

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: P841672

Luminaire Tested: **ARCH4-210-730-U-T3**

Issue Date: 5/27/2024

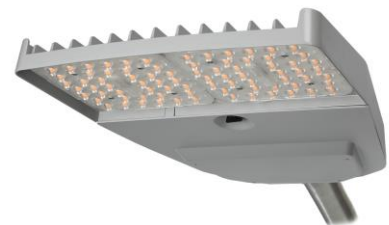
Test Information

Test Method: LM-79-08
Report Number: P841672
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: ARCH4-210-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32470 lumens
Efficiency: N/A
Efficacy: 152.4 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

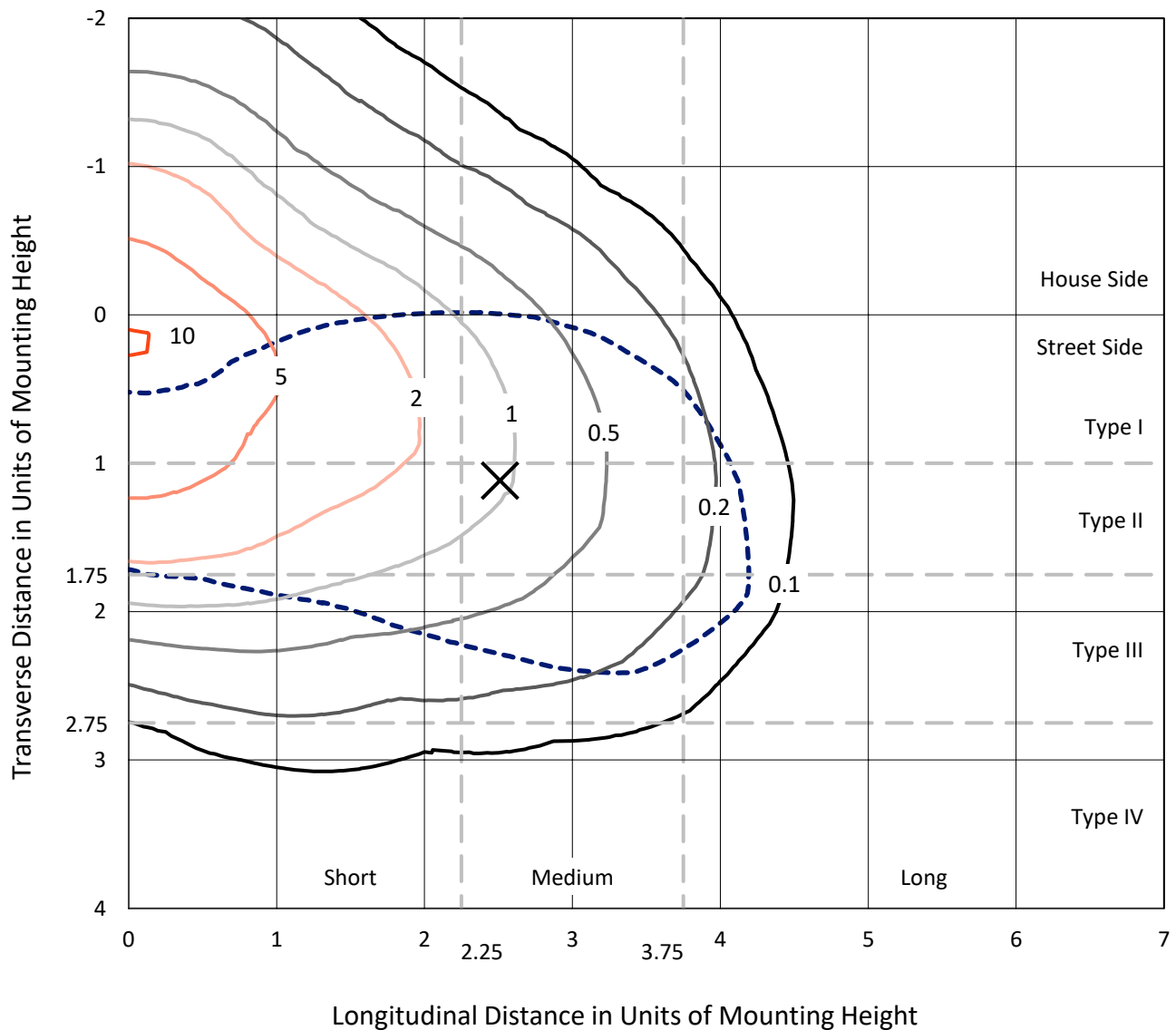


REPORT NUMBER: P841672

CATALOG NUMBER: ARCH4-210-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

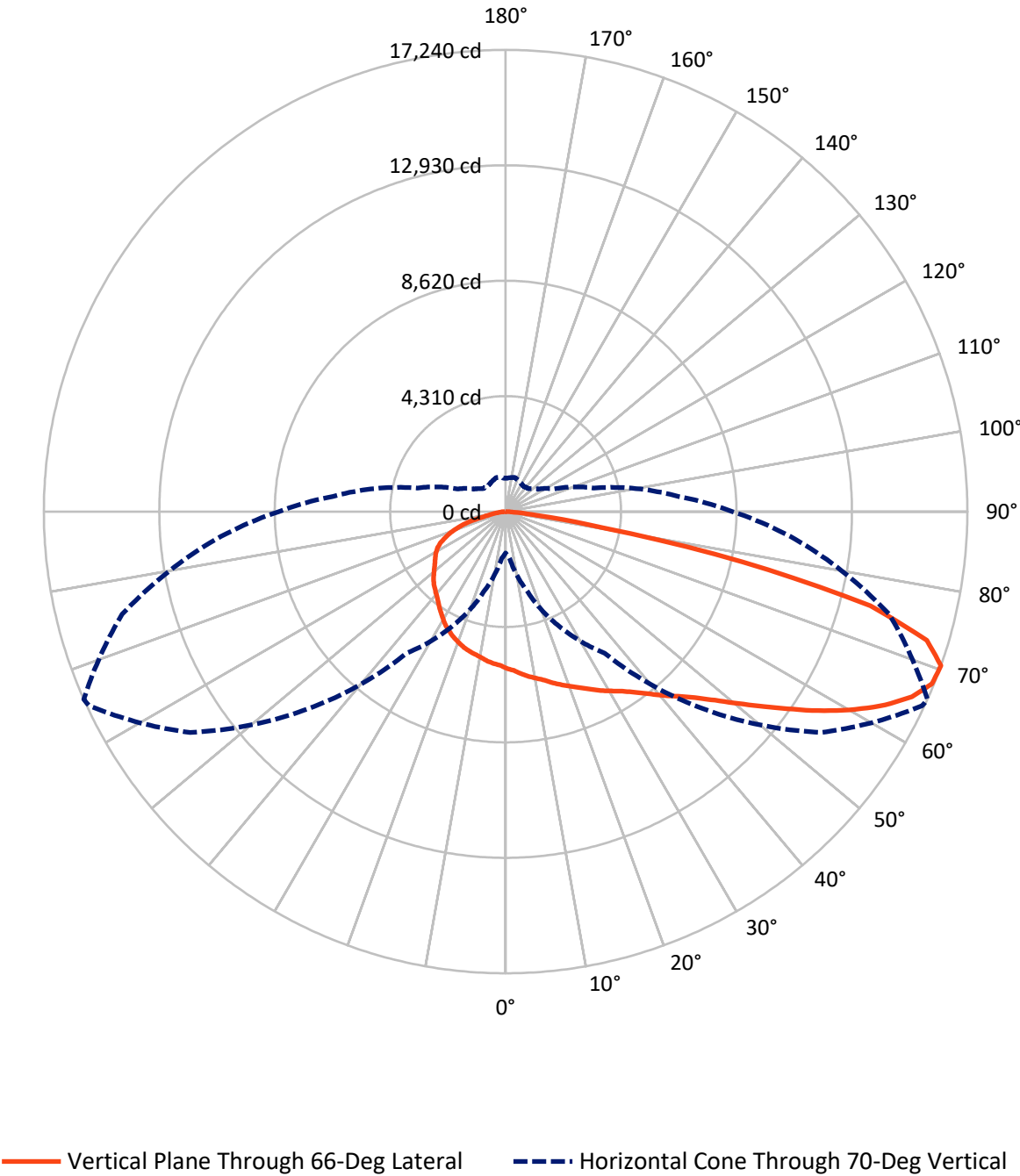
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Medium - N/A

