

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: P1210877

Luminaire Tested: **ARCH4-100-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17024 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 103.1
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

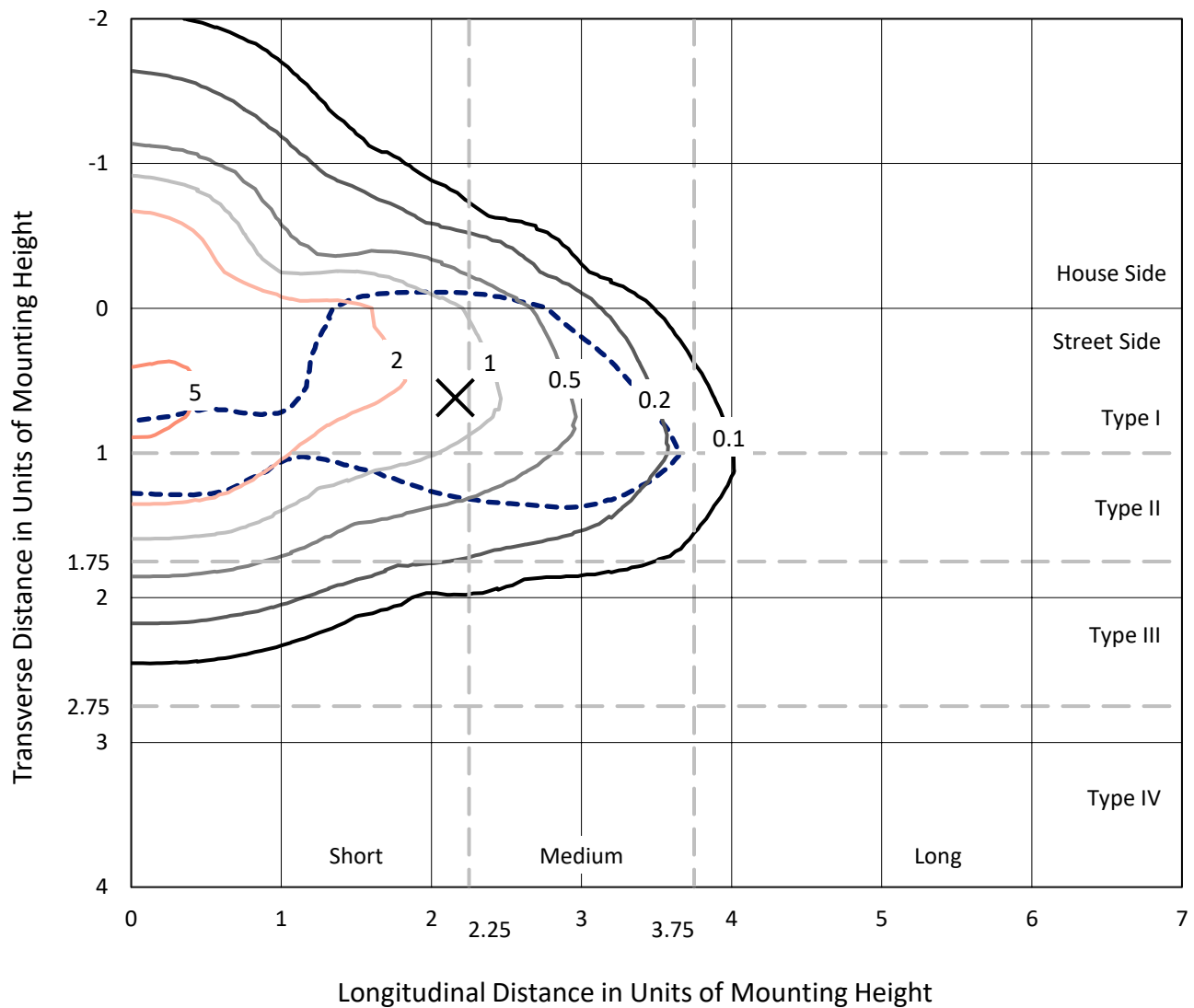


REPORT NUMBER: P1210877

CATALOG NUMBER: ARCH4-100-730-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

