

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: P1210551

Luminaire Tested: **ARCH3-160-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210551
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: ARCH3-160-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18890 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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

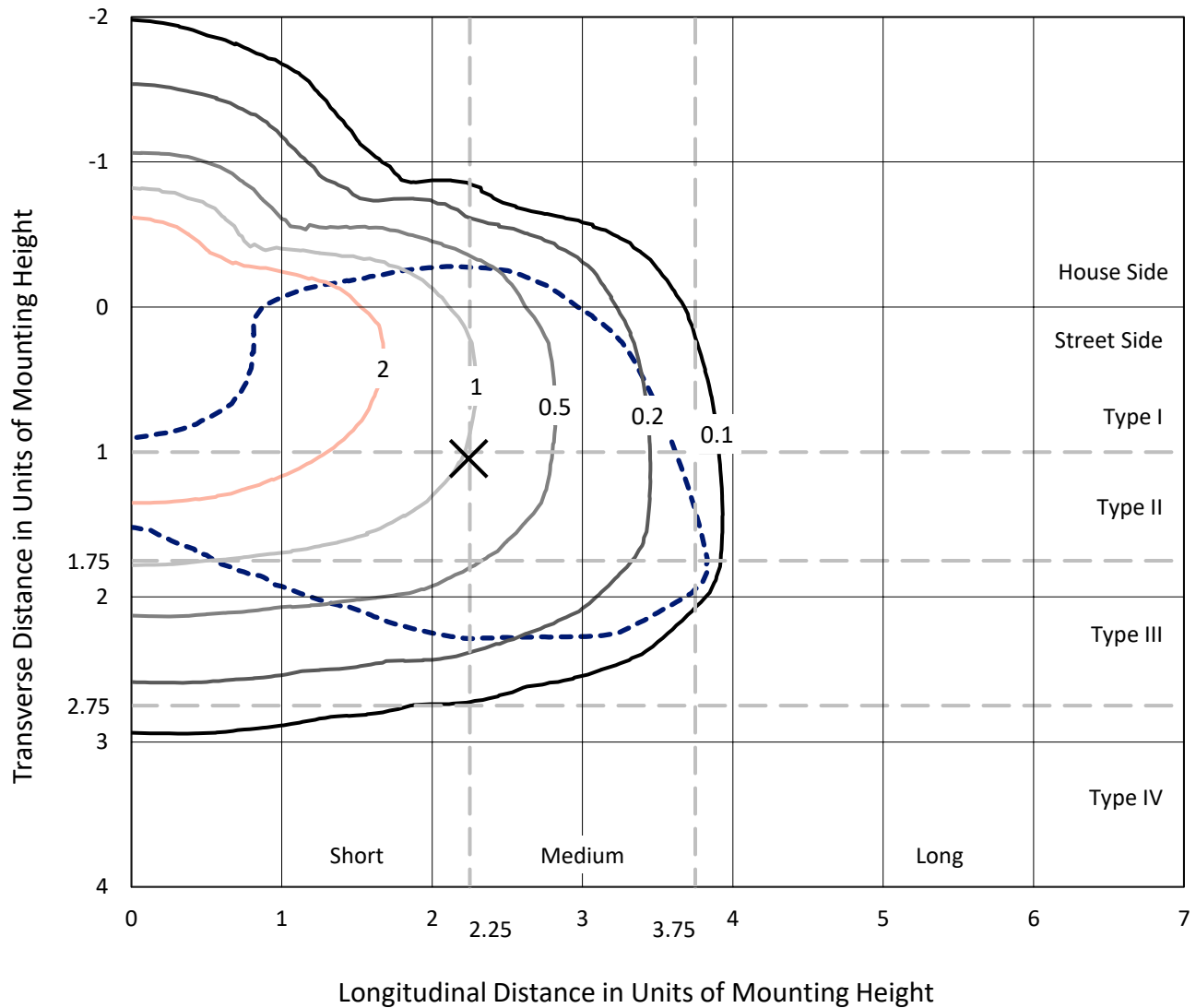


REPORT NUMBER: P1210551

CATALOG NUMBER: ARCH3-160-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

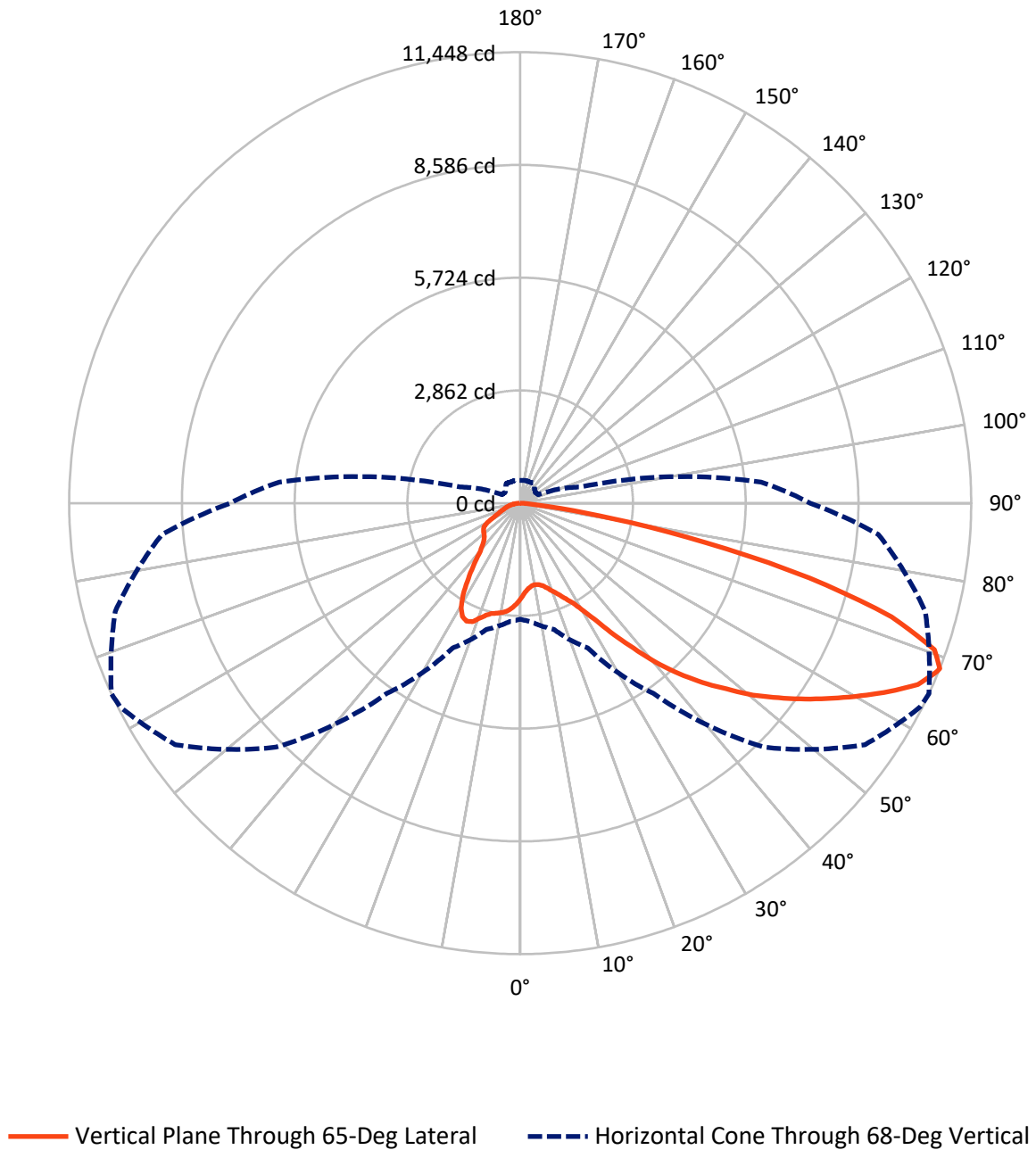


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

REPORT NUMBER: P1210551

CATALOG NUMBER: ARCH3-160-722-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210551

