

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: P1211163

Luminaire Tested: **ARCH4-190-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211163
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: ARCH4-190-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27809 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 190
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

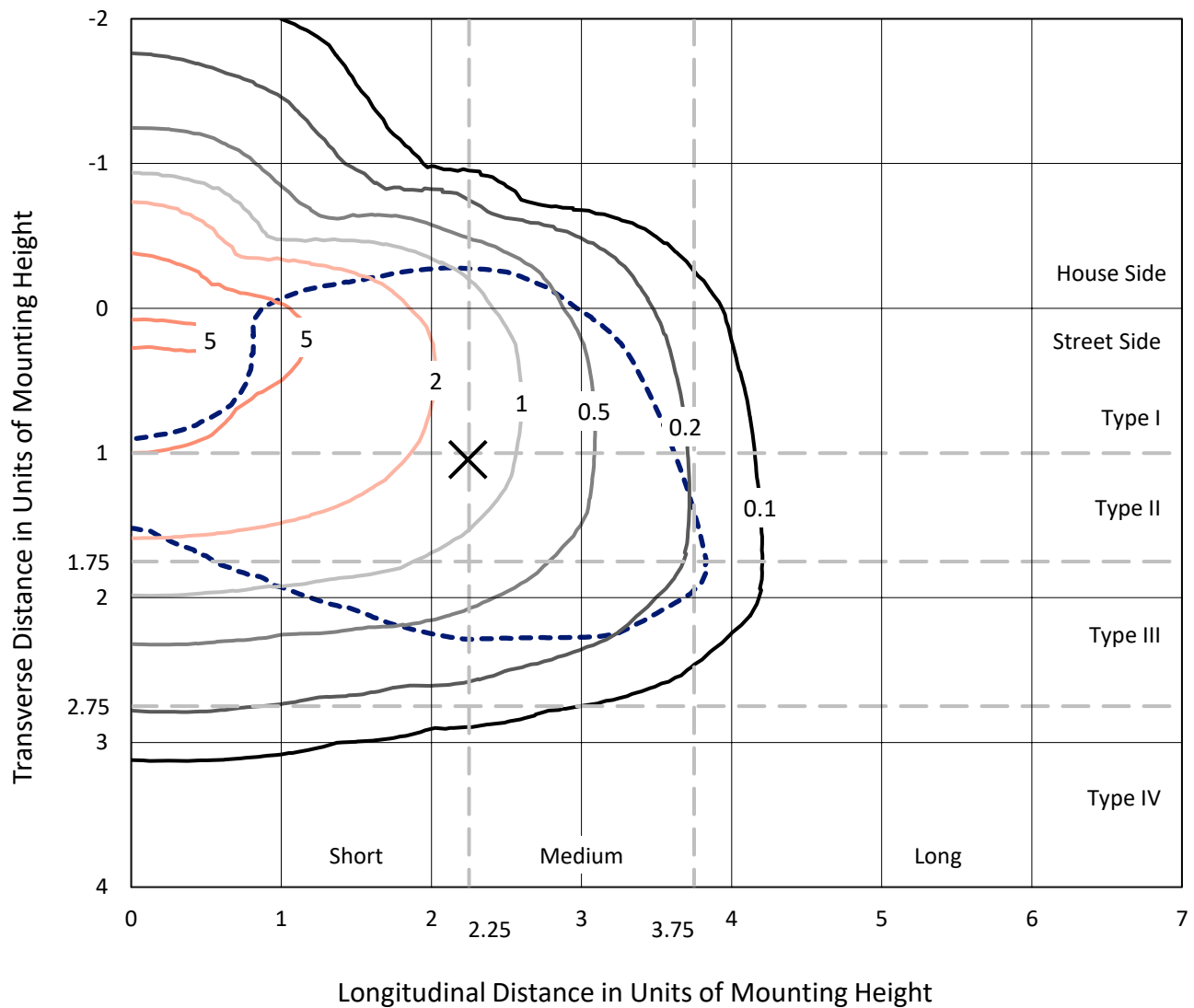


REPORT NUMBER: P1211163

CATALOG NUMBER: ARCH4-190-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

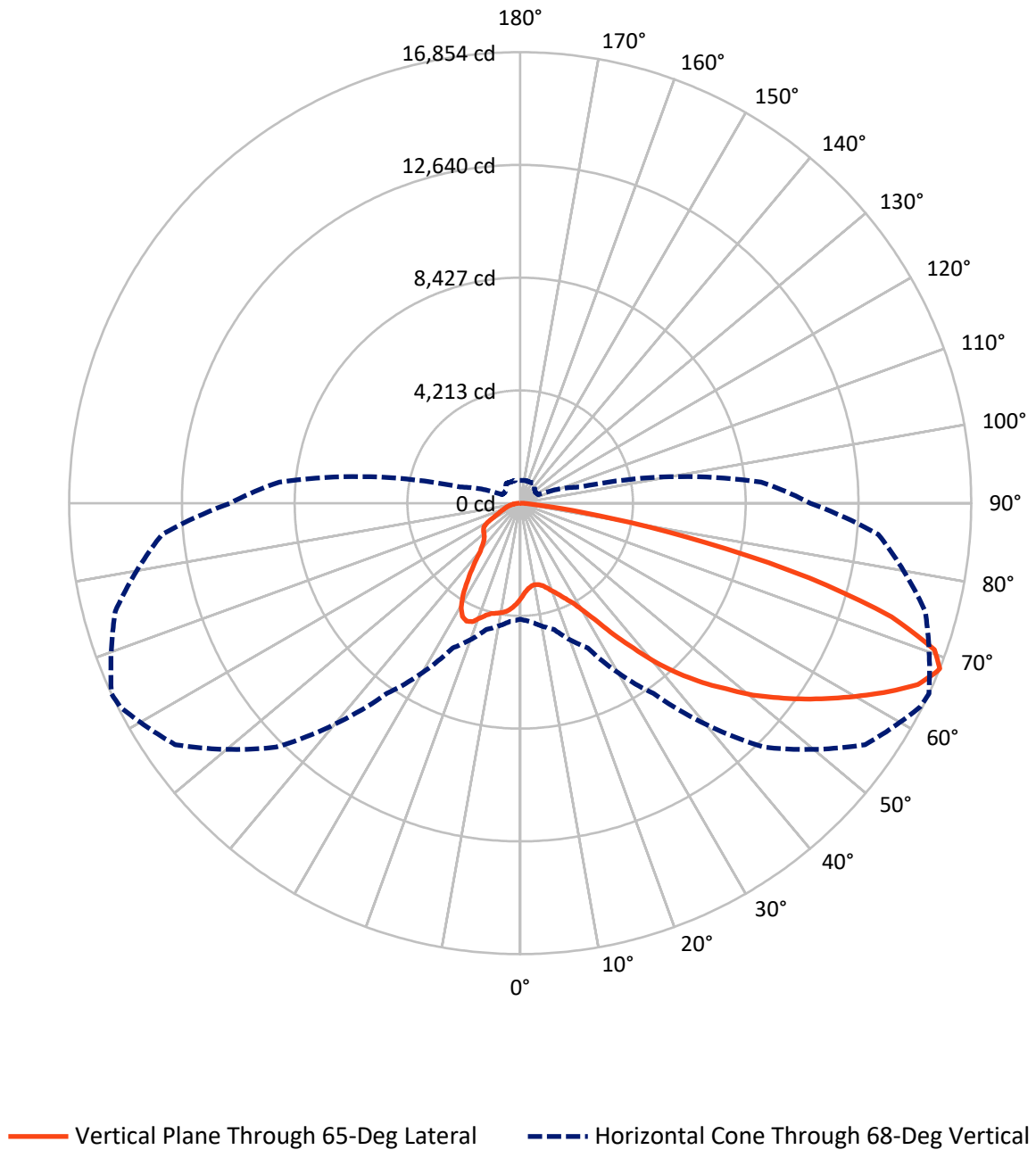
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type III - Short - N/A

REPORT NUMBER: P1211163
CATALOG NUMBER: ARCH4-190-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211163

