

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: P841663

Luminaire Tested: **ARCH4-210-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31333 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 213.1
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



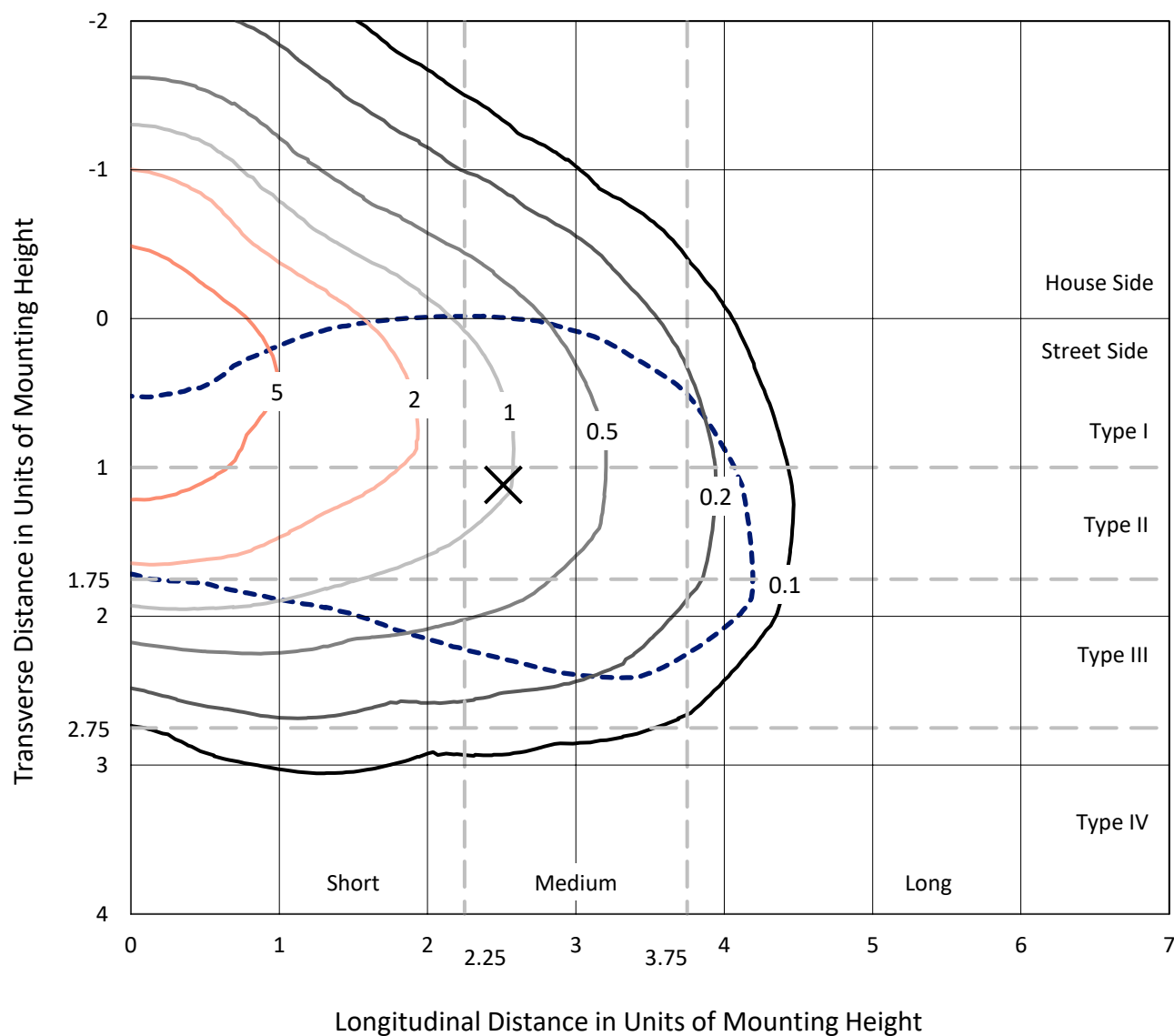