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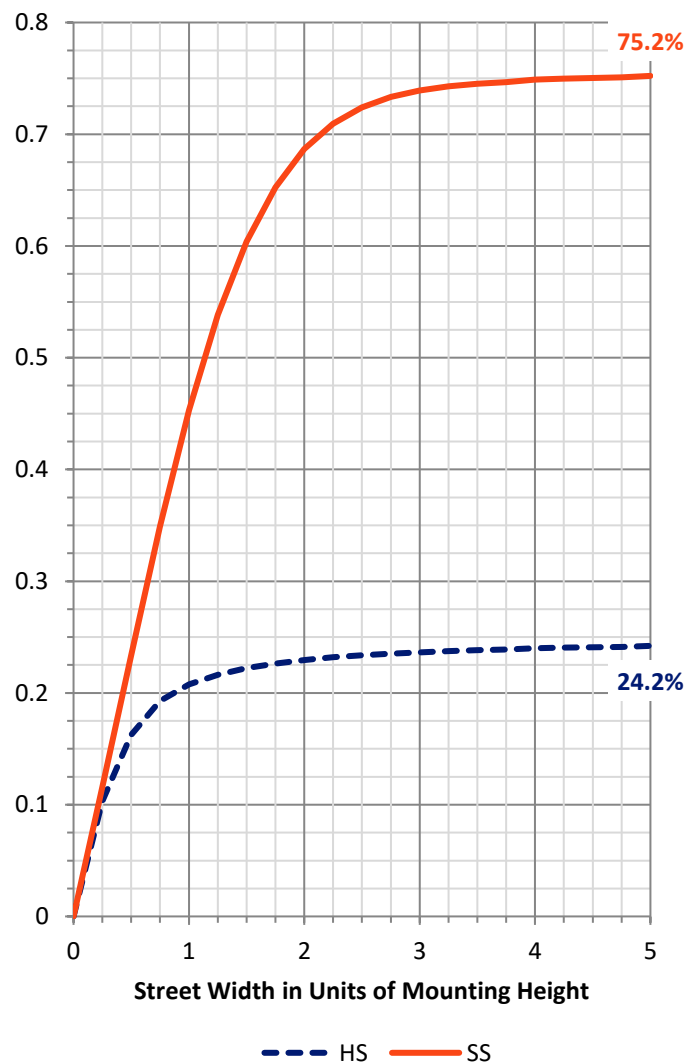
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4631.3	0.0	4631.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14258.7	0.0	14258.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	18890.0	0.0	18890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.2
10°-20°	751.1	4.0
20°-30°	1359.5	7.2
30°-40°	2138.7	11.3
40°-50°	3185.3	16.9
50°-60°	4178.5	22.1
60°-70°	4569.4	24.2
70°-80°	2261.1	12.0
80°-90°	215.7	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°	18890.0	100.0
0°-180°	18890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210551