CATALOG NUMBER: ARCH4-190-727-U-T3RE

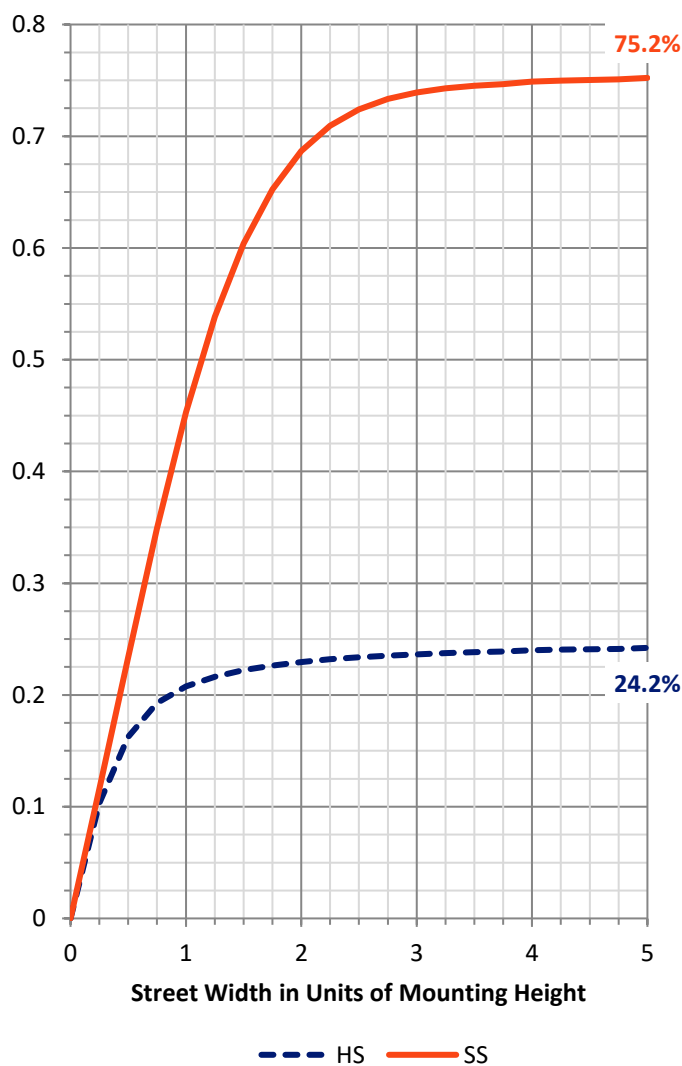
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6817.9	0.0	6817.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	20991.0	0.0	20991.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	27809.0	0.0	27809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	1.2
10°-20°	1105.8	4.0
20°-30°	2001.4	7.2
30°-40°	3148.4	11.3
40°-50°	4689.3	16.9
50°-60°	6151.4	22.1
60°-70°	6726.9	24.2
70°-80°	3328.7	12.0
80°-90°	317.5	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°	27809.0	100.0
0°-180°	27809.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211163