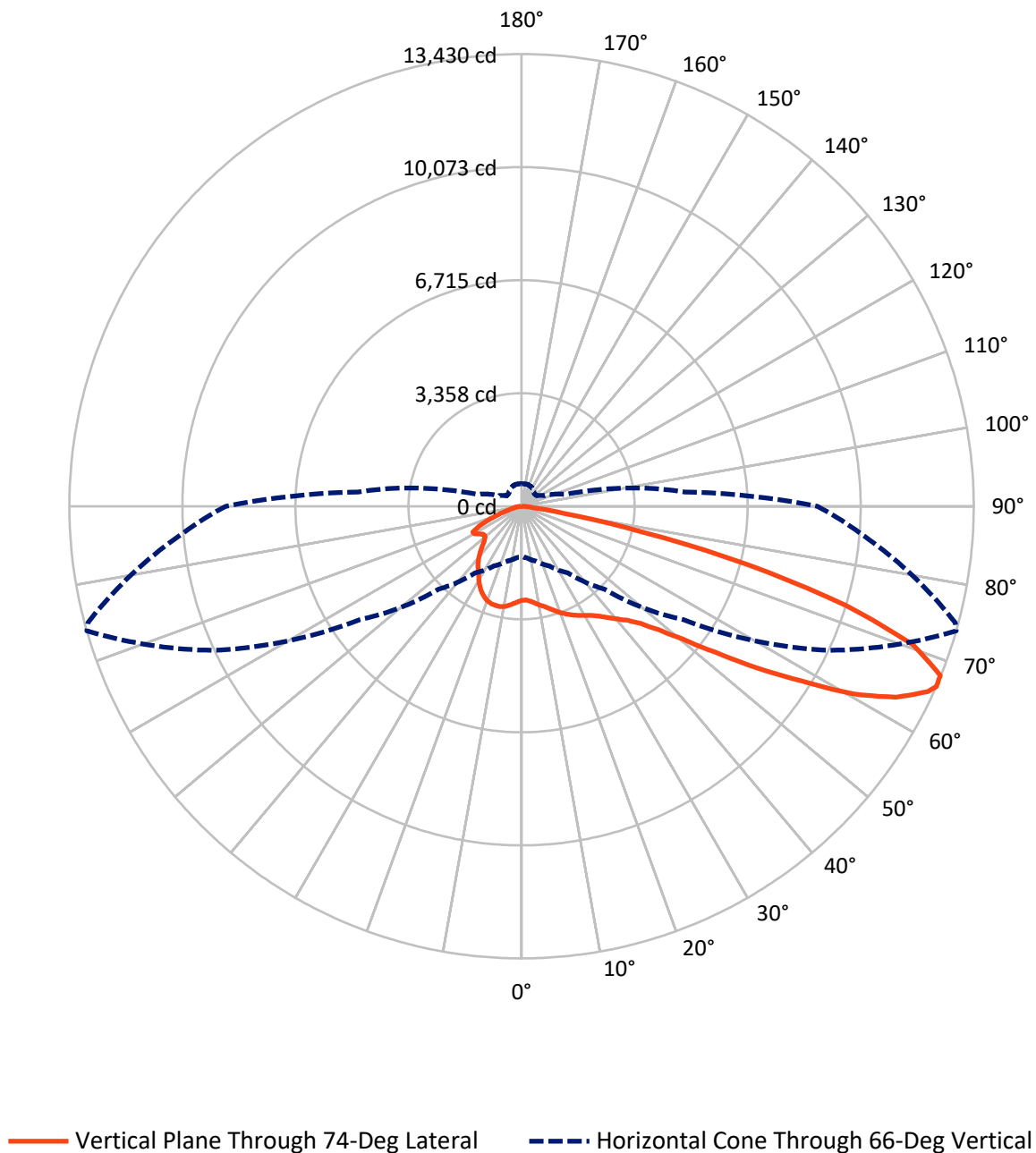


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

REPORT NUMBER: P1210877

CATALOG NUMBER: ARCH4-100-730-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210877

