

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: P1210937

Luminaire Tested: **ARCH4-120-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210937
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: ARCH4-120-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19194 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

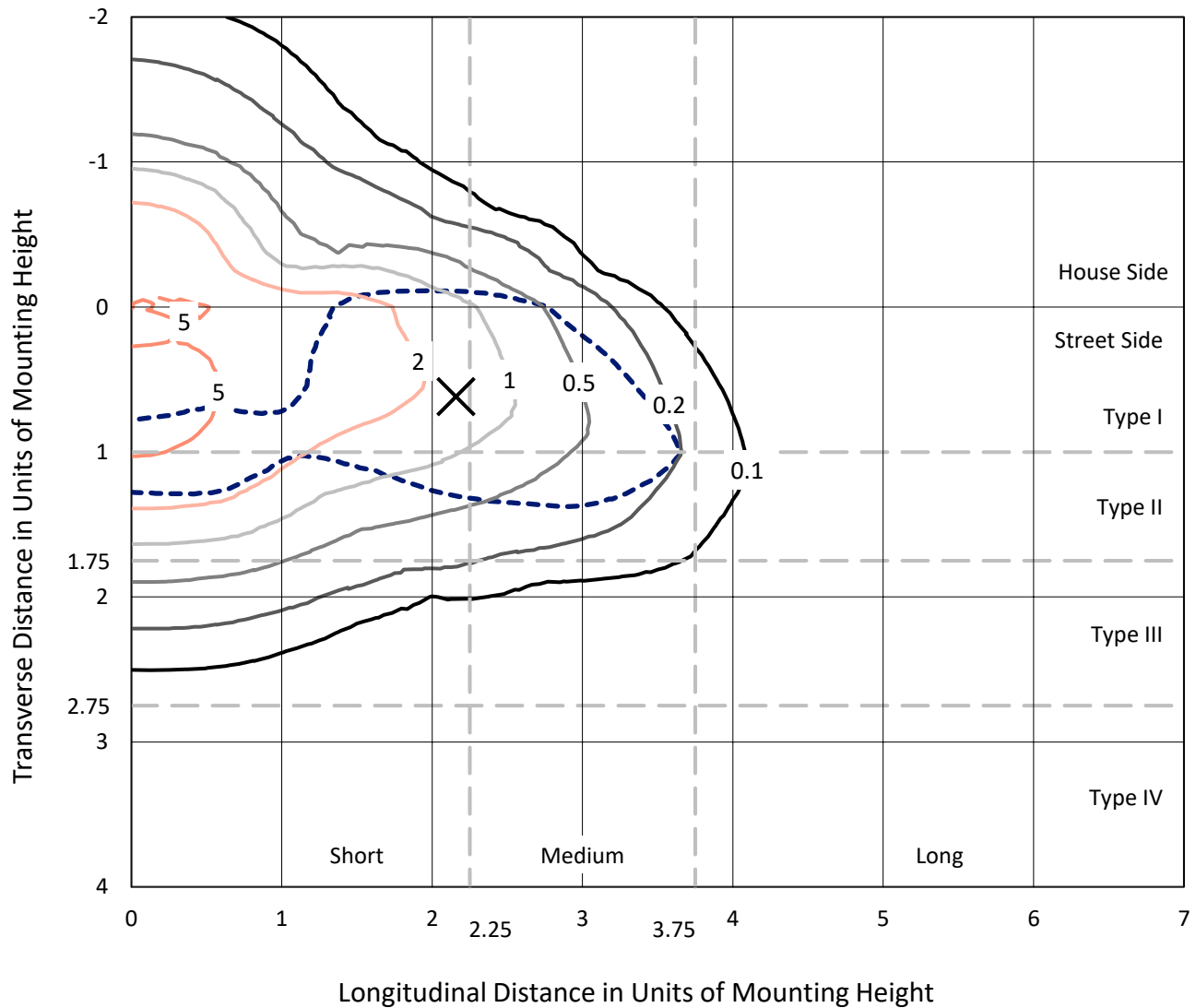
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210937
 CATALOG NUMBER: ARCH4-120-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