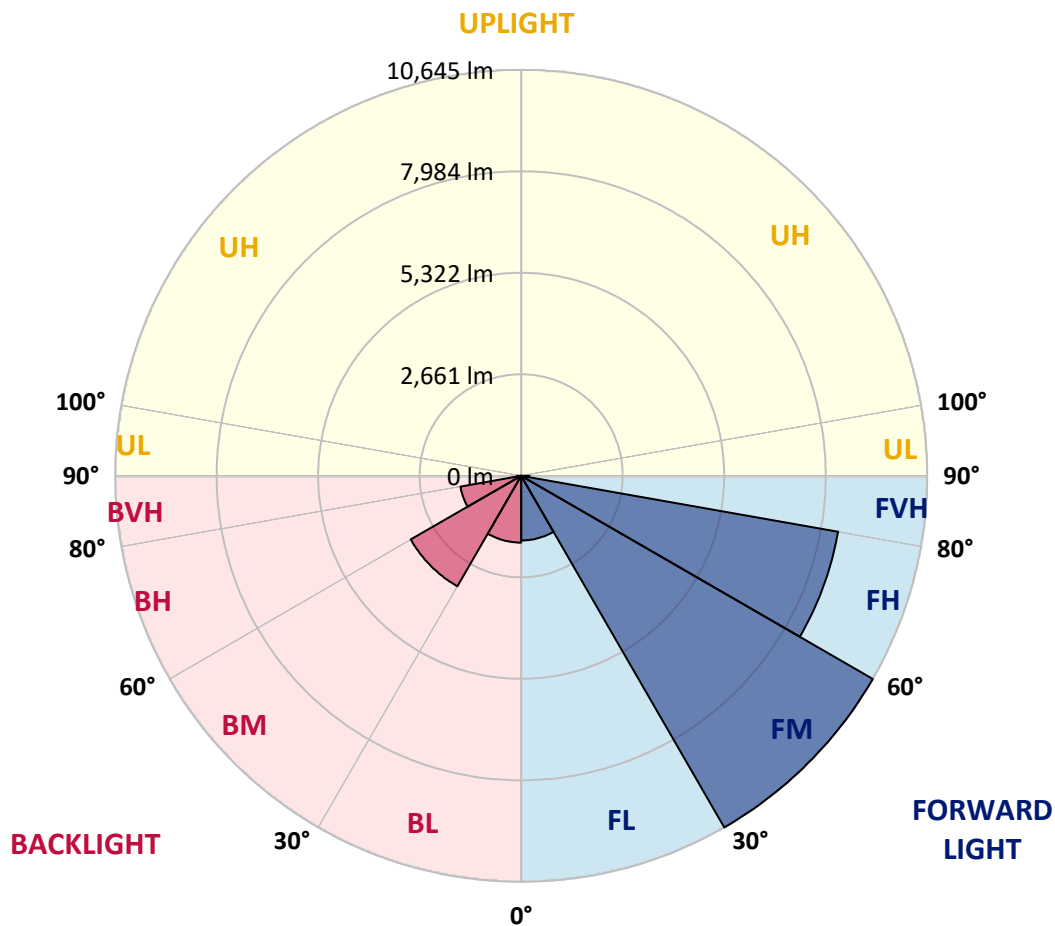
CATALOG NUMBER: ARCH4-190-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.3	6.1			
FM	(30°-60°)	10644.9	38.3			
FH	(60°-80°)	8437.3	30.3			G4/12000
FVH	(80°-90°)	213.6	0.8			G2/225
BL	(0°-30°)	1751.6	6.3	B3/2500		
BM	(30°-60°)	3344.2	12.0	B3/5000		
BH	(60°-80°)	1618.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	104.0	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-G4

