

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: P1210399

Luminaire Tested: **ARCH3-110-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210399
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: ARCH3-110-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16480 lumens
Efficiency: N/A
Efficacy: 147.3 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): 111.9
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



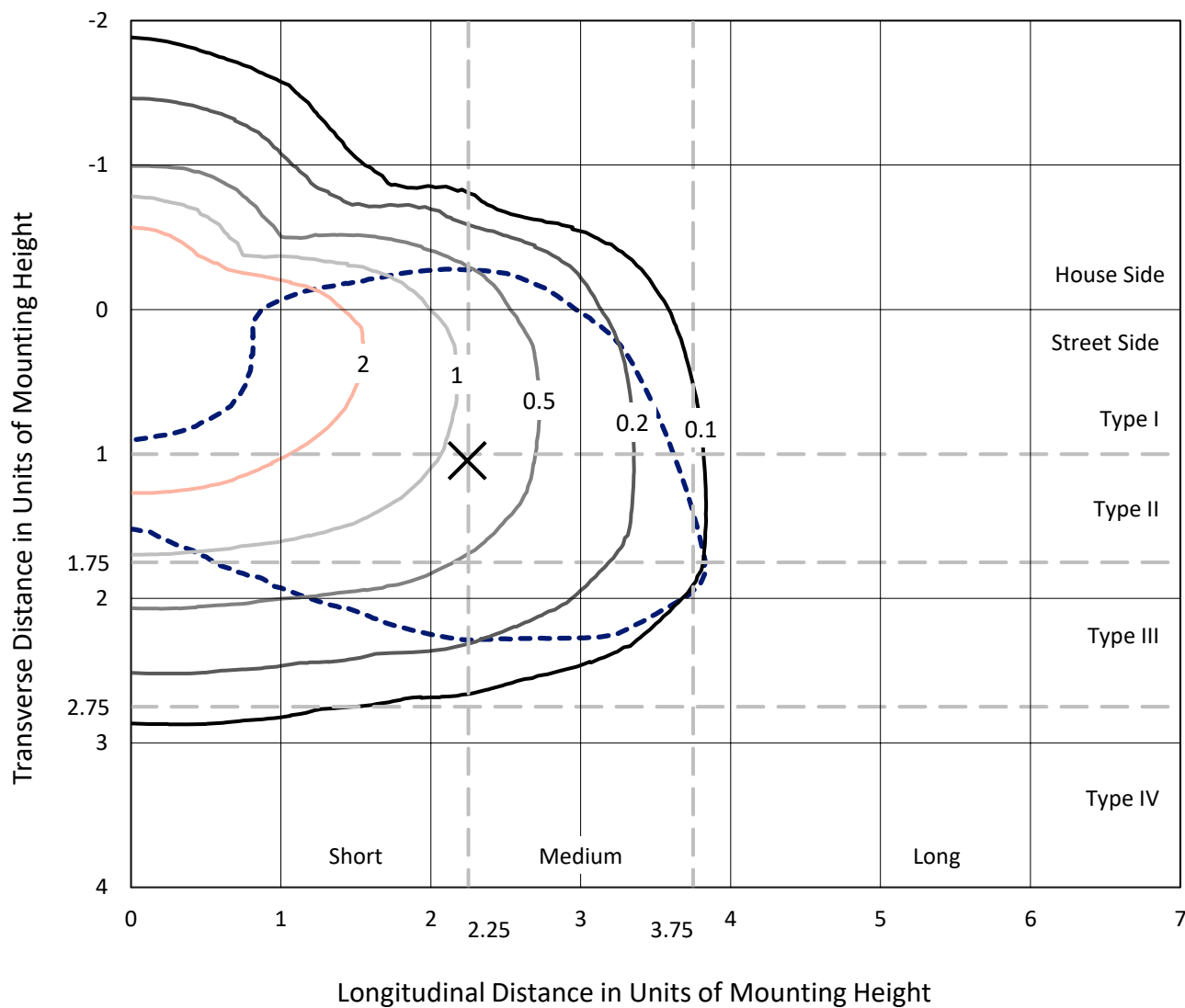
REPORT NUMBER: P1210399

CATALOG NUMBER: ARCH3-110-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



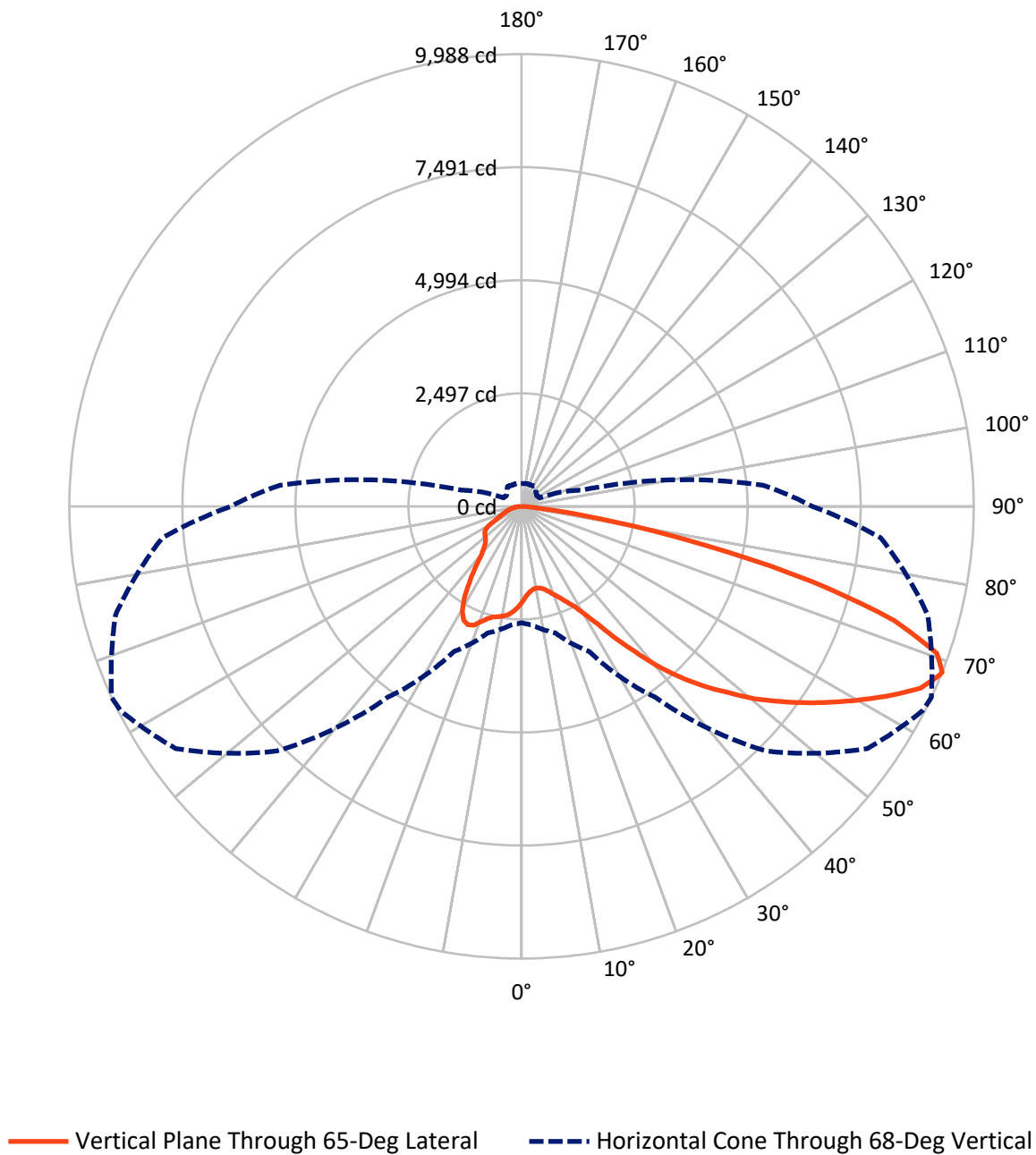
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type III - Short - N/A

REPORT NUMBER: P1210399

CATALOG NUMBER: ARCH3-110-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210399

