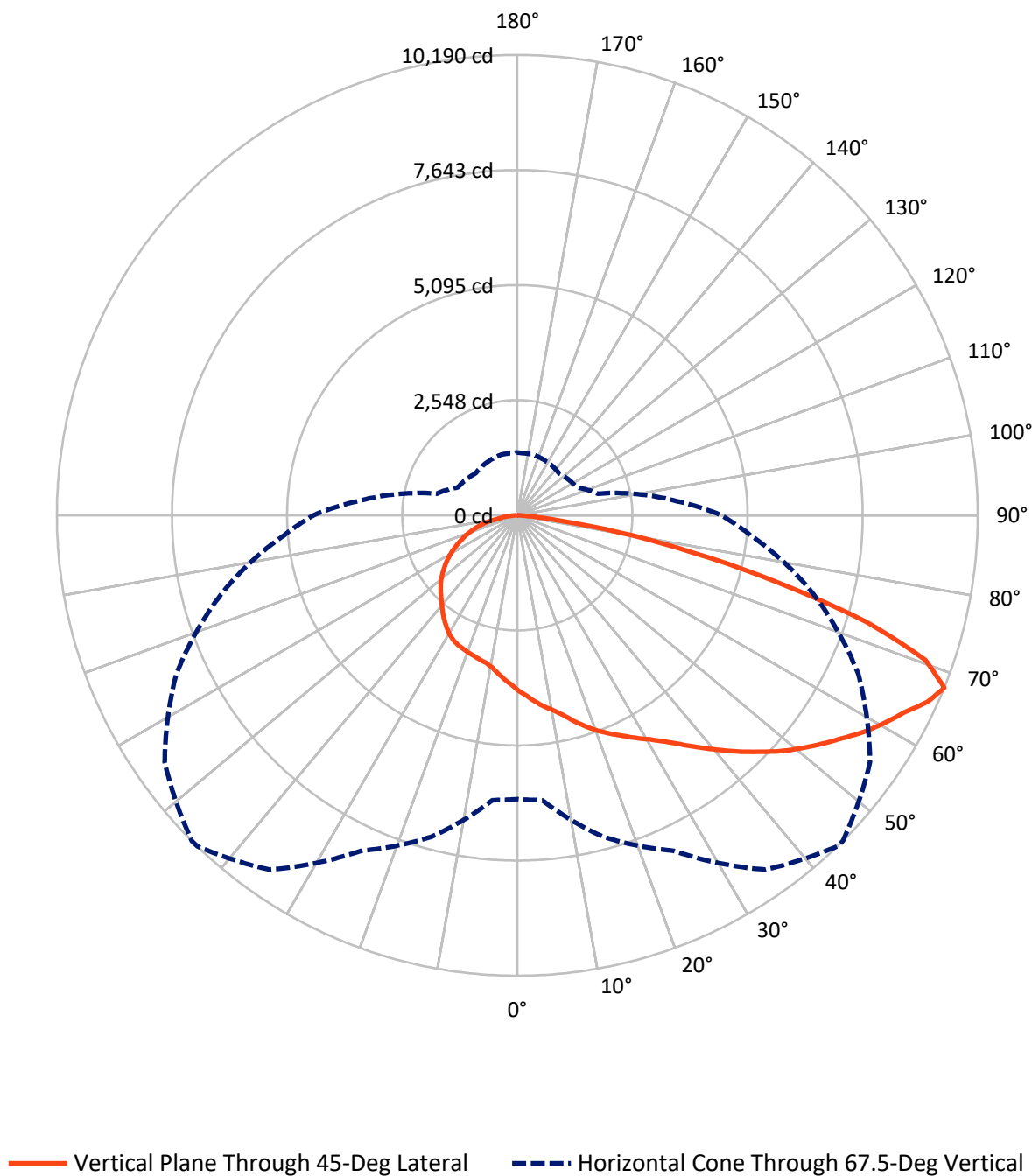
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P841368
CATALOG NUMBER: ARCH4-170-722-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841368

CATALOG NUMBER: ARCH4-170-722-U-T4W

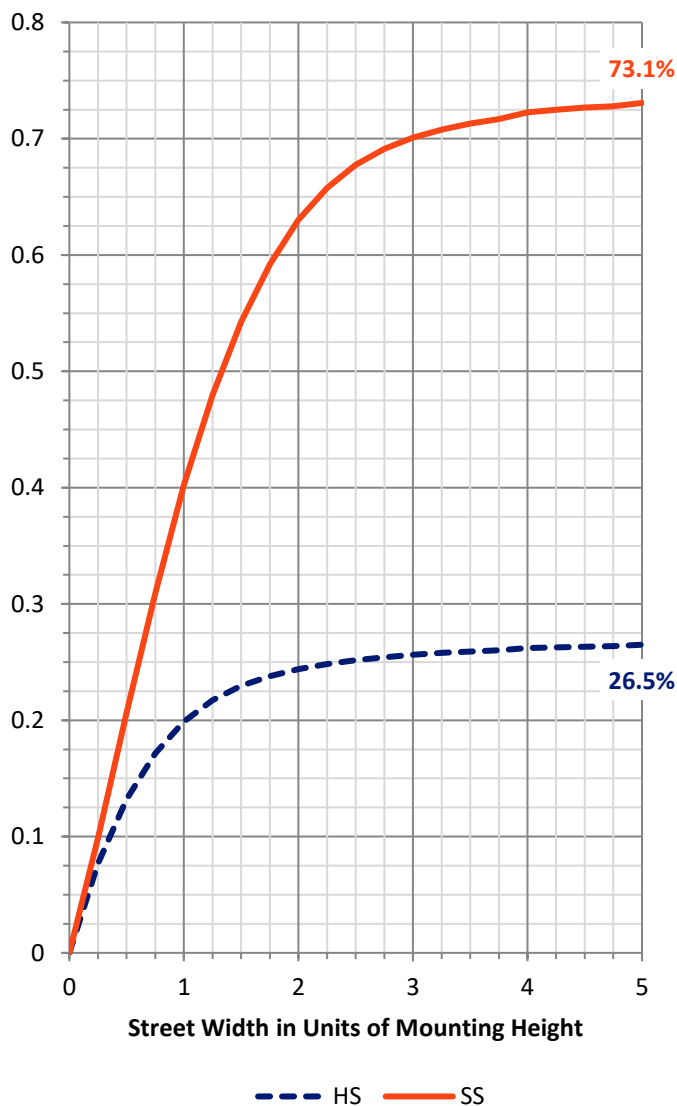
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6226.7	0.0	6226.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17081.2	0.0	17081.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	23308.0	0.0	23308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	1.6
10°-20°	1149.7	4.9
20°-30°	1984.6	8.5
30°-40°	2926.6	12.6
40°-50°	3965.0	17.0
50°-60°	4846.1	20.8
60°-70°	4998.1	21.4
70°-80°	2737.6	11.7
80°-90°	328.1	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°	23308.0	100.0
0°-180°	23308.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841368

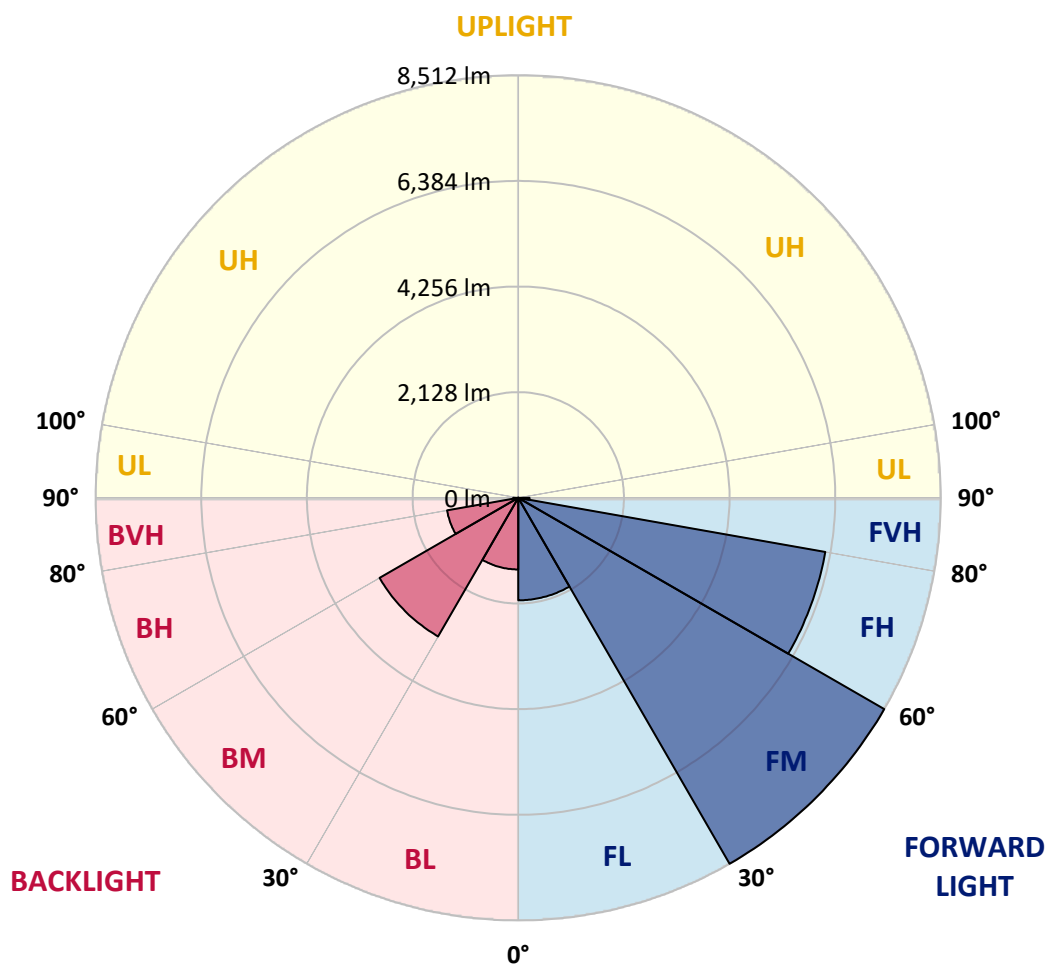
CATALOG NUMBER: ARCH4-170-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2063.4	8.9			
FM	(30°-60°)	8512.3	36.5			
FH	(60°-80°)	6279.5	26.9			G3/7500
FVH	(80°-90°)	226.0	1.0			G3/500
BL	(0°-30°)	1443.1	6.2	B3/2500		
BM	(30°-60°)	3225.3	13.8	B3/5000		
BH	(60°-80°)	1456.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	102.1	0.4			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 IV Short



REPORT NUMBER: P841368

CATALOG NUMBER: ARCH4-170-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3
2.5°	4057.6	4054.0	4061.1	4036.3	4004.4	4000.8	4000.8	3979.6	3954.7	3905.1	3866.1