Type III Short



REPORT NUMBER: P1211163

CATALOG NUMBER: ARCH4-190-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	3101.8	3094.7	3112.6	3130.5	3170.0	3216.6	3281.1	3334.9	3342.1	3442.5	3521.4
5°	2918.9	2908.2	2926.1	2947.6	2965.6	3022.9	3091.1	3170.0	3202.2	3349.3	3517.8
7.5°	2936.9	2933.3	2940.5	2933.3	2933.3	2958.4	3005.0	3083.9	3119.8	3295.5	3535.7
10°	3040.9	3048.0	3051.6	3030.1	3008.6	2997.8	3012.2	3066.0	3091.1	3299.1	3614.6
12.5°	3213.0	3223.7	3227.3	3187.9	3159.2	3112.6	3087.5	3109.0	3126.9	3334.9	3725.8
15°	3446.1	3453.2	3428.1	3403.0	3331.3	3273.9	3213.0	3195.1	3202.2	3410.2	3851.3
17.5°	3718.6	3707.8	3707.8	3646.9	3553.7	3464.0	3363.6	3349.3	3349.3	3532.1	4030.6
20°	4016.2	4027.0	3994.7	3912.2	3819.0	3679.2	3578.8	3514.2	3521.4	3672.0	4249.3
22.5°	4446.5	4464.5	4378.4	4260.1	4116.6	3955.3	3811.8	3707.8	3711.4	3854.9	4475.2
25°	4909.1	4916.3	4862.5	4704.7	4511.1	4281.6	4091.5	3958.9	3955.3	4059.3	4765.7
27.5°	5382.5	5414.7	5307.2	5156.6	4977.3	4690.4	4439.4	4260.1	4231.4	4371.2	5127.9
30°	5870.2	5909.6	5805.6	5658.6	5436.3	5192.4	4894.8	4686.8	4668.9	4855.3	5612.0
32.5°	6361.4	6372.2	6289.7	6167.8	5967.0	5737.5	5497.2	5267.7	5249.8	5554.6	6239.5
35°	6763.1	6795.3	6738.0	6709.3	6562.2	6350.7	6117.6	5984.9	6031.5	6422.4	7053.5
37.5°	7247.2	7279.4	7214.9	7207.7	7161.1	6978.2	6816.8	6827.6	6874.2	7404.9	7910.6
40°	7946.4	7982.3	7817.3	7745.6	7745.6	7566.3	7512.5	7767.1	7828.1	8373.1	8803.4
42.5°	8538.1	8595.5	8498.6	8452.0	8312.2	8186.7	8251.2	8609.8	8713.8	9298.3	9581.6
45°	8825.0	8868.0	8982.7	9119.0	8982.7	8764.0	9007.8	9413.1	9560.1	10151.8	10359.7
47.5°	8979.2	9018.6	9151.3	9517.0	9610.3	9427.4	9771.6	10277.3	10377.7	10998.0	11102.0
50°	9000.7	9126.2	9298.3	9664.1	10090.8	10115.9	10539.0	11155.8	11274.1	11830.0	11754.7
52.5°	8825.0	8875.2	9230.2	9847.0	10320.3	10750.6	11374.6	11998.5	12084.6	12611.7	12332.0
55°	8538.1	8609.8	8964.8	9803.9	10542.6	11353.0	12224.4	12826.9	12923.7	13371.9	12866.3
57.5°	8279.9	8315.8	8695.9	9678.4	10764.9	11955.5	12981.0	13691.1	13755.6	14038.9	13260.8
60°	7993.0	8032.5	8412.6	9409.5	10929.9	12410.9	13770.0	14562.4	14619.8	14741.7	13719.8
62.5°	7250.7	7354.7	7831.7	8964.8	10886.9	12930.8	14612.6	15423.1	15494.8	15362.1	14081.9
65°	5888.1	6035.1	6619.6	7957.2	10485.2	13267.9	15301.1	16215.6	16337.5	15828.3	14178.7
67.5°	4572.1	4676.0	5145.8	6314.8	9076.0	13099.4	15745.8	16760.6	16796.5	15753.0	13640.9
68°	4335.4	4439.4	4887.6	5970.6	8685.1	12898.6	15735.0	16775.0	16853.8	15670.5	13432.9
70°	3317.0	3435.3	3862.0	4729.8	6999.7	11622.0	15078.8	16430.7	16420.0	14673.6	12141.9
72.5°	2072.7	2140.8	2434.8	2983.5	4629.4	8842.9	12798.2	14490.7	14519.4	11962.6	9312.6
75°	1316.0	1316.0	1301.7	1445.1	2373.9	5038.2	9513.5	11155.8	11177.3	8376.7	5870.2
77.5°	1143.9	1111.6	957.4	810.4	946.7	1957.9	5629.9	7204.1	7085.8	4511.1	2786.3
80°	964.6	910.8	785.3	652.6	609.6	613.2	2162.3	3657.6	3499.9	1624.4	925.2
82.5°	695.7	649.1	591.7	512.8	469.8	365.8	451.8	1057.8	1032.7	469.8	301.2
85°	376.5	340.7	333.5	337.1	283.3	225.9	190.1	233.1	233.1	204.4	172.1
87.5°	132.7	96.8	114.7	129.1	111.2	93.2	75.3	89.6	93.2	89.6	82.5
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: P1211163