REPORT NUMBER: P841672
CATALOG NUMBER: ARCH4-210-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841672

CATALOG NUMBER: ARCH4-210-730-U-T3

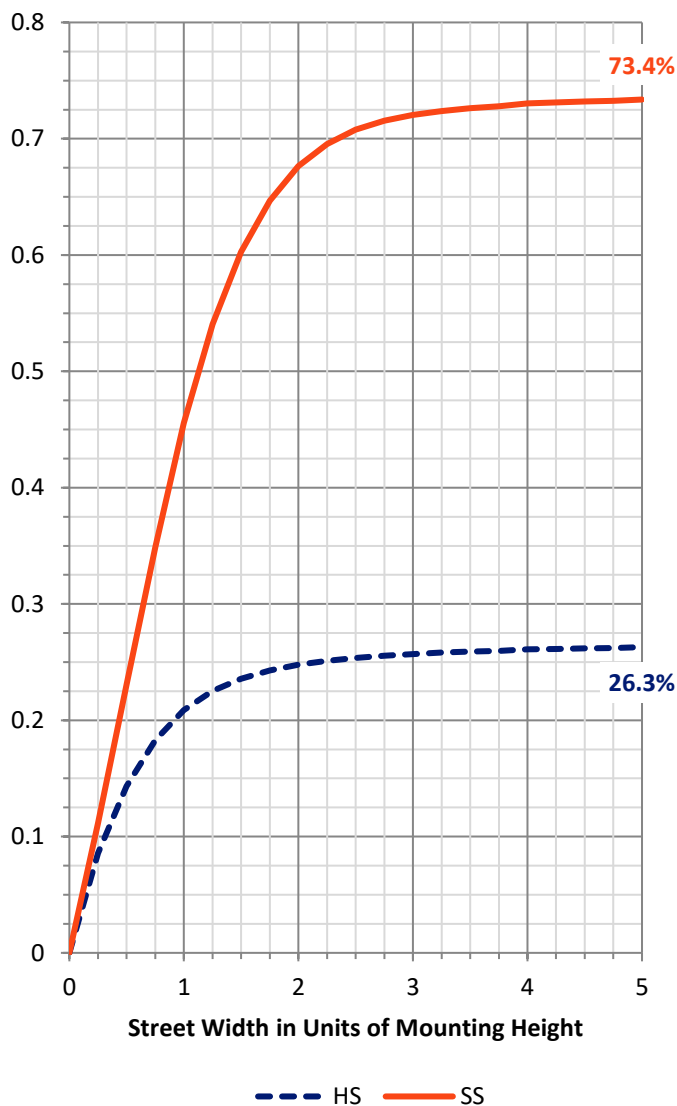
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8603.8	0.0	8603.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23866.2	0.0	23866.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	32470.0	0.0	32470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	1.7
10°-20°	1689.1	5.2
20°-30°	2831.4	8.7
30°-40°	4239.6	13.1
40°-50°	5668.4	17.5
50°-60°	6618.0	20.4
60°-70°	6580.6	20.3
70°-80°	3895.8	12.0
80°-90°	384.0	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°	32470.0	100.0
0°-180°	32470.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841672