5°	4249.1	4242.0	4245.6	4210.1	4167.5	4146.3	4142.7	4096.6	4039.8	3961.8	3890.9
7.5°	4426.5	4419.4	4415.8	4376.8	4313.0	4277.5	4273.9	4206.5	4139.2	4018.6	3915.7
10°	4593.2	4586.1	4579.0	4525.8	4447.7	4394.5	4387.4	4302.3	4217.2	4068.2	3937.0
12.5°	4806.0	4791.8	4784.7	4720.8	4607.3	4550.6	4540.0	4426.5	4320.0	4139.2	3979.6
15°	5029.4	5018.8	5008.1	4947.8	4820.2	4745.7	4727.9	4586.1	4440.6	4231.4	4043.4
17.5°	5196.1	5185.5	5185.5	5132.3	5015.2	4930.1	4915.9	4745.7	4564.8	4316.5	4093.0
20°	5299.0	5288.3	5299.0	5267.1	5178.4	5107.4	5093.3	4905.3	4688.9	4394.5	4135.6
22.5°	5373.5	5362.8	5380.6	5366.4	5302.5	5260.0	5249.3	5064.9	4816.6	4476.1	4178.2
25°	5504.7	5504.7	5504.7	5479.9	5419.6	5405.4	5405.4	5245.8	4979.8	4582.5	4242.0
27.5°	5767.2	5753.0	5735.2	5664.3	5561.4	5557.9	5579.2	5430.2	5167.7	4720.8	4320.0
30°	6153.8	6146.7	6079.3	5930.3	5756.5	5738.8	5753.0	5628.8	5369.9	4866.3	4408.7
32.5°	6653.9	6629.0	6490.7	6267.3	6019.0	5937.4	5965.8	5834.5	5582.7	5015.2	4493.8
35°	7008.5	7015.6	6916.3	6714.2	6419.8	6203.4	6224.7	6065.1	5813.3	5181.9	4600.2
37.5°	7416.4	7441.3	7292.3	7139.8	6866.7	6497.8	6519.1	6302.7	6043.8	5391.2	4713.7
40°	7980.4	7930.7	7678.9	7498.0	7196.5	6806.4	6824.1	6568.7	6309.8	5589.8	4845.0
42.5°	8452.1	8363.4	8058.4	7827.9	7466.1	7132.7	7150.4	6856.0	6579.4	5809.7	4990.4
45°	9129.6	8884.8	8445.0	8331.5	7742.7	7451.9	7469.6	7161.1	6863.1	6043.8	5146.5