CATALOG NUMBER: ARCH4-190-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7	3553.7
2.5°	3568.0	3603.9	3689.9	3765.2	3819.0	3865.6	3890.7	3901.5	3926.6	3930.2	3923.0
5°	3596.7	3689.9	3819.0	3930.2	3991.1	4016.2	4023.4	4027.0	4016.2	4023.4	4016.2
7.5°	3672.0	3790.3	3973.2	4070.0	4080.8	4041.3	4044.9	4030.6	4044.9	4059.3	4059.3
10°	3786.7	3937.3	4109.5	4145.3	4098.7	4077.2	4120.2	4206.3	4235.0	4274.4	4274.4
12.5°	3937.3	4116.6	4238.6	4206.3	4163.3	4235.0	4360.5	4446.5	4475.2	4489.6	4478.8
15°	4109.5	4303.1	4364.1	4256.5	4335.4	4489.6	4532.6	4482.4	4410.7	4378.4	4396.3
17.5°	4328.2	4489.6	4453.7	4382.0	4561.3	4582.8	4443.0	4281.6	4166.8	4123.8	4152.5
20°	4557.7	4697.6	4532.6	4564.9	4676.0	4446.5	4181.2	3973.2	3872.8	3854.9	3883.6
22.5°	4801.6	4891.2	4611.5	4776.5	4611.5	4145.3	3826.2	3718.6	3693.5	3722.2	3747.3
25°	5077.7	5066.9	4747.8	4841.0	4371.2	3776.0	3585.9	3578.8	3578.8	3596.7	3632.5
27.5°	5389.6	5221.1	4884.0	4754.9	3955.3	3471.2	3435.3	3438.9	3428.1	3431.7	3449.7
30°	5751.8	5429.1	5034.6	4471.6	3489.1	3241.7	3227.3	3216.6	3191.5	3184.3	3191.5
32.5°	6207.2	5647.8	5188.8	4005.5	3080.3	3005.0	2997.8	2940.5	2879.5	2872.3	2897.4
35°	6784.6	6045.9	5267.7	3421.0	2743.2	2739.6	2714.5	2624.9	2546.0	2546.0	2528.1
37.5°	7444.4	6558.7	5300.0	2850.8	2463.5	2481.5	2409.7	2295.0	2234.0	2198.2	2208.9
40°	8118.5	7143.2	5296.4	2352.4	2219.7	2223.3	2169.5	2029.6	1879.0	1789.4	1810.9
42.5°	8767.6	7673.9	5203.2	2087.0	2022.5	2011.7	1968.7	1778.6	1653.1	1581.4	1585.0
45°	9287.5	8222.5	5059.7	1929.2	1843.2	1861.1	1764.3	1649.5	1534.8	1470.2	1466.6
47.5°	9807.5	8638.5	4830.2	1832.4	1710.5	1678.2	1638.8	1559.9	1473.8	1402.1	1405.7
50°	10280.8	8993.5	4615.1	1767.9	1588.6	1506.1	1513.3	1466.6	1391.3	1326.8	1323.2
52.5°	10614.3	9226.6	4496.8	1732.0	1441.5	1351.9	1377.0	1351.9	1280.2	1233.6	1230.0
55°	10947.8	9405.9	4536.2	1685.4	1280.2	1208.5	1251.5	1244.3	1204.9	1190.5	1194.1
57.5°	11216.8	9542.1	4676.0	1599.3	1126.0	1082.9	1154.7	1133.2	1104.5	1108.1	1108.1
60°	11478.5	9717.9	4841.0	1402.1	993.3	996.9	1065.0	1025.6	1007.6	1039.9	1043.5
62.5°	11751.1	9907.9	4704.7	1115.2	878.6	903.7	982.5	950.3	957.4	1004.1	1018.4
65°	11718.8	9890.0	3833.4	914.4	778.1	828.3	946.7	935.9	939.5	957.4	964.6
67.5°	11059.0	9258.9	2635.7	778.1	706.4	767.4	918.0	875.0	878.6	867.8	871.4
68°	10836.7	9036.5	2323.7	756.6	692.1	753.0	903.7	864.2	867.8	857.0	853.5
70°	9624.6	7738.4	1470.2	667.0	641.9	713.6	831.9	817.6	814.0	806.8	806.8
72.5°	7336.8	5712.4	774.6	577.3	584.5	652.6	742.3	771.0	753.0	756.6	778.1
75°	4858.9	3435.3	537.9	494.9	512.8	559.4	659.8	717.2	699.3	710.0	699.3
77.5°	2571.1	1850.3	430.3	419.6	419.6	451.8	545.1	634.7	634.7	627.5	616.8
80°	842.7	652.6	344.2	329.9	337.1	355.0	437.5	520.0	530.7	516.4	509.2
82.5°	283.3	301.2	258.2	240.3	247.4	261.8	329.9	398.0	401.6	372.9	365.8
85°	175.7	200.8	161.4	157.8	157.8	161.4	200.8	218.7	200.8	179.3	186.5
87.5°	82.5	100.4	75.3	64.5	53.8	46.6	35.9	14.3	14.3	7.2	7.2
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)