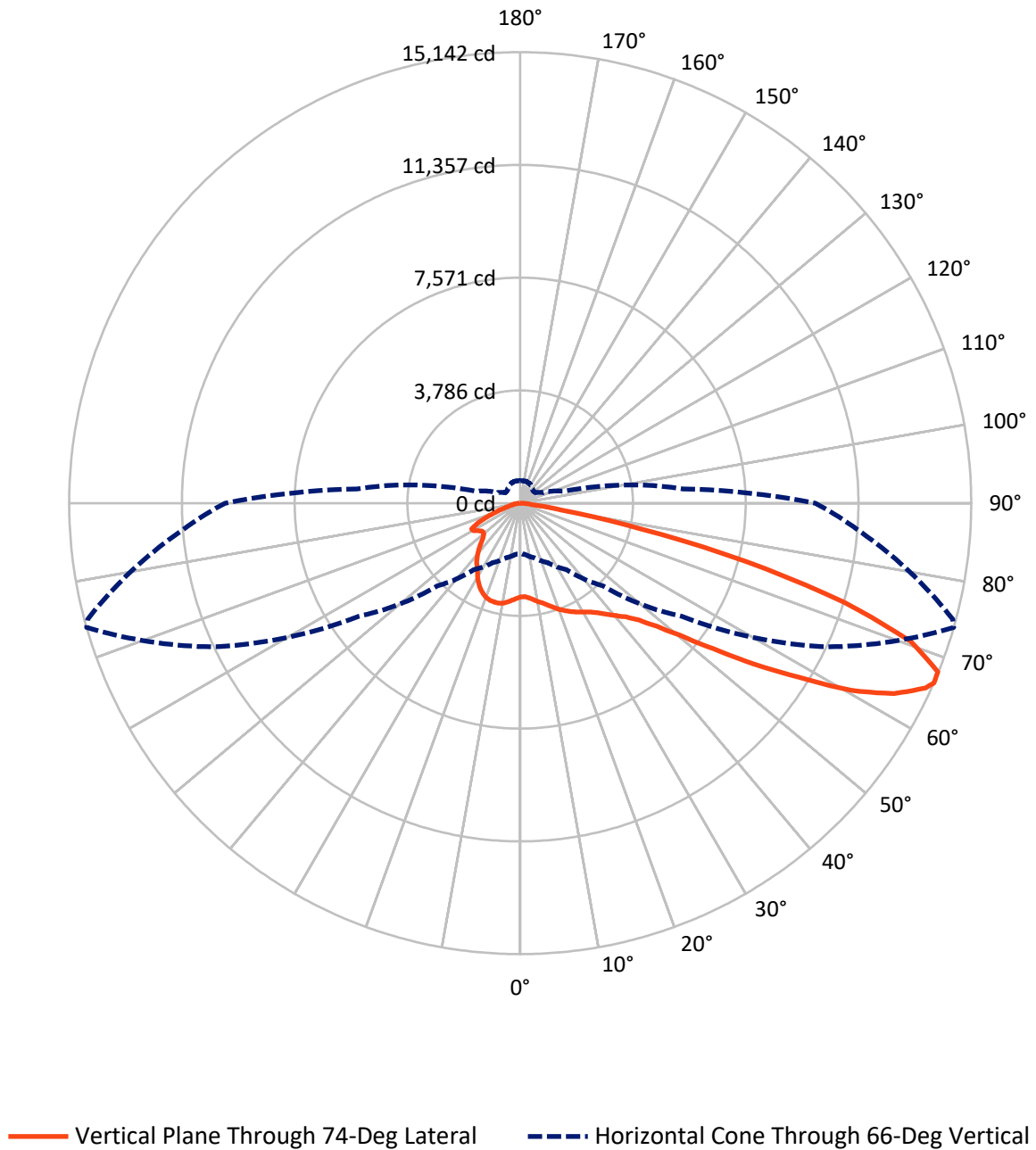


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P1210937

CATALOG NUMBER: ARCH4-120-727-U-T2RE

Luminous Intensity Polar Plot



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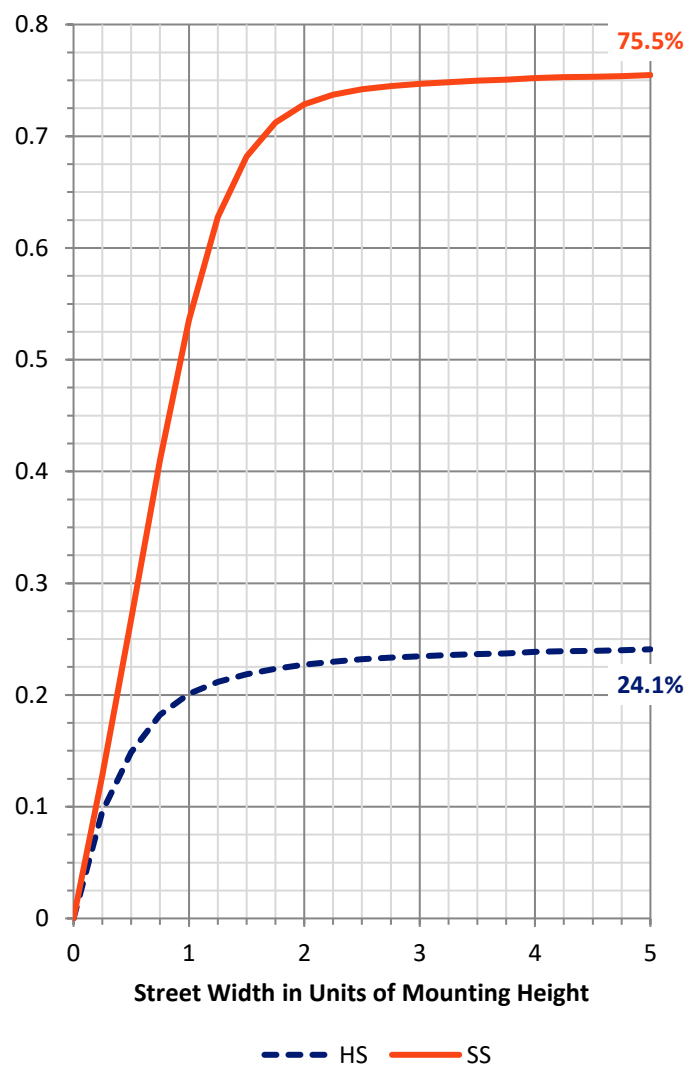
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4674.3	0.0	4674.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14519.7	0.0	14519.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	19194.0	0.0	19194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.6
10°-20°	923.0	4.8
20°-30°	1732.1	9.0
30°-40°	2664.3	13.9
40°-50°	3583.8	18.7
50°-60°	4238.2	22.1
60°-70°	3920.6	20.4
70°-80°	1649.4	8.6
80°-90°	182.5	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°	19194.0	100.0
0°-180°	19194.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210937