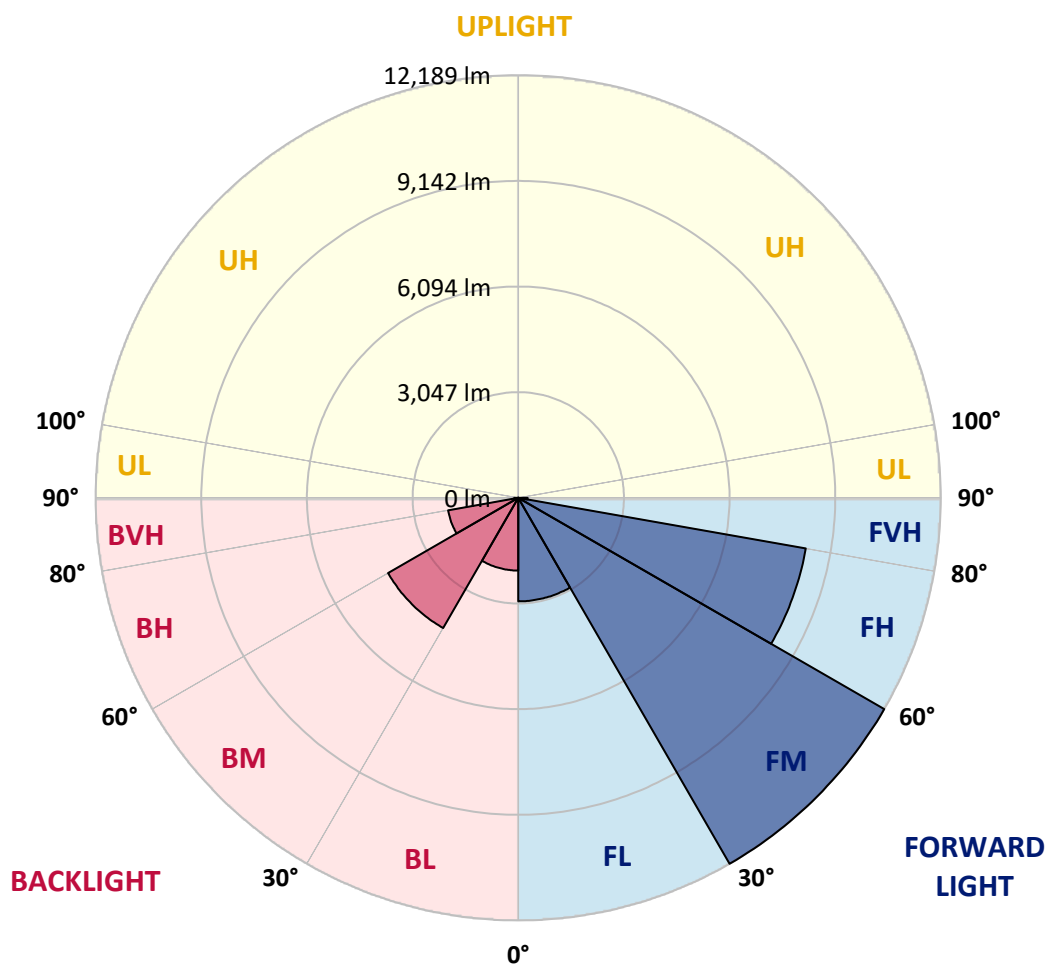
CATALOG NUMBER: ARCH4-210-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2986.4	9.2			
FM	(30°-60°)	12188.8	37.5			
FH	(60°-80°)	8421.2	25.9			G4/12000
FVH	(80°-90°)	269.9	0.8			G3/500
BL	(0°-30°)	2097.2	6.5	B3/2500		
BM	(30°-60°)	4337.2	13.4	B3/5000		
BH	(60°-80°)	2055.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	114.1	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: P841672