47.5°	9523.3	9133.1	8852.9	8792.6	8047.8	7781.8	7803.0	7483.8	7168.2	6309.8	5309.6
50°	9498.4	9246.6	9165.0	9016.1	8317.3	8090.3	8111.6	7817.2	7476.7	6572.3	5465.7
52.5°	9335.3	9381.4	9338.8	9090.5	8586.9	8388.3	8413.1	8147.1	7792.4	6817.0	5611.1
55°	9587.1	9619.0	9537.4	9211.1	8884.8	8686.2	8714.6	8494.7	8104.5	7033.4	5735.2
57.5°	9888.6	9775.1	9693.5	9423.9	9193.4	9009.0	9040.9	8849.4	8374.1	7207.2	5831.0
60°	9874.4	9636.8	9718.3	9438.1	9402.7	9306.9	9335.3	9140.2	8579.8	7334.9	5870.0
62.5°	9147.3	9019.6	9431.0	9335.3	9572.9	9572.9	9608.4	9317.5	8703.9	7388.1	5848.7
65°	7884.6	7891.7	8615.3	9012.5	9775.1	9938.2	9966.6	9427.5	8633.0	7232.0	5650.1
67.5°	6281.4	6327.6	7366.8	8193.2	9572.9	10186.5	10190.1	9526.8	8328.0	6792.2	5189.0
70°	4596.7	4632.2	5859.4	6863.1	8618.8	9636.8	9580.0	9246.6	7664.7	6026.1	4469.0
72.5°	3107.0	3138.9	4401.6	5270.6	7072.4	8207.4	8083.2	8171.9	6533.3	4951.4	3592.9
75°	2089.1	2128.1	3131.9	3770.3	5203.2	6231.8	5955.1	6189.2	5054.2	3749.0	2621.1
77.5°	1315.9	1340.7	1989.8	2472.1	3553.9	4242.0	3965.4	3968.9	2912.0	2018.1	1408.1
80°	837.1	844.1	1205.9	1425.8	2057.2	2550.2	2255.8	1833.7	1312.3	1071.1	840.6
82.5°	485.9	475.3	720.0	805.1	978.9	968.3	801.6	759.0	574.6	535.6	429.2
85°	195.1	180.9	315.7	294.4	297.9	315.7	234.1	234.1	188.0	145.4	106.4
87.5°	39.0	39.0	42.6	39.0	39.0	42.6	31.9	31.9	28.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841368

CATALOG NUMBER: ARCH4-170-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3