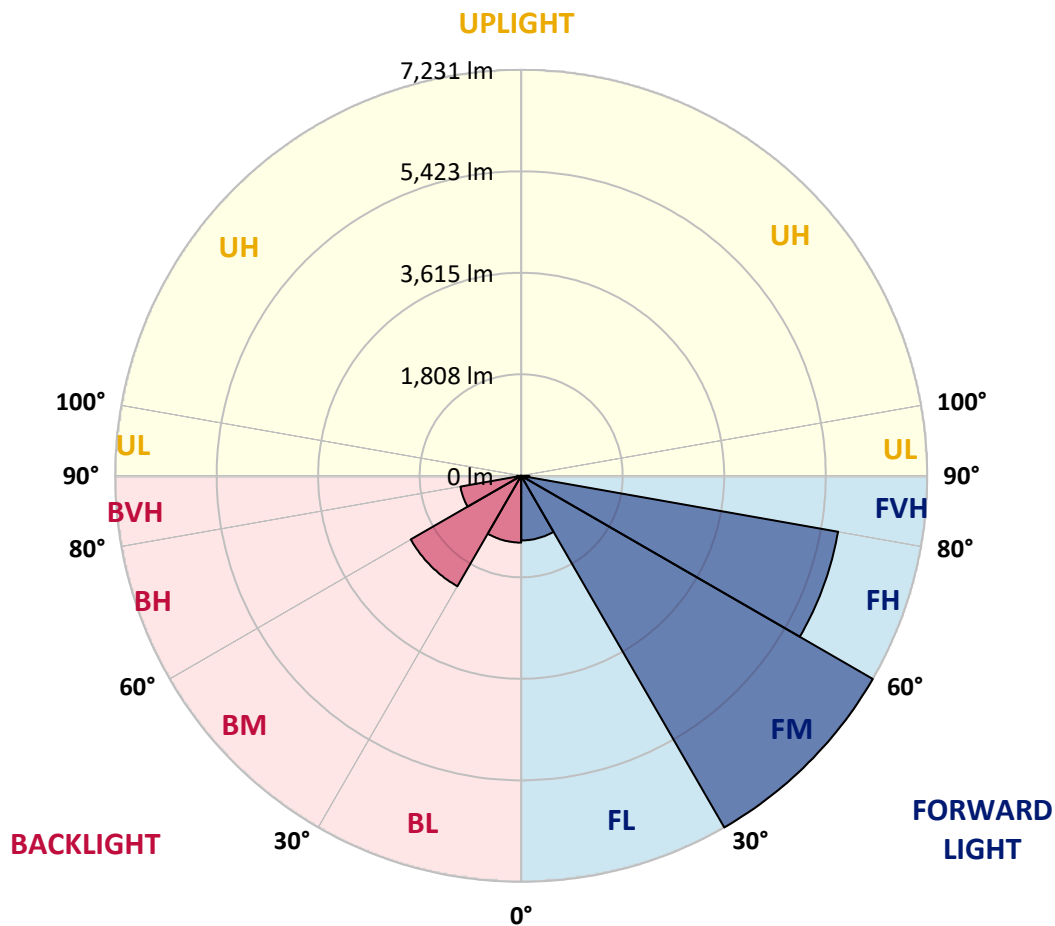
CATALOG NUMBER: ARCH3-160-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1151.6	6.1			
FM	(30°-60°)	7230.8	38.3			
FH	(60°-80°)	5731.3	30.3			G3/7500
FVH	(80°-90°)	145.1	0.8			G2/225
BL	(0°-30°)	1189.8	6.3	B3/2500		
BM	(30°-60°)	2271.6	12.0	B2/2500		
BH	(60°-80°)	1099.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	70.6	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