REPORT NUMBER: P841663

CATALOG NUMBER: ARCH4-210-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

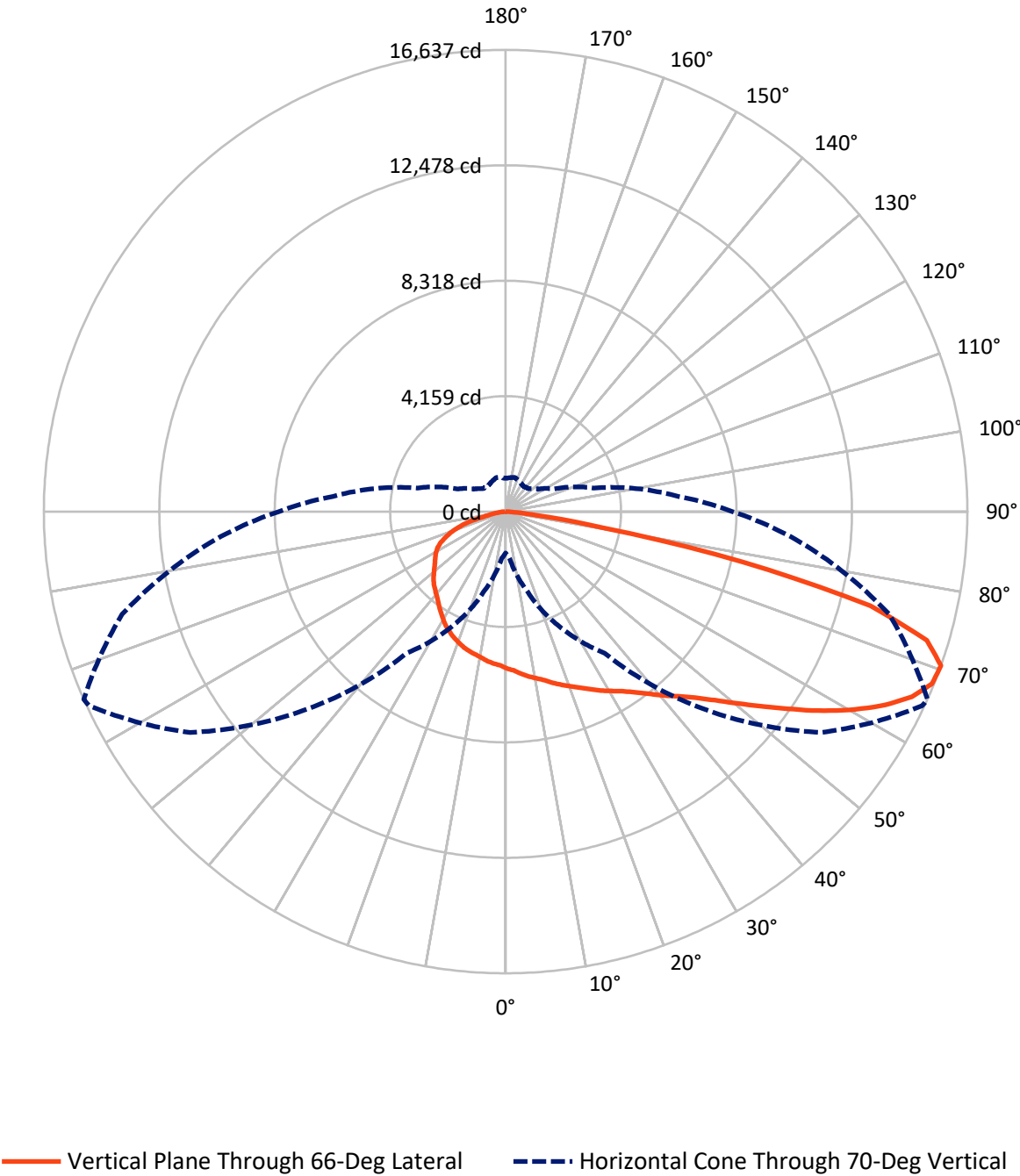
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Medium - N/A

REPORT NUMBER: P841663
CATALOG NUMBER: ARCH4-210-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841663