2.5°	3859.0	3851.9	3834.1	3788.0	3763.2	3749.0	3727.7	3720.6	3717.1	3720.6	3731.3
5°	3869.6	3844.8	3795.1	3720.6	3671.0	3639.1	3603.6	3589.4	3578.8	3578.8	3589.4
7.5°	3876.7	3837.7	3752.6	3642.6	3571.7	3522.0	3479.4	3461.7	3458.2	3468.8	3472.4
10°	3880.2	3823.5	3702.9	3564.6	3472.4	3408.5	3365.9	3355.3	3365.9	3387.2	3390.8
12.5°	3905.1	3827.0	3674.5	3511.4	3401.4	3337.6	3305.7	3305.7	3334.0	3373.0	3376.6
15°	3947.6	3851.9	3660.3	3468.8	3355.3	3298.6	3287.9	3305.7	3348.2	3408.5	3415.6
17.5°	3979.6	3866.1	3628.4	3412.1	3295.0	3259.5	3277.3	3319.8	3380.1	3461.7	3468.8
20°	4000.8	3866.1	3582.3	3344.7	3234.7	3227.6	3277.3	3344.7	3408.5	3504.3	3514.9
22.5°	4022.1	3859.0	3529.1	3263.1	3167.3	3188.6	3280.8	3365.9	3429.8	3532.6	3550.4
25°	4061.1	3869.6	3475.9	3181.5	3096.4	3156.7	3277.3	3380.1	3447.5	3553.9	3582.3
27.5°	4114.3	3894.4	3436.9	3107.0	3025.5	3107.0	3252.4	3376.6	3447.5	3550.4	3582.3
30°	4171.1	3922.8	3390.8	3025.5	2943.9	3036.1	3199.2	3337.6	3419.1	3514.9	3553.9
32.5°	4231.4	3954.7	3351.8	2936.8	2844.6	2940.3	3121.2	3277.3	3365.9	3454.6	3497.2
35°	4313.0	4011.5	3330.5	2865.8	2755.9	2841.0	3021.9	3199.2	3295.0	3376.6	3426.2
37.5°	4412.3	4082.4	3319.8	2794.9	2660.1	2731.1	2915.5	3103.5	3206.3	3273.7	3319.8
40°	4525.8	4171.1	3316.3	2727.5	2564.4	2617.6	2805.5	2993.5	3092.8	3146.0	3185.1
42.5°	4653.4	4270.4	3309.2	2660.1	2468.6	2511.2	2699.1	2883.6	2968.7	3014.8	3050.3