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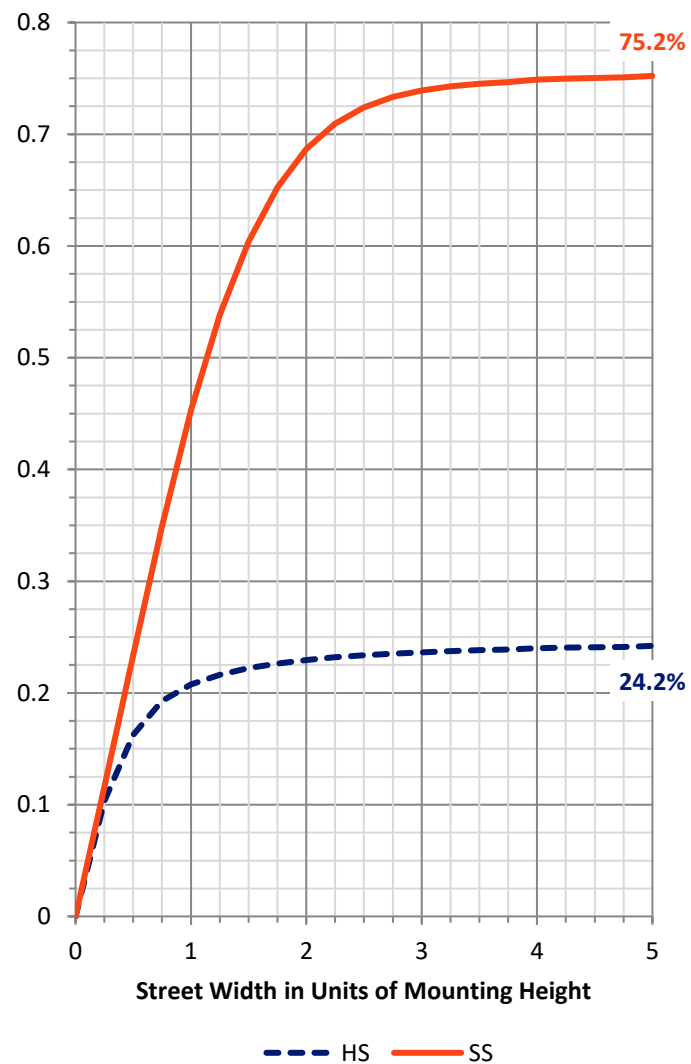
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4040.4	0.0	4040.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12439.6	0.0	12439.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	16480.0	0.0	16480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.2
10°-20°	655.3	4.0
20°-30°	1186.1	7.2
30°-40°	1865.8	11.3
40°-50°	2778.9	16.9
50°-60°	3645.4	22.1
60°-70°	3986.5	24.2
70°-80°	1972.6	12.0
80°-90°	188.2	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°	16480.0	100.0
0°-180°	16480.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210399