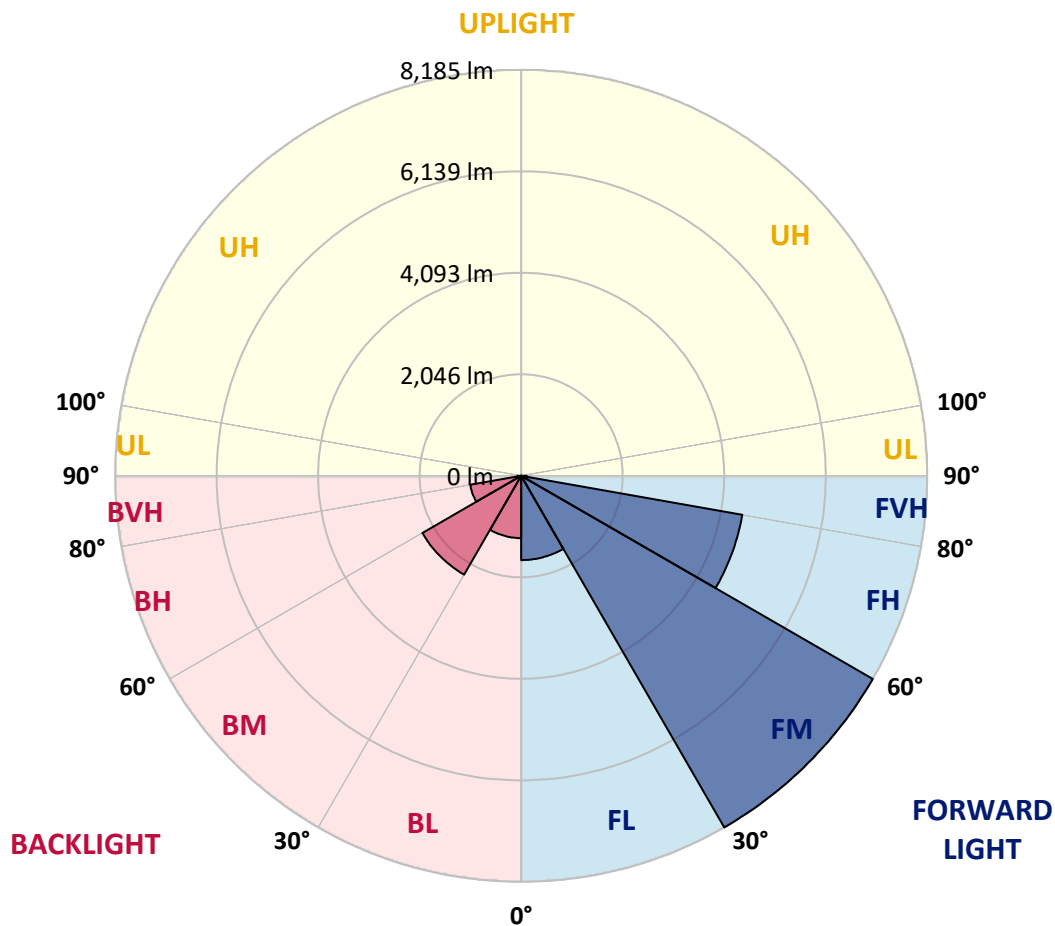
CATALOG NUMBER: ARCH4-120-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.9	8.9			
FM	(30°-60°)	8185.2	42.6			
FH	(60°-80°)	4526.5	23.6			G2/5000
FVH	(80°-90°)	109.2	0.6			G2/225
BL	(0°-30°)	1256.3	6.5	B3/2500		
BM	(30°-60°)	2301.2	12.0	B2/2500		
BH	(60°-80°)	1043.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	73.3	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 II Short