REPORT NUMBER: P1210551

CATALOG NUMBER: ARCH3-160-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9
2.5°	2107.0	2102.1	2114.3	2126.5	2153.3	2184.9	2228.8	2265.3	2270.2	2338.4	2392.0
5°	1982.8	1975.5	1987.6	2002.3	2014.4	2053.4	2099.7	2153.3	2175.2	2275.1	2389.6
7.5°	1994.9	1992.5	1997.4	1992.5	1992.5	2009.6	2041.2	2094.8	2119.2	2238.5	2401.7
10°	2065.6	2070.5	2072.9	2058.3	2043.7	2036.4	2046.1	2082.6	2099.7	2241.0	2455.3
12.5°	2182.5	2189.8	2192.3	2165.5	2146.0	2114.3	2097.3	2111.9	2124.0	2265.3	2530.8
15°	2340.8	2345.7	2328.7	2311.6	2262.9	2223.9	2182.5	2170.3	2175.2	2316.5	2616.1
17.5°	2526.0	2518.7	2518.7	2477.2	2413.9	2353.0	2284.8	2275.1	2275.1	2399.3	2737.9
20°	2728.1	2735.4	2713.5	2657.5	2594.2	2499.2	2431.0	2387.1	2392.0	2494.3	2886.5
22.5°	3020.4	3032.6	2974.2	2893.8	2796.3	2686.7	2589.3	2518.7	2521.1	2618.5	3039.9
25°	3334.7	3339.5	3303.0	3195.8	3064.3	2908.4	2779.3	2689.2	2686.7	2757.4	3237.2
27.5°	3656.2	3678.1	3605.0	3502.7	3380.9	3186.1	3015.6	2893.8	2874.3	2969.3	3483.2
30°	3987.5	4014.3	3943.6	3843.7	3692.7	3527.1	3324.9	3183.6	3171.5	3298.1	3812.1
32.5°	4321.2	4328.5	4272.5	4189.6	4053.2	3897.3	3734.1	3578.2	3566.1	3773.1	4238.4
35°	4594.0	4615.9	4576.9	4557.4	4457.6	4313.9	4155.5	4065.4	4097.1	4362.6	4791.3
37.5°	4922.8	4944.7	4900.9	4896.0	4864.4	4740.1	4630.5	4637.8	4669.5	5030.0	5373.5
40°	5397.8	5422.2	5310.1	5261.4	5261.4	5139.6	5103.1	5276.0	5317.4	5687.7	5980.0
42.5°	5799.7	5838.7	5772.9	5741.3	5646.3	5561.0	5604.9	5848.4	5919.1	6316.1	6508.6
45°	5994.6	6023.8	6101.8	6194.3	6101.8	5953.2	6118.8	6394.1	6493.9	6895.8	7037.1
47.5°	6099.3	6126.1	6216.3	6464.7	6528.0	6403.8	6637.6	6981.1	7049.3	7470.7	7541.3
50°	6113.9	6199.2	6316.1	6564.6	6854.4	6871.5	7158.9	7577.9	7658.3	8035.8	7984.7
52.5°	5994.6	6028.7	6269.8	6688.8	7010.3	7302.6	7726.5	8150.3	8208.8	8566.8	8376.8
55°	5799.7	5848.4	6089.6	6659.6	7161.4	7711.9	8303.8	8713.0	8778.7	9083.2	8739.8
57.5°	5624.3	5648.7	5906.9	6574.3	7312.4	8121.1	8817.7	9300.0	9343.9	9536.3	9007.7
60°	5429.5	5456.3	5714.5	6391.6	7424.4	8430.4	9353.6	9891.9	9930.9	10013.7	9319.5
62.5°	4925.3	4995.9	5319.9	6089.6	7395.2	8783.6	9926.0	10476.5	10525.2	10435.1	9565.5
65°	3999.6	4099.5	4496.6	5405.1	7122.4	9012.6	10393.7	11014.8	11097.7	10751.8	9631.3
67.5°	3105.7	3176.3	3495.4	4289.5	6165.1	8898.1	10695.8	11385.1	11409.5	10700.6	9265.9
68°	2944.9	3015.6	3320.0	4055.7	5899.6	8761.7	10688.4	11394.8	11448.4	10644.6	9124.6
70°	2253.1	2333.5	2623.4	3212.9	4754.7	7894.5	10242.7	11161.0	11153.7	9967.4	8247.7
72.5°	1407.9	1454.2	1653.9	2026.6	3144.7	6006.8	8693.5	9843.2	9862.7	8125.9	6325.9
75°	894.0	894.0	884.2	981.6	1612.5	3422.3	6462.3	7577.9	7592.5	5690.1	3987.5
77.5°	777.0	755.1	650.4	550.5	643.1	1330.0	3824.3	4893.6	4813.2	3064.3	1892.6
80°	655.2	618.7	533.4	443.3	414.1	416.5	1468.8	2484.6	2377.4	1103.4	628.4
82.5°	472.6	440.9	401.9	348.3	319.1	248.5	306.9	718.6	701.5	319.1	204.6
85°	255.8	231.4	226.5	229.0	192.4	153.5	129.1	158.3	158.3	138.8	116.9
87.5°	90.1	65.8	77.9	87.7	75.5	63.3	51.2	60.9	63.3	60.9	56.0
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: P1210551