CATALOG NUMBER: ARCH4-210-727-U-T3

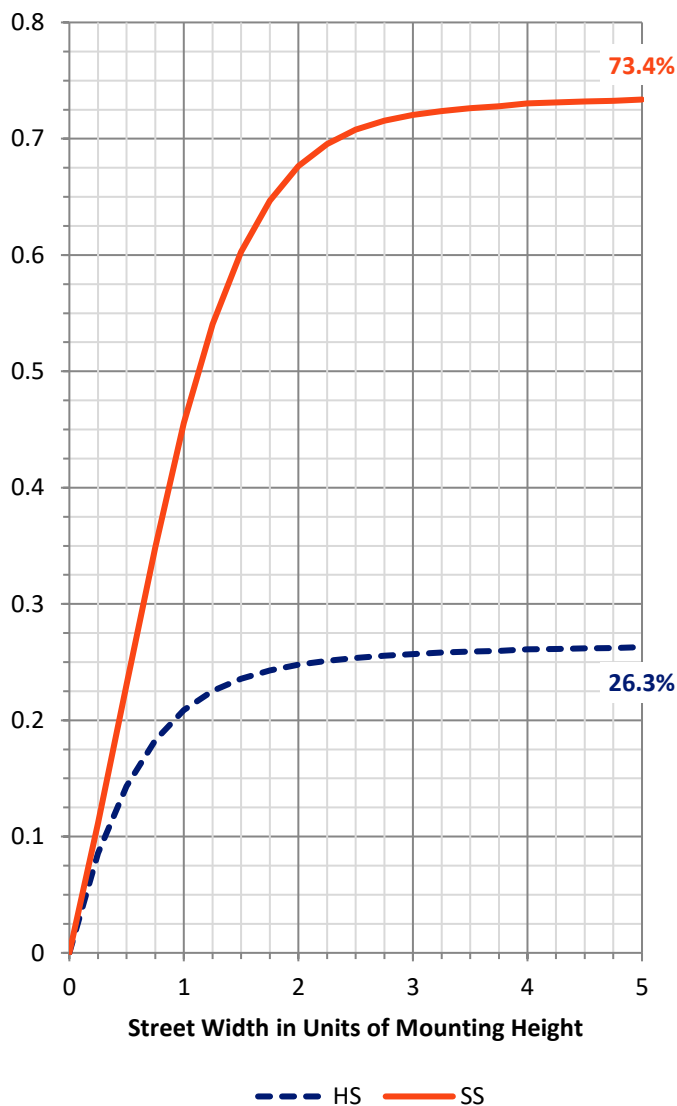
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8302.5	0.0	8302.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23030.5	0.0	23030.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	31333.0	0.0	31333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	1.7
10°-20°	1629.9	5.2
20°-30°	2732.3	8.7
30°-40°	4091.2	13.1
40°-50°	5469.9	17.5
50°-60°	6386.3	20.4
60°-70°	6350.2	20.3
70°-80°	3759.4	12.0
80°-90°	370.5	1.2
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°	31333.0	100.0
0°-180°	31333.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841663