REPORT NUMBER: P1210937

CATALOG NUMBER: ARCH4-120-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5
2.5°	3136.7	3131.7	3141.6	3156.4	3163.8	3151.5	3146.5	3144.1	3144.1	3136.7	3149.0
5°	2988.5	2986.0	3008.2	3035.4	3087.3	3124.3	3173.7	3203.3	3193.5	3178.6	3188.5
7.5°	2795.8	2790.9	2818.1	2869.9	2941.5	3023.0	3144.1	3237.9	3275.0	3270.0	3267.6
10°	2869.9	2865.0	2862.5	2847.7	2872.4	2951.4	3077.4	3242.9	3368.8	3371.3	3373.8
12.5°	3126.8	3139.1	3126.8	3079.8	3025.5	2995.9	3070.0	3255.2	3447.9	3462.7	3524.4
15°	3477.5	3465.1	3440.4	3386.1	3302.1	3213.2	3158.9	3312.0	3561.5	3573.8	3709.7
17.5°	3786.2	3796.1	3781.3	3729.4	3630.6	3514.5	3349.1	3410.8	3682.5	3717.1	3907.2
20°	4122.1	4161.6	4141.9	4077.7	3996.1	3823.3	3615.8	3554.1	3815.9	3840.6	4112.2
22.5°	4509.9	4551.9	4514.8	4453.1	4386.4	4174.0	3907.2	3729.4	3927.0	3978.9	4309.8
25°	4974.2	5013.7	4979.1	4882.8	4798.8	4539.5	4220.9	3927.0	4035.7	4092.5	4470.4
27.5°	5342.2	5371.8	5403.9	5347.1	5218.7	4949.5	4546.9	4132.0	4144.3	4203.6	4618.5
30°	5670.7	5744.8	5771.9	5779.3	5670.7	5369.4	4880.3	4344.4	4238.2	4299.9	4766.7
32.5°	6120.2	6231.3	6186.9	6231.3	6167.1	5764.5	5226.1	4564.2	4359.2	4416.0	4907.5
35°	6777.2	6866.1	6750.0	6715.4	6611.7	6164.6	5559.5	4791.4	4519.7	4581.5	5040.9
37.5°	7483.5	7584.8	7416.8	7278.5	7080.9	6559.8	5846.0	5090.3	4742.0	4791.4	5164.4
40°	8101.0	8184.9	8039.2	7856.5	7525.5	6908.1	6093.0	5300.2	4964.3	5026.1	5307.6
42.5°	8671.5	8725.8	8562.8	8387.5	7945.4	7221.7	6359.8	5522.5	5223.6	5282.9	5423.7
45°	9249.4	9291.4	9064.2	8814.7	8296.1	7508.2	6653.7	5833.7	5604.0	5683.0	5611.4
47.5°	9353.2	9365.5	9326.0	9158.0	8572.7	7782.4	7016.7	6251.1	6184.4	6270.8	5934.9
50°	8634.4	8745.6	8990.1	9155.6	8683.8	8012.1	7379.8	6848.8	6984.6	7095.8	6606.7
52.5°	7239.0	7345.2	7910.8	8538.1	8417.1	8063.9	7770.0	7607.0	8113.3	8246.7	7520.6
55°	5767.0	5860.9	6458.5	7362.5	7555.1	7826.8	8187.4	8575.2	9553.2	9642.1	8523.3
57.5°	4749.4	4801.3	5228.6	6098.0	6406.7	7068.6	8412.2	9726.1	11017.8	11153.7	9395.1
60°	3894.9	3951.7	4270.3	4986.5	5396.5	5984.3	8234.3	10862.2	12766.4	12766.4	10514.0
62.5°	2931.7	2981.1	3277.4	3838.1	4527.2	5065.6	7666.3	11615.5	14085.3	14026.0	11324.1
65°	2012.9	2052.4	2267.3	2640.2	3260.1	4317.2	6890.8	11625.4	14959.6	14880.6	11669.8
66°	1689.3	1723.9	1906.7	2208.0	2729.1	3917.1	6616.6	11415.5	15142.4	15031.2	11524.1
67.5°	1333.7	1358.4	1479.4	1657.2	2000.5	3171.2	6184.4	10820.2	15125.1	15058.4	11153.7
70°	953.3	970.6	1059.5	1096.6	1183.0	1835.1	4912.4	9476.7	13912.4	13932.2	9696.5
72.5°	738.5	765.6	820.0	827.4	807.6	975.6	2981.1	7905.9	11380.9	11373.5	7197.0
75°	595.2	610.0	637.2	652.0	647.1	629.8	1262.1	5897.9	7834.2	7925.6	4030.7
77.5°	469.3	466.8	491.5	511.3	526.1	494.0	577.9	3457.7	4107.3	3991.2	1514.0
80°	345.8	345.8	380.4	387.8	410.0	414.9	385.3	1333.7	1410.3	1281.8	392.7
82.5°	227.2	227.2	264.3	269.2	291.4	323.5	279.1	400.1	390.2	370.5	177.8
85°	123.5	118.6	130.9	148.2	160.5	190.2	167.9	200.1	205.0	202.5	118.6
87.5°	24.7	22.2	34.6	39.5	44.5	59.3	54.3	81.5	113.6	111.1	51.9
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: P1210937