CATALOG NUMBER: ARCH3-160-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9	2413.9
2.5°	2423.7	2448.0	2506.5	2557.6	2594.2	2625.8	2642.9	2650.2	2667.2	2669.7	2664.8
5°	2443.1	2506.5	2594.2	2669.7	2711.1	2728.1	2733.0	2735.4	2728.1	2733.0	2728.1
7.5°	2494.3	2574.7	2698.9	2764.7	2772.0	2745.2	2747.6	2737.9	2747.6	2757.4	2757.4
10°	2572.2	2674.5	2791.5	2815.8	2784.2	2769.5	2798.8	2857.2	2876.7	2903.5	2903.5
12.5°	2674.5	2796.3	2879.2	2857.2	2828.0	2876.7	2962.0	3020.4	3039.9	3049.7	3042.4
15°	2791.5	2923.0	2964.4	2891.3	2944.9	3049.7	3078.9	3044.8	2996.1	2974.2	2986.3
17.5°	2940.1	3049.7	3025.3	2976.6	3098.4	3113.0	3018.0	2908.4	2830.4	2801.2	2820.7
20°	3095.9	3190.9	3078.9	3100.8	3176.3	3020.4	2840.2	2698.9	2630.7	2618.5	2638.0
22.5°	3261.6	3322.5	3132.5	3244.5	3132.5	2815.8	2599.0	2526.0	2508.9	2528.4	2545.4
25°	3449.1	3441.8	3225.0	3288.4	2969.3	2564.9	2435.8	2431.0	2431.0	2443.1	2467.5
27.5°	3661.1	3546.6	3317.6	3229.9	2686.7	2357.9	2333.5	2336.0	2328.7	2331.1	2343.3
30°	3907.1	3687.9	3419.9	3037.5	2370.1	2202.0	2192.3	2184.9	2167.9	2163.0	2167.9
32.5°	4216.4	3836.4	3524.7	2720.8	2092.4	2041.2	2036.4	1997.4	1956.0	1951.1	1968.2
35°	4608.6	4106.8	3578.2	2323.8	1863.4	1861.0	1843.9	1783.0	1729.4	1729.4	1717.3
37.5°	5056.8	4455.1	3600.2	1936.5	1673.4	1685.6	1636.9	1558.9	1517.5	1493.2	1500.5
40°	5514.7	4852.2	3597.7	1597.9	1507.8	1510.2	1473.7	1378.7	1276.4	1215.5	1230.1
42.5°	5955.6	5212.7	3534.4	1417.7	1373.8	1366.5	1337.3	1208.2	1122.9	1074.2	1076.6
45°	6308.8	5585.4	3437.0	1310.5	1252.0	1264.2	1198.4	1120.5	1042.5	998.7	996.3
47.5°	6662.0	5867.9	3281.1	1244.7	1161.9	1140.0	1113.2	1059.6	1001.1	952.4	954.8
50°	6983.5	6109.1	3134.9	1200.9	1079.1	1023.1	1027.9	996.3	945.1	901.3	898.8
52.5°	7210.1	6267.4	3054.5	1176.5	979.2	918.3	935.4	918.3	869.6	837.9	835.5
55°	7436.6	6389.2	3081.3	1144.8	869.6	820.9	850.1	845.2	818.4	808.7	811.1
57.5°	7619.3	6481.8	3176.3	1086.4	764.9	735.6	784.3	769.7	750.2	752.7	752.7
60°	7797.1	6601.1	3288.4	952.4	674.7	677.2	723.4	696.6	684.5	706.4	708.8
62.5°	7982.2	6730.2	3195.8	757.5	596.8	613.8	667.4	645.5	650.4	682.0	691.8
65°	7960.3	6718.0	2603.9	621.1	528.6	562.7	643.1	635.8	638.2	650.4	655.2
67.5°	7512.1	6289.3	1790.3	528.6	479.9	521.3	623.6	594.3	596.8	589.5	591.9
68°	7361.1	6138.3	1578.4	514.0	470.1	511.5	613.8	587.0	589.5	582.2	579.7
70°	6537.8	5256.5	998.7	453.1	436.0	484.7	565.1	555.4	552.9	548.1	548.1
72.5°	4983.7	3880.3	526.1	392.2	397.0	443.3	504.2	523.7	511.5	514.0	528.6
75°	3300.6	2333.5	365.4	336.1	348.3	380.0	448.2	487.2	475.0	482.3	475.0
77.5°	1746.5	1256.9	292.3	285.0	285.0	306.9	370.2	431.1	431.1	426.3	419.0
80°	572.4	443.3	233.8	224.1	229.0	241.1	297.2	353.2	360.5	350.8	345.9
82.5°	192.4	204.6	175.4	163.2	168.1	177.8	224.1	270.4	272.8	253.3	248.5
85°	119.4	136.4	109.6	107.2	107.2	109.6	136.4	148.6	136.4	121.8	126.7
87.5°	56.0	68.2	51.2	43.8	36.5	31.7	24.4	9.7	9.7	4.9	4.9
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)