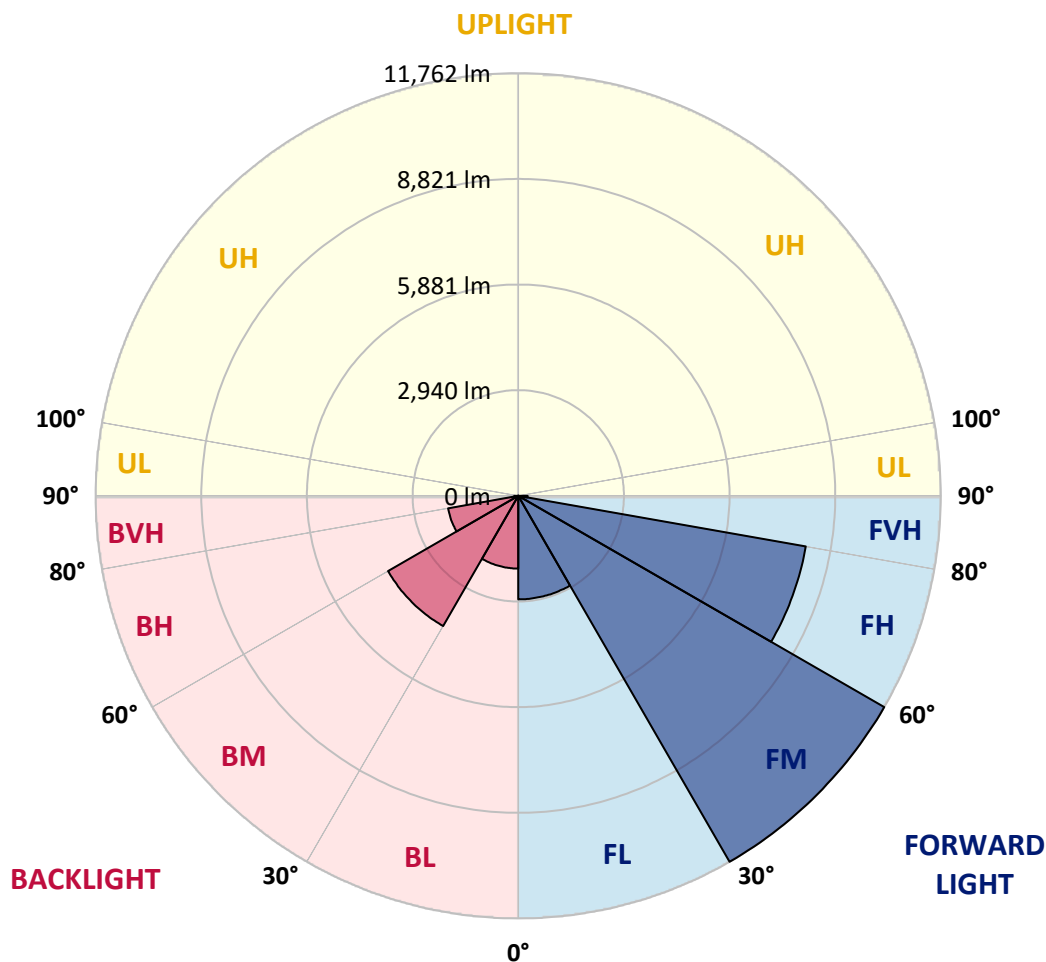
CATALOG NUMBER: ARCH4-210-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.8	9.2			
FM	(30°-60°)	11762.0	37.5			
FH	(60°-80°)	8126.3	25.9			G4/12000
FVH	(80°-90°)	260.4	0.8			G3/500
BL	(0°-30°)	2023.8	6.5	B3/2500		
BM	(30°-60°)	4185.3	13.4	B3/5000		
BH	(60°-80°)	1983.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	110.1	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 Medium