CATALOG NUMBER: ARCH4-120-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5	3146.5
2.5°	3166.3	3163.8	3191.0	3223.1	3260.1	3282.4	3292.3	3309.5	3297.2	3302.1	3317.0
5°	3213.2	3220.6	3260.1	3302.1	3319.4	3307.1	3279.9	3270.0	3247.8	3242.9	3237.9
7.5°	3282.4	3294.7	3334.2	3344.1	3292.3	3205.8	3144.1	3109.5	3072.4	3062.6	3057.6
10°	3396.0	3403.4	3413.3	3312.0	3183.6	3067.5	2990.9	2958.8	2934.1	2914.4	2919.3
12.5°	3539.2	3534.3	3457.7	3247.8	3065.0	2946.5	2894.6	2874.9	2857.6	2845.2	2842.7
15°	3719.5	3685.0	3465.1	3158.9	2953.9	2855.1	2818.1	2810.6	2790.9	2790.9	2788.4
17.5°	3902.3	3813.4	3460.2	3065.0	2847.7	2793.4	2771.1	2766.2	2761.2	2758.8	2766.2
20°	4085.1	3927.0	3420.7	2949.0	2773.6	2741.5	2736.5	2739.0	2734.1	2741.5	2736.5
22.5°	4245.6	4001.1	3346.6	2825.5	2721.7	2719.3	2706.9	2711.8	2729.1	2731.6	2739.0
25°	4369.1	4028.3	3237.9	2711.8	2684.7	2679.7	2694.6	2714.3	2729.1	2731.6	2744.0
27.5°	4470.4	4013.4	3102.1	2622.9	2620.5	2647.6	2692.1	2699.5	2702.0	2702.0	2692.1
30°	4546.9	3981.3	2929.2	2524.1	2536.5	2603.2	2645.2	2645.2	2625.4	2620.5	2635.3
32.5°	4564.2	3939.3	2741.5	2422.9	2442.6	2521.7	2573.5	2556.3	2534.0	2534.0	2543.9
35°	4579.0	3882.5	2590.8	2284.6	2314.2	2408.1	2457.5	2422.9	2398.2	2390.8	2388.3
37.5°	4574.1	3860.3	2455.0	2109.2	2148.7	2240.1	2272.2	2240.1	2203.1	2185.8	2208.0
40°	4579.0	3845.5	2284.6	1916.6	1956.1	2010.4	2052.4	2027.7	1993.1	1948.7	1970.9
42.5°	4608.7	3865.2	2096.9	1728.9	1728.9	1758.5	1830.1	1812.8	1728.9	1711.6	1731.3
45°	4766.7	3971.5	1909.2	1541.2	1514.0	1533.8	1607.8	1533.8	1481.9	1481.9	1499.2
47.5°	5149.5	4169.0	1743.7	1375.7	1311.5	1351.0	1370.7	1301.6	1262.1	1252.2	1269.5
50°	5930.0	4564.2	1644.9	1239.8	1160.8	1190.4	1178.1	1175.6	1136.1	1141.1	1150.9
52.5°	7115.5	5334.8	1615.3	1173.2	1074.4	1081.8	1069.4	1074.4	1067.0	1091.7	1099.1
55°	8407.2	6147.4	1652.3	1183.0	1015.1	963.2	968.2	992.9	1022.5	1062.0	1069.4
57.5°	9372.9	6554.9	1748.6	1249.7	941.0	862.0	874.3	921.2	978.0	1010.2	1027.4
60°	10091.6	6505.5	1889.4	1267.0	852.1	770.6	792.8	862.0	911.4	938.5	955.8
62.5°	10326.3	6196.7	1924.0	1141.1	736.0	684.1	738.5	810.1	832.3	862.0	874.3
65°	10133.6	5759.6	1672.1	926.2	647.1	619.9	699.0	753.3	782.9	797.7	800.2
66°	9906.4	5497.8	1536.2	842.2	615.0	600.2	684.1	728.6	758.2	755.8	758.2
67.5°	9407.5	4949.5	1316.4	723.7	568.1	570.5	659.4	689.1	699.0	691.5	691.5
70°	7710.7	3484.9	943.5	548.3	498.9	533.5	592.8	600.2	622.4	612.5	612.5
72.5°	4754.4	1711.6	632.3	419.9	444.6	498.9	496.4	521.1	573.0	587.8	597.7
75°	2336.4	694.0	417.4	355.7	397.6	417.4	412.5	474.2	548.3	612.5	634.7
77.5°	886.7	345.8	291.4	311.2	321.1	313.7	328.5	429.7	548.3	664.4	686.6
80°	274.1	239.6	229.7	256.9	242.0	229.7	247.0	355.7	464.3	503.8	503.8
82.5°	165.5	187.7	177.8	175.4	163.0	165.5	177.8	254.4	358.1	375.4	375.4
85°	116.1	123.5	101.3	96.3	93.9	91.4	91.4	148.2	212.4	209.9	217.3
87.5°	44.5	49.4	37.0	37.0	34.6	24.7	19.8	24.7	24.7	17.3	12.3
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)