CATALOG NUMBER: ARCH4-100-730-U-T2RE

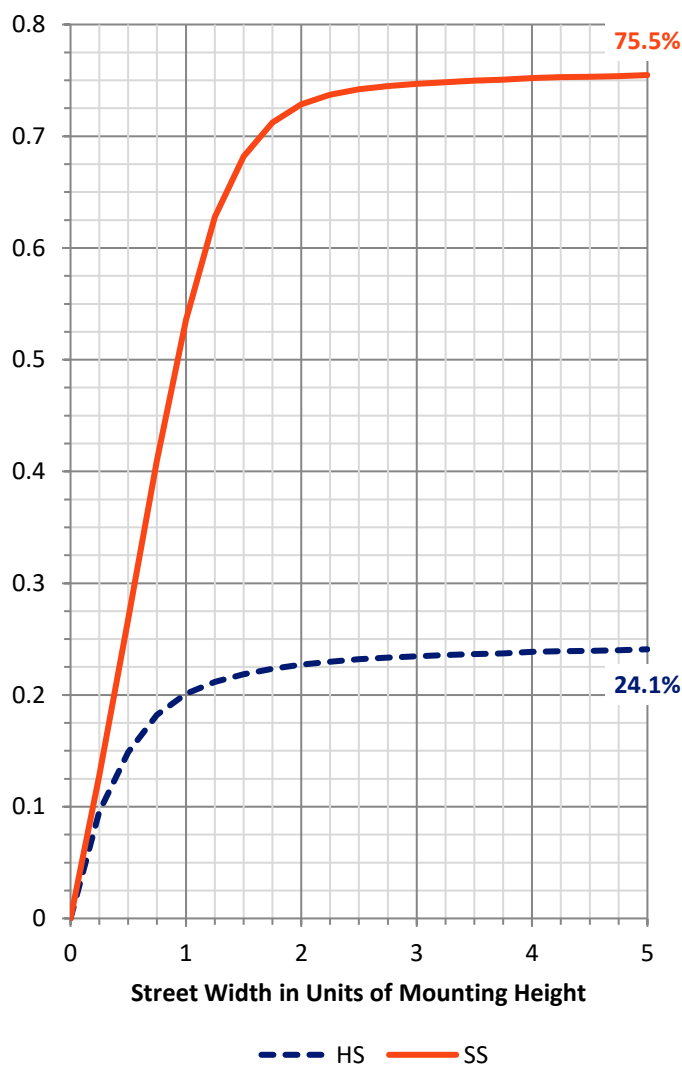
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4145.8	0.0	4145.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12878.2	0.0	12878.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	17024.0	0.0	17024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	1.6
10°-20°	818.7	4.8
20°-30°	1536.2	9.0
30°-40°	2363.1	13.9
40°-50°	3178.6	18.7
50°-60°	3759.1	22.1
60°-70°	3477.3	20.4
70°-80°	1462.9	8.6
80°-90°	161.9	1.0
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°	17024.0	100.0
0°-180°	17024.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210877