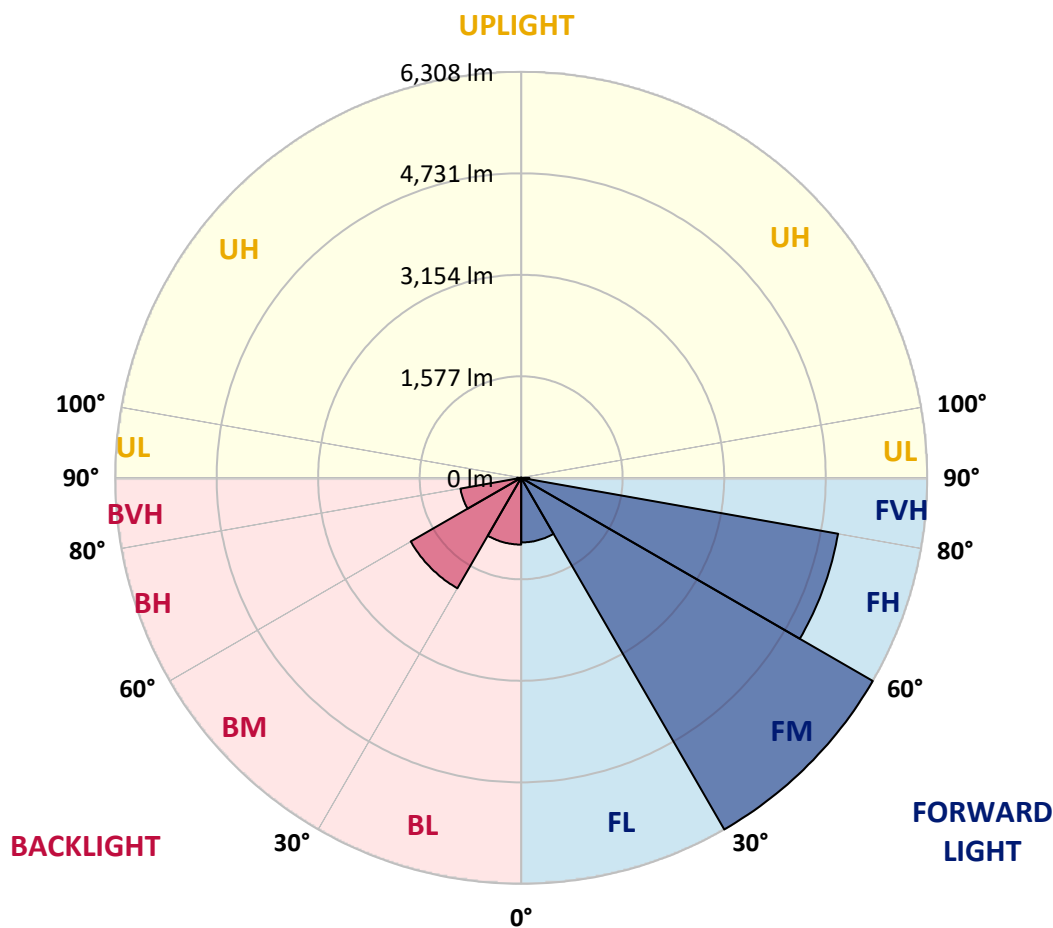
CATALOG NUMBER: ARCH3-110-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.6	6.1			
FM	(30°-60°)	6308.3	38.3			
FH	(60°-80°)	5000.1	30.3			G3/7500
FVH	(80°-90°)	126.6	0.8			G2/225
BL	(0°-30°)	1038.0	6.3	B3/2500		
BM	(30°-60°)	1981.8	12.0	B2/2500		
BH	(60°-80°)	959.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	61.6	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: P1210399