REPORT NUMBER: P841663

CATALOG NUMBER: ARCH4-210-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9
2.5°	5862.8	5853.6	5848.9	5830.5	5788.9	5807.4	5765.8	5738.1	5733.4	5668.8	5631.8
5°	6103.0	6098.4	6089.2	6061.5	5996.8	6006.0	5936.7	5885.9	5872.0	5770.4	5691.9
7.5°	6306.3	6297.1	6292.5	6255.5	6186.2	6181.6	6098.4	6024.5	6001.4	5862.8	5742.7
10°	6463.4	6449.5	6458.8	6421.8	6347.9	6334.0	6227.8	6130.8	6107.7	5932.1	5765.8
12.5°	6597.4	6588.1	6602.0	6569.7	6509.6	6495.7	6389.5	6264.7	6237.0	6033.7	5816.6
15°	6745.2	6712.9	6740.6	6726.7	6685.2	6680.5	6583.5	6444.9	6408.0	6163.1	5895.1
17.5°	6823.8	6805.3	6837.6	6842.2	6823.8	6856.1	6763.7	6597.4	6565.0	6283.2	5964.4
20°	6879.2	6851.5	6888.4	6916.2	6930.0	6994.7	6920.8	6759.1	6722.1	6398.7	6029.1
22.5°	7068.6	7008.6	7013.2	7031.7	7040.9	7133.3	7087.1	6930.0	6893.1	6541.9	6107.7
25°	7544.5	7424.4	7345.8	7290.4	7225.7	7304.2	7276.5	7124.1	7091.7	6712.9	6204.7
27.5°	8283.7	8131.2	7974.1	7812.4	7558.3	7526.0	7479.8	7341.2	7304.2	6883.8	6301.7
30°	9124.5	8972.1	8787.3	8528.5	8052.7	7803.2	7696.9	7544.5	7502.9	7036.3	6394.1
32.5°	9960.7	9826.8	9642.0	9327.8	8648.7	8140.5	7914.1	7757.0	7715.4	7202.6	6505.0
35°	10612.2	10529.0	10408.9	10016.2	9240.0	8537.8	8228.2	8038.8	7992.6	7465.9	6708.3
37.5°	11138.8	11078.8	10977.1	10566.0	9669.7	8935.1	8588.6	8371.5	8320.6	7752.4	6925.4
40°	11915.0	11757.9	11674.8	11078.8	10043.9	9295.5	8995.2	8768.8	8713.3	8057.3	7101.0
42.5°	12575.7	12460.2	12358.5	11536.2	10399.6	9605.0	9378.6	9170.7	9096.8	8357.6	7290.4
45°	12686.5	12732.7	12681.9	11762.5	10963.3	9909.9	9766.7	9632.7	9563.4	8764.2	7576.8
47.5°	12691.2	12691.2	12390.9	11891.9	11660.9	10251.8	10182.5	10228.7	10154.8	9281.6	7918.7
50°	12358.5	12418.6	12261.5	11924.2	11845.7	10593.7	10690.7	10940.2	10866.3	9831.4	8288.3
52.5°	11670.1	11868.8	11864.2	11873.4	11577.7	10884.7	11226.6	11794.9	11670.1	10450.5	8681.0
55°	10455.1	10852.4	11208.1	11513.1	11346.7	11060.3	11882.7	12705.0	12575.7	11143.5	9078.3
57.5°	9415.6	9669.7	10113.2	10977.1	11074.2	11212.8	12497.1	13656.8	13541.3	11910.4	9494.1
60°	8228.2	8579.4	9022.9	10251.8	10741.5	11411.4	13171.7	14585.4	14474.5	12686.5	9896.1
62.5°	6403.3	6856.1	7743.1	9138.4	10256.4	11536.2	13703.0	15403.1	15352.3	13421.1	10256.4
65°	4462.9	4864.9	6107.7	7770.9	9484.9	11480.7	14128.0	16133.1	16086.9	14021.7	10510.5
67.5°	2605.7	3072.3	4476.8	6255.5	8122.0	11097.3	14266.6	16562.7	16562.7	14386.7	10579.8
70°	1487.6	1704.8	2952.2	4560.0	6227.8	10039.3	13878.5	16558.1	16636.7	14303.6	10293.4
72.5°	1039.5	1136.5	1986.6	3067.7	4222.7	8122.0	12862.1	15758.9	15865.1	13518.2	9313.9
75°	808.5	877.8	1399.9	2092.9	2661.1	5516.3	10639.9	13287.2	13569.0	11522.3	7530.6
77.5°	614.5	665.3	817.7	1307.5	1704.8	3169.3	7022.4	8713.3	8731.8	7054.8	4037.9
80°	448.1	499.0	545.2	799.3	905.5	1483.0	2651.9	3640.6	3538.9	3414.2	2185.3
82.5°	268.0	318.8	332.6	434.3	443.5	632.9	928.6	1173.5	1127.3	1501.5	1025.6
85°	115.5	161.7	170.9	198.7	189.4	258.7	369.6	309.5	277.2	318.8	221.8
87.5°	27.7	46.2	46.2	50.8	41.6	64.7	69.3	50.8	46.2	55.4	55.4
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: P841663