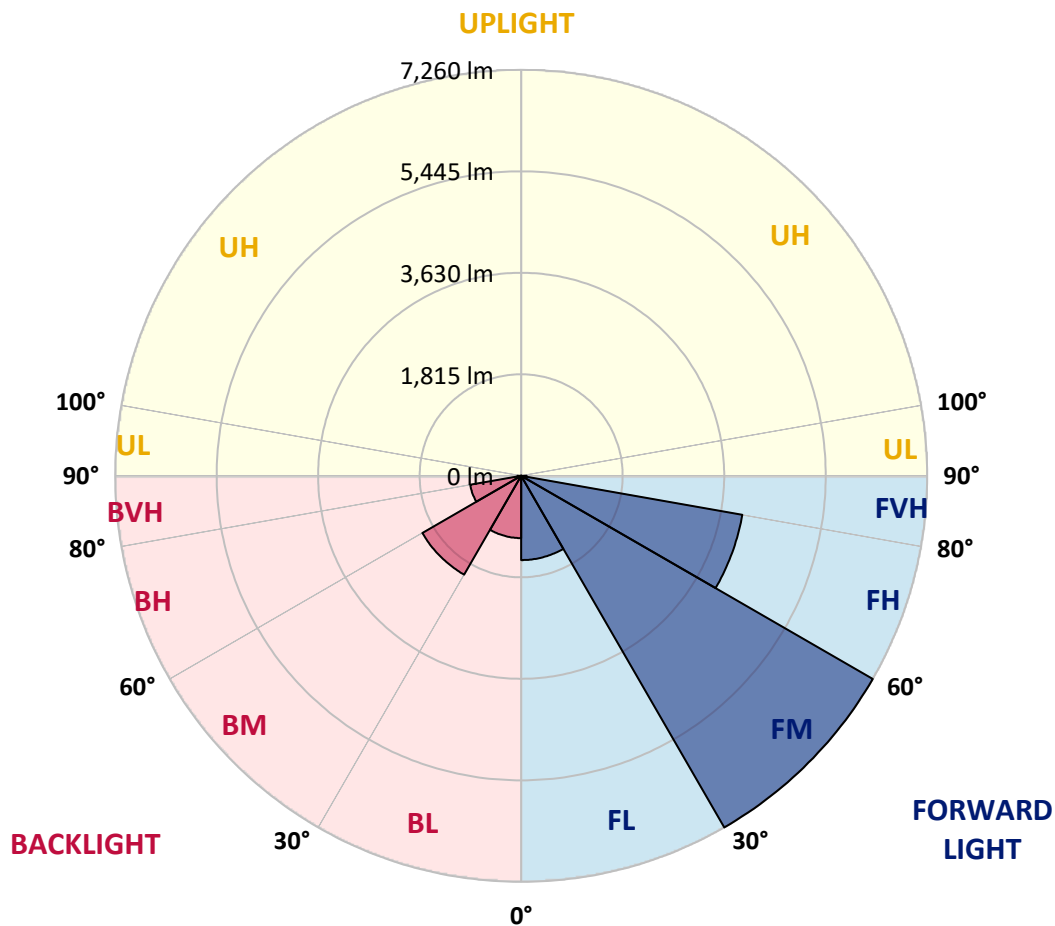
CATALOG NUMBER: ARCH4-100-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.8	8.9			
FM	(30°-60°)	7259.8	42.6			
FH	(60°-80°)	4014.7	23.6			G2/5000
FVH	(80°-90°)	96.8	0.6			G1/100
BL	(0°-30°)	1114.3	6.5	B3/2500		
BM	(30°-60°)	2041.0	12.0	B2/2500		
BH	(60°-80°)	925.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	65.0	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-G2