CATALOG NUMBER: ARCH3-110-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9
2.5°	1838.2	1833.9	1844.6	1855.2	1878.6	1906.2	1944.4	1976.3	1980.6	2040.1	2086.8
5°	1729.8	1723.4	1734.1	1746.8	1757.4	1791.4	1831.8	1878.6	1897.7	1984.8	2084.7
7.5°	1740.4	1738.3	1742.6	1738.3	1738.3	1753.2	1780.8	1827.6	1848.8	1952.9	2095.3
10°	1802.1	1806.3	1808.4	1795.7	1782.9	1776.6	1785.1	1816.9	1831.8	1955.1	2142.1
12.5°	1904.1	1910.4	1912.6	1889.2	1872.2	1844.6	1829.7	1842.4	1853.1	1976.3	2207.9
15°	2042.2	2046.4	2031.6	2016.7	1974.2	1940.2	1904.1	1893.4	1897.7	2020.9	2282.3
17.5°	2203.7	2197.3	2197.3	2161.2	2105.9	2052.8	1993.3	1984.8	1984.8	2093.2	2388.6
20°	2380.1	2386.5	2367.3	2318.5	2263.2	2180.3	2120.8	2082.6	2086.8	2176.1	2518.2
22.5°	2635.1	2645.7	2594.7	2524.6	2439.6	2344.0	2258.9	2197.3	2199.4	2284.4	2652.1
25°	2909.2	2913.5	2881.6	2788.1	2673.3	2537.3	2424.7	2346.1	2344.0	2405.6	2824.2
27.5°	3189.7	3208.9	3145.1	3055.8	2949.6	2779.6	2630.8	2524.6	2507.6	2590.5	3038.8
30°	3478.7	3502.1	3440.5	3353.4	3221.6	3077.1	2900.7	2777.5	2766.8	2877.3	3325.7
32.5°	3769.9	3776.2	3727.4	3655.1	3536.1	3400.1	3257.7	3121.7	3111.1	3291.7	3697.6
35°	4007.9	4027.0	3993.0	3976.0	3888.9	3763.5	3625.4	3546.7	3574.4	3806.0	4180.0
37.5°	4294.8	4313.9	4275.6	4271.4	4243.8	4135.4	4039.8	4046.1	4073.8	4388.3	4687.9
40°	4709.2	4730.4	4632.7	4590.1	4590.1	4483.9	4452.0	4602.9	4639.0	4962.0	5217.0
42.5°	5059.8	5093.8	5036.4	5008.8	4925.9	4851.5	4889.8	5102.3	5163.9	5510.3	5678.2
45°	5229.8	5255.3	5323.3	5404.1	5323.3	5193.7	5338.2	5578.3	5665.4	6016.1	6139.3
47.5°	5321.2	5344.5	5423.2	5639.9	5695.2	5586.8	5790.8	6090.4	6150.0	6517.6	6579.2
50°	5333.9	5408.3	5510.3	5727.1	5979.9	5994.8	6245.6	6611.1	6681.2	7010.6	6966.0
52.5°	5229.8	5259.5	5469.9	5835.4	6115.9	6371.0	6740.7	7110.5	7161.5	7473.9	7308.1
55°	5059.8	5102.3	5312.7	5809.9	6247.7	6728.0	7244.4	7601.4	7658.7	7924.4	7624.7
57.5°	4906.8	4928.0	5153.3	5735.6	6379.5	7085.0	7692.8	8113.5	8151.8	8319.6	7858.5
60°	4736.8	4760.2	4985.4	5576.2	6477.2	7354.9	8160.3	8629.9	8663.9	8736.2	8130.5
62.5°	4296.9	4358.5	4641.2	5312.7	6451.7	7663.0	8659.7	9139.9	9182.4	9103.8	8345.1
65°	3489.4	3576.5	3922.9	4715.5	6213.7	7862.8	9067.7	9609.6	9681.8	9380.1	8402.5
67.5°	2709.5	2771.1	3049.5	3742.2	5378.6	7762.9	9331.2	9932.6	9953.8	9335.4	8083.8
68°	2569.2	2630.8	2896.5	3538.2	5146.9	7643.9	9324.8	9941.1	9987.8	9286.6	7960.5
70°	1965.7	2035.8	2288.7	2803.0	4148.1	6887.3	8935.9	9737.1	9730.7	8695.8	7195.5
72.5°	1228.3	1268.7	1442.9	1768.1	2743.5	5240.4	7584.4	8587.4	8604.4	7089.2	5518.8
75°	779.9	779.9	771.4	856.4	1406.8	2985.7	5637.8	6611.1	6623.8	4964.2	3478.7
77.5°	677.9	658.8	567.4	480.3	561.0	1160.3	3336.4	4269.3	4199.1	2673.3	1651.2
80°	571.6	539.8	465.4	386.8	361.3	363.4	1281.4	2167.6	2074.1	962.7	548.3
82.5°	412.3	384.6	350.6	303.9	278.4	216.8	267.8	626.9	612.0	278.4	178.5
85°	223.1	201.9	197.6	199.8	167.9	133.9	112.6	138.1	138.1	121.1	102.0
87.5°	78.6	57.4	68.0	76.5	65.9	55.3	44.6	53.1	55.3	53.1	48.9
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: P1210399