CATALOG NUMBER: ARCH4-210-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9	5654.9
2.5°	5622.6	5608.7	5613.3	5534.8	5511.7	5488.6	5474.7	5465.5	5456.2	5470.1	5484.0
5°	5664.1	5631.8	5594.8	5479.3	5433.1	5382.3	5345.4	5313.0	5299.2	5299.2	5313.0
7.5°	5696.5	5641.0	5562.5	5410.0	5326.9	5257.6	5197.5	5155.9	5132.8	5132.8	5146.7
10°	5701.1	5622.6	5497.8	5313.0	5202.1	5100.5	5031.2	4985.0	4952.7	4952.7	4961.9
12.5°	5728.8	5622.6	5460.9	5239.1	5100.5	4975.8	4892.6	4823.3	4809.4	4809.4	4818.7
15°	5775.0	5645.7	5437.8	5174.4	5008.1	4864.9	4772.5	4698.6	4670.8	4689.3	4693.9
17.5°	5816.6	5659.5	5396.2	5091.3	4892.6	4735.5	4633.9	4569.2	4532.2	4573.8	4573.8
20°	5844.3	5659.5	5336.1	4985.0	4767.9	4592.3	4495.3	4416.7	4389.0	4439.8	4444.5
22.5°	5885.9	5654.9	5271.4	4878.7	4633.9	4449.1	4352.0	4292.0	4278.1	4333.6	4352.0
25°	5932.1	5664.1	5202.1	4758.6	4486.0	4305.8	4231.9	4204.2	4213.4	4282.7	4305.8
27.5°	5982.9	5682.6	5132.8	4624.6	4324.3	4162.6	4121.0	4134.9	4171.9	4259.6	4287.4
30°	6029.1	5687.2	5035.8	4467.6	4139.5	3987.1	4005.5	4065.6	4121.0	4208.8	4241.2
32.5°	6089.2	5691.9	4934.2	4296.6	3940.9	3830.0	3913.1	4010.2	4065.6	4148.8	4185.7
35°	6237.0	5770.4	4855.6	4130.3	3756.1	3696.0	3834.6	3959.3	3991.7	4065.6	4097.9
37.5°	6408.0	5899.8	4814.1	3959.3	3575.9	3562.0	3737.6	3862.3	3871.6	3917.8	3950.1
40°	6514.2	5955.2	4767.9	3816.1	3414.2	3423.4	3603.6	3700.6	3682.1	3714.5	3737.6
42.5°	6620.5	5973.7	4670.8	3696.0	3261.7	3271.0	3409.6	3478.9	3488.1	3557.4	3589.7
45°	6800.7	6024.5	4564.6	3585.1	3123.1	3090.8	3173.9	3266.3	3386.5	3520.4	3557.4
47.5°	7040.9	6130.8	4453.7	3451.1	2989.1	2882.9	2915.2	3076.9	3201.7	3326.4	3349.5
50°	7285.8	6237.0	4352.0	3289.4	2855.2	2661.1	2675.0	2822.8	2924.5	3021.5	3035.3
52.5°	7526.0	6329.4	4264.3	3137.0	2702.7	2397.8	2453.2	2605.7	2675.0	2721.2	2735.0
55°	7766.2	6408.0	4185.7	3007.6	2527.1	2189.9	2240.7	2383.9	2453.2	2476.3	2485.6
57.5°	8015.7	6500.4	4125.7	2896.7	2328.5	2005.1	2037.4	2139.1	2203.7	2231.5	2222.2
60°	8223.6	6578.9	4093.3	2781.2	2129.8	1834.1	1824.9	1917.3	2009.7	2037.4	2028.2
62.5°	8385.3	6629.7	4042.5	2633.4	1954.3	1663.2	1617.0	1737.1	1834.1	1852.6	1866.5
65°	8473.1	6634.3	3917.8	2444.0	1774.1	1478.4	1446.1	1566.2	1626.2	1644.7	1644.7
67.5°	8459.2	6560.4	3672.9	2189.9	1607.8	1312.1	1284.4	1358.3	1446.1	1459.9	1446.1
70°	8172.8	6255.5	3280.2	1921.9	1409.1	1164.2	1113.4	1187.3	1270.5	1219.7	1196.6
72.5°	7359.7	5465.5	2702.7	1626.2	1187.3	979.4	956.3	1030.3	1034.9	1044.1	1021.0
75°	5807.4	4070.2	2023.6	1265.9	961.0	822.4	817.7	803.9	822.4	859.3	831.6
77.5°	3049.2	2032.8	1094.9	776.2	697.6	660.7	628.3	623.7	679.1	702.2	674.5
80°	1654.0	1141.1	628.3	466.6	425.0	429.7	471.2	462.0	522.1	535.9	512.8
82.5°	720.7	540.5	309.5	281.8	281.8	277.2	291.1	323.4	388.1	388.1	309.5
85°	157.1	134.0	120.1	138.6	157.1	157.1	157.1	157.1	110.9	60.1	41.6
87.5°	50.8	50.8	50.8	55.4	60.1	60.1	50.8	37.0	23.1	4.6	0.0
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)