Type II Short



REPORT NUMBER: P1210877

CATALOG NUMBER: ARCH4-100-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8
2.5°	2782.0	2777.7	2786.4	2799.6	2806.1	2795.2	2790.8	2788.6	2788.6	2782.0	2793.0
5°	2650.6	2648.4	2668.1	2692.2	2738.2	2771.1	2814.9	2841.2	2832.4	2819.3	2828.0
7.5°	2479.7	2475.4	2499.5	2545.5	2609.0	2681.3	2788.6	2871.9	2904.7	2900.3	2898.1
10°	2545.5	2541.1	2538.9	2525.7	2547.6	2617.7	2729.5	2876.2	2988.0	2990.1	2992.3
12.5°	2773.3	2784.2	2773.3	2731.7	2683.5	2657.2	2722.9	2887.2	3058.1	3071.2	3126.0
15°	3084.3	3073.4	3051.5	3003.3	2928.8	2849.9	2801.8	2937.6	3158.8	3169.8	3290.3
17.5°	3358.2	3366.9	3353.8	3307.8	3220.2	3117.2	2970.4	3025.2	3266.2	3296.8	3465.5
20°	3656.1	3691.1	3673.6	3616.6	3544.4	3391.0	3207.0	3152.2	3384.4	3406.4	3647.3
22.5°	4000.0	4037.2	4004.4	3949.6	3890.5	3702.1	3465.5	3307.8	3483.0	3529.0	3822.6
25°	4411.8	4446.9	4416.2	4330.8	4256.3	4026.3	3743.7	3483.0	3579.4	3629.8	3965.0
27.5°	4738.2	4764.5	4793.0	4742.6	4628.7	4389.9	4032.9	3664.8	3675.8	3728.4	4096.4
30°	5029.6	5095.3	5119.4	5126.0	5029.6	4762.3	4328.6	3853.2	3759.0	3813.8	4227.8
32.5°	5428.3	5526.8	5487.4	5526.8	5469.9	5112.8	4635.3	4048.2	3866.4	3916.8	4352.7
35°	6011.0	6089.8	5986.9	5956.2	5864.2	5467.7	4931.0	4249.7	4008.8	4063.5	4471.0
37.5°	6637.5	6727.3	6578.3	6455.6	6280.4	5818.2	5185.1	4514.8	4205.9	4249.7	4580.5
40°	7185.1	7259.6	7130.3	6968.2	6674.7	6127.1	5404.2	4701.0	4403.1	4457.8	4707.6
42.5°	7691.1	7739.3	7594.7	7439.2	7047.1	6405.3	5640.7	4898.1	4633.1	4685.7	4810.5
45°	8203.7	8241.0	8039.4	7818.2	7358.2	6659.4	5901.4	5174.2	4970.4	5040.5	4977.0
47.5°	8295.7	8306.7	8271.6	8122.7	7603.5	6902.5	6223.4	5544.4	5485.2	5561.9	5264.0
50°	7658.3	7756.8	7973.7	8120.5	7702.1	7106.2	6545.5	6074.5	6195.0	6293.5	5859.8
52.5°	6420.6	6514.8	7016.4	7572.8	7465.5	7152.2	6891.6	6747.0	7196.1	7314.3	6670.3
55°	5115.0	5198.2	5728.4	6530.1	6701.0	6941.9	7261.8	7605.7	8473.2	8552.0	7559.7
57.5°	4212.5	4258.5	4637.5	5408.5	5682.4	6269.4	7461.1	8626.5	9772.2	9892.7	8333.0
60°	3454.5	3504.9	3787.5	4422.8	4786.4	5307.8	7303.4	9634.2	11323.1	11323.1	9325.3
62.5°	2600.2	2644.0	2906.9	3404.2	4015.3	4492.9	6799.6	10302.3	12492.9	12440.3	10043.8
65°	1785.3	1820.4	2011.0	2341.7	2891.6	3829.1	6111.7	10311.1	13268.3	13198.2	10350.5
66°	1498.4	1529.0	1691.1	1958.4	2420.6	3474.3	5868.6	10124.9	13430.4	13331.9	10221.2
67.5°	1182.9	1204.8	1312.2	1469.9	1774.4	2812.7	5485.2	9596.9	13415.1	13356.0	9892.7
70°	845.6	860.9	939.8	972.6	1049.3	1627.6	4357.1	8405.3	12339.5	12357.1	8600.2
72.5°	655.0	679.1	727.3	733.8	716.3	865.3	2644.0	7012.0	10094.2	10087.6	6383.4
75°	527.9	541.1	565.2	578.3	573.9	558.6	1119.4	5231.1	6948.5	7029.6	3575.0
77.5°	416.2	414.0	435.9	453.5	466.6	438.1	512.6	3066.8	3642.9	3540.0	1342.8
80°	306.7	306.7	337.3	343.9	363.6	368.0	341.7	1182.9	1250.8	1136.9	348.3
82.5°	201.5	201.5	234.4	238.8	258.5	287.0	247.5	354.9	346.1	328.6	157.7
85°	109.5	105.1	116.1	131.4	142.4	168.7	149.0	177.4	181.8	179.6	105.1
87.5°	21.9	19.7	30.7	35.0	39.4	52.6	48.2	72.3	100.8	98.6	46.0
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: P1210877