CATALOG NUMBER: ARCH3-110-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9	2105.9
2.5°	2114.4	2135.7	2186.7	2231.3	2263.2	2290.8	2305.7	2312.1	2327.0	2329.1	2324.8
5°	2131.4	2186.7	2263.2	2329.1	2365.2	2380.1	2384.3	2386.5	2380.1	2384.3	2380.1
7.5°	2176.1	2246.2	2354.6	2412.0	2418.3	2395.0	2397.1	2388.6	2397.1	2405.6	2405.6
10°	2244.1	2333.3	2435.3	2456.6	2429.0	2416.2	2441.7	2492.7	2509.7	2533.1	2533.1
12.5°	2333.3	2439.6	2511.8	2492.7	2467.2	2509.7	2584.1	2635.1	2652.1	2660.6	2654.2
15°	2435.3	2550.1	2586.2	2522.5	2569.2	2660.6	2686.1	2656.3	2613.8	2594.7	2605.3
17.5°	2565.0	2660.6	2639.3	2596.8	2703.1	2715.8	2633.0	2537.3	2469.3	2443.8	2460.8
20°	2701.0	2783.8	2686.1	2705.2	2771.1	2635.1	2477.8	2354.6	2295.1	2284.4	2301.4
22.5°	2845.5	2898.6	2732.8	2830.6	2732.8	2456.6	2267.4	2203.7	2188.8	2205.8	2220.7
25°	3009.1	3002.7	2813.6	2868.8	2590.5	2237.7	2125.1	2120.8	2120.8	2131.4	2152.7
27.5°	3194.0	3094.1	2894.3	2817.8	2344.0	2057.1	2035.8	2037.9	2031.6	2033.7	2044.3
30°	3408.6	3217.4	2983.6	2650.0	2067.7	1921.1	1912.6	1906.2	1891.3	1887.1	1891.3
32.5°	3678.5	3347.0	3075.0	2373.7	1825.4	1780.8	1776.6	1742.6	1706.4	1702.2	1717.1
35°	4020.6	3582.9	3121.7	2027.3	1625.7	1623.6	1608.7	1555.6	1508.8	1508.8	1498.2
37.5°	4411.6	3886.8	3140.9	1689.4	1459.9	1470.5	1428.0	1360.0	1323.9	1302.7	1309.0
40°	4811.2	4233.1	3138.7	1394.0	1315.4	1317.5	1285.7	1202.8	1113.5	1060.4	1073.2
42.5°	5195.8	4547.6	3083.5	1236.8	1198.5	1192.2	1166.7	1054.0	979.7	937.2	939.3
45°	5503.9	4872.8	2998.5	1143.3	1092.3	1102.9	1045.5	977.5	909.5	871.3	869.2
47.5°	5812.1	5119.3	2862.5	1085.9	1013.7	994.5	971.2	924.4	873.4	830.9	833.0
50°	6092.6	5329.7	2735.0	1047.7	941.4	892.5	896.8	869.2	824.5	786.3	784.2
52.5°	6290.2	5467.8	2664.8	1026.4	854.3	801.2	816.0	801.2	758.6	731.0	728.9
55°	6487.8	5574.1	2688.2	998.8	758.6	716.1	741.6	737.4	714.0	705.5	707.6
57.5°	6647.2	5654.8	2771.1	947.8	667.3	641.8	684.3	671.5	654.5	656.6	656.6
60°	6802.3	5758.9	2868.8	830.9	588.6	590.8	631.1	607.8	597.1	616.3	618.4
62.5°	6963.9	5871.6	2788.1	660.9	520.6	535.5	582.3	563.1	567.4	595.0	603.5
65°	6944.7	5860.9	2271.7	541.9	461.1	490.9	561.0	554.6	556.8	567.4	571.6
67.5°	6553.7	5486.9	1561.9	461.1	418.6	454.8	544.0	518.5	520.6	514.3	516.4
68°	6422.0	5355.2	1377.0	448.4	410.1	446.3	535.5	512.1	514.3	507.9	505.8
70°	5703.7	4585.9	871.3	395.3	380.4	422.9	493.0	484.5	482.4	478.1	478.1
72.5°	4347.9	3385.2	459.0	342.1	346.4	386.8	439.9	456.9	446.3	448.4	461.1
75°	2879.5	2035.8	318.8	293.3	303.9	331.5	391.0	425.0	414.4	420.8	414.4
77.5°	1523.7	1096.5	255.0	248.6	248.6	267.8	323.0	376.1	376.1	371.9	365.5
80°	499.4	386.8	204.0	195.5	199.8	210.4	259.3	308.1	314.5	306.0	301.8
82.5°	167.9	178.5	153.0	142.4	146.6	155.1	195.5	235.9	238.0	221.0	216.8
85°	104.1	119.0	95.6	93.5	93.5	95.6	119.0	129.6	119.0	106.3	110.5
87.5°	48.9	59.5	44.6	38.3	31.9	27.6	21.3	8.5	8.5	4.3	4.3
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)