45°	4788.2	4369.7	3295.0	2578.5	2365.7	2415.4	2589.2	2752.3	2841.0	2880.0	2919.0
47.5°	4923.0	4469.0	3266.6	2486.3	2273.5	2319.6	2472.1	2614.0	2685.0	2720.4	2759.4
50°	5054.2	4557.7	3199.2	2379.9	2177.8	2220.3	2337.4	2433.1	2486.3	2514.7	2553.7
52.5°	5171.3	4618.0	3103.5	2255.8	2082.0	2103.3	2181.3	2262.9	2305.4	2309.0	2344.5
55°	5270.6	4649.9	2965.2	2128.1	1979.1	1982.7	2025.2	2089.1	2106.8	2092.6	2117.5
57.5°	5327.3	4632.2	2812.6	1996.9	1872.7	1858.5	1890.5	1922.4	1925.9	1890.5	1915.3
60°	5341.5	4550.6	2614.0	1865.6	1766.3	1727.3	1737.9	1730.9	1723.8	1709.6	1730.9
62.5°	5270.6	4376.8	2394.1	1737.9	1652.8	1592.5	1589.0	1585.4	1596.1	1599.6	1603.2
65°	5011.7	4050.5	2131.6	1606.7	1532.2	1450.7	1447.1	1489.7	1503.9	1482.6	1489.7
67.5°	4511.6	3550.4	1844.4	1454.2	1379.7	1308.8	1337.2	1362.0	1386.8	1379.7	1386.8
70°	3802.2	2915.5	1581.9	1284.0	1213.0	1174.0	1205.9	1227.2	1230.8	1223.7	1230.8
72.5°	2990.0	2277.1	1337.2	1110.2	1046.3	1028.6	1067.6	1085.3	1117.3	1131.4	1135.0
75°	2160.0	1681.2	1096.0	922.2	869.0	869.0	904.4	936.4	964.7	947.0	936.4
77.5°	1205.9	1003.8	787.4	634.9	645.5	695.2	709.4	744.8	773.2	769.7	762.6
80°	730.6	627.8	532.0	411.4	407.9	446.9	539.1	599.4	613.6	581.7	578.1
82.5°	379.5	329.9	283.7	230.5	255.4	297.9	312.1	376.0	415.0	400.8	418.5
85°	95.8	92.2	102.9	106.4	131.2	145.4	159.6	188.0	124.1	60.3	60.3
87.5°	28.4	28.4	35.5	35.5	46.1	56.7	53.2	53.2	28.4	3.5	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)