CATALOG NUMBER: ARCH4-100-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8
2.5°	2808.3	2806.1	2830.2	2858.7	2891.6	2911.3	2920.0	2935.4	2924.4	2928.8	2941.9
5°	2849.9	2856.5	2891.6	2928.8	2944.1	2933.2	2909.1	2900.3	2880.6	2876.2	2871.9
7.5°	2911.3	2922.2	2957.3	2966.0	2920.0	2843.4	2788.6	2757.9	2725.1	2716.3	2711.9
10°	3012.0	3018.6	3027.4	2937.6	2823.7	2720.7	2652.8	2624.3	2602.4	2584.9	2589.3
12.5°	3139.1	3134.7	3066.8	2880.6	2718.5	2613.4	2567.4	2549.8	2534.5	2523.5	2521.4
15°	3299.0	3268.3	3073.4	2801.8	2619.9	2532.3	2499.5	2492.9	2475.4	2475.4	2473.2
17.5°	3461.1	3382.3	3069.0	2718.5	2525.7	2477.5	2457.8	2453.5	2449.1	2446.9	2453.5
20°	3623.2	3483.0	3034.0	2615.6	2460.0	2431.5	2427.2	2429.4	2425.0	2431.5	2427.2
22.5°	3765.6	3548.7	2968.2	2506.0	2414.0	2411.8	2400.9	2405.3	2420.6	2422.8	2429.4
25°	3875.1	3572.8	2871.9	2405.3	2381.2	2376.8	2389.9	2407.4	2420.6	2422.8	2433.7
27.5°	3965.0	3559.7	2751.4	2326.4	2324.2	2348.3	2387.7	2394.3	2396.5	2396.5	2387.7
30°	4032.9	3531.2	2598.0	2238.8	2249.7	2308.9	2346.1	2346.1	2328.6	2324.2	2337.3
32.5°	4048.2	3494.0	2431.5	2149.0	2166.5	2236.6	2282.6	2267.3	2247.5	2247.5	2256.3
35°	4061.3	3443.6	2297.9	2026.3	2052.6	2135.8	2179.6	2149.0	2127.1	2120.5	2118.3
37.5°	4057.0	3423.9	2177.4	1870.8	1905.8	1986.9	2015.3	1986.9	1954.0	1938.7	1958.4
40°	4061.3	3410.7	2026.3	1699.9	1734.9	1783.1	1820.4	1798.5	1767.8	1728.4	1748.1
42.5°	4087.6	3428.3	1859.8	1533.4	1533.4	1559.7	1623.2	1607.9	1533.4	1518.1	1535.6
45°	4227.8	3522.5	1693.3	1366.9	1342.8	1360.4	1426.1	1360.4	1314.3	1314.3	1329.7
47.5°	4567.4	3697.7	1546.5	1220.2	1163.2	1198.2	1215.8	1154.4	1119.4	1110.6	1126.0
50°	5259.6	4048.2	1458.9	1099.7	1029.6	1055.9	1044.9	1042.7	1007.7	1012.0	1020.8
52.5°	6311.1	4731.7	1432.6	1040.5	952.9	959.5	948.5	952.9	946.3	968.2	974.8
55°	7456.7	5452.4	1465.5	1049.3	900.3	854.3	858.7	880.6	906.9	941.9	948.5
57.5°	8313.3	5813.8	1550.9	1108.4	834.6	764.5	775.5	817.1	867.5	895.9	911.3
60°	8950.7	5770.0	1675.8	1123.8	755.8	683.5	703.2	764.5	808.3	832.4	847.8
62.5°	9158.8	5496.2	1706.5	1012.0	652.8	606.8	655.0	718.5	738.2	764.5	775.5
65°	8988.0	5108.4	1483.0	821.5	573.9	549.8	619.9	668.1	694.4	707.6	709.7
66°	8786.4	4876.2	1362.5	747.0	545.5	532.3	606.8	646.2	672.5	670.3	672.5
67.5°	8343.9	4389.9	1167.6	641.8	503.8	506.0	584.9	611.2	619.9	613.4	613.4
70°	6839.0	3090.9	836.8	486.3	442.5	473.2	525.7	532.3	552.0	543.3	543.3
72.5°	4216.9	1518.1	560.8	372.4	394.3	442.5	440.3	462.2	508.2	521.4	530.1
75°	2072.3	615.6	370.2	315.4	352.7	370.2	365.8	420.6	486.3	543.3	563.0
77.5°	786.4	306.7	258.5	276.0	284.8	278.2	291.3	381.2	486.3	589.3	609.0
80°	243.2	212.5	203.7	227.8	214.7	203.7	219.1	315.4	411.8	446.9	446.9
82.5°	146.8	166.5	157.7	155.5	144.6	146.8	157.7	225.6	317.6	333.0	333.0
85°	103.0	109.5	89.8	85.4	83.2	81.1	81.1	131.4	188.4	186.2	192.8
87.5°	39.4	43.8	32.9	32.9	30.7	21.9	17.5	21.9	21.9	15.3	11.0
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)