CATALOG NUMBER: ARCH4-210-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	6075.5	6066.0	6061.2	6042.0	5998.9	6018.1	5975.0	5946.3	5941.5	5874.5	5836.2
5°	6324.5	6319.7	6310.1	6281.4	6214.4	6224.0	6152.1	6099.5	6085.1	5979.8	5898.4
7.5°	6535.2	6525.6	6520.8	6482.5	6410.7	6405.9	6319.7	6243.1	6219.2	6075.5	5951.1
10°	6697.9	6683.6	6693.1	6654.8	6578.2	6563.9	6453.8	6353.2	6329.3	6147.4	5975.0
12.5°	6836.8	6827.2	6841.6	6808.1	6745.8	6731.4	6621.3	6492.1	6463.3	6252.7	6027.7
15°	6990.0	6956.5	6985.2	6970.8	6927.7	6923.0	6822.4	6678.8	6640.5	6386.7	6109.1
17.5°	7071.4	7052.2	7085.7	7090.5	7071.4	7104.9	7009.1	6836.8	6803.3	6511.2	6180.9
20°	7128.8	7100.1	7138.4	7167.1	7181.5	7248.5	7171.9	7004.3	6966.0	6630.9	6247.9
22.5°	7325.1	7262.9	7267.7	7286.8	7296.4	7392.1	7344.3	7181.5	7143.2	6779.3	6329.3
25°	7818.2	7693.8	7612.4	7554.9	7487.9	7569.3	7540.6	7382.6	7349.1	6956.5	6429.8
27.5°	8584.3	8426.3	8263.5	8095.9	7832.6	7799.1	7751.2	7607.6	7569.3	7133.6	6530.4
30°	9455.6	9297.6	9106.1	8838.0	8344.9	8086.4	7976.2	7818.2	7775.2	7291.6	6626.1
32.5°	10322.2	10183.4	9991.8	9666.3	8962.5	8435.9	8201.3	8038.5	7995.4	7464.0	6741.0
35°	10997.3	10911.1	10786.6	10379.6	9575.3	8847.6	8526.8	8330.5	8282.7	7736.9	6951.7
37.5°	11543.0	11480.8	11375.5	10949.4	10020.6	9259.3	8900.3	8675.2	8622.6	8033.7	7176.7
40°	12347.4	12184.6	12098.4	11480.8	10408.4	9632.8	9321.6	9087.0	9029.5	8349.7	7358.6
42.5°	13032.0	12912.3	12807.0	11954.8	10777.0	9953.5	9718.9	9503.5	9426.9	8660.9	7554.9
45°	13146.9	13194.8	13142.1	12189.4	11361.1	10269.5	10121.1	9982.3	9910.5	9082.2	7851.8
47.5°	13151.7	13151.7	12840.5	12323.4	12084.1	10623.8	10552.0	10599.9	10523.3	9618.4	8206.0
50°	12807.0	12869.2	12706.4	12356.9	12275.6	10978.1	11078.6	11337.2	11260.6	10188.1	8589.1
52.5°	12093.6	12299.5	12294.7	12304.3	11997.9	11279.7	11634.0	12222.9	12093.6	10829.7	8996.0
55°	10834.5	11246.2	11614.9	11930.8	11758.5	11461.7	12313.9	13166.1	13032.0	11547.8	9407.8
57.5°	9757.3	10020.6	10480.2	11375.5	11476.0	11619.7	12950.6	14152.3	14032.6	12342.6	9838.6
60°	8526.8	8890.7	9350.3	10623.8	11131.3	11825.5	13649.6	15114.6	14999.7	13146.9	10255.2
62.5°	6635.7	7104.9	8024.1	9470.0	10628.6	11954.8	14200.2	15962.1	15909.4	13908.2	10628.6
65°	4624.9	5041.4	6329.3	8052.8	9829.1	11897.3	14640.7	16718.5	16670.6	14530.5	10891.9
67.5°	2700.2	3183.8	4639.2	6482.5	8416.7	11500.0	14784.3	17163.8	17163.8	14908.8	10963.7
70°	1541.6	1766.6	3059.3	4725.4	6453.8	10403.6	14382.1	17159.0	17240.4	14822.6	10666.9
72.5°	1077.2	1177.8	2058.7	3179.0	4375.9	8416.7	13328.8	16330.7	16440.8	14008.7	9651.9
75°	837.8	909.7	1450.7	2168.8	2757.7	5716.5	11026.0	13769.3	14061.4	11940.4	7803.9
77.5°	636.8	689.4	847.4	1354.9	1766.6	3284.3	7277.2	9029.5	9048.7	7310.8	4184.4
80°	464.4	517.1	564.9	828.3	938.4	1536.8	2748.1	3772.7	3667.3	3538.1	2264.6
82.5°	277.7	330.3	344.7	450.0	459.6	655.9	962.3	1216.1	1168.2	1556.0	1062.9
85°	119.7	167.6	177.1	205.9	196.3	268.1	383.0	320.8	287.3	330.3	229.8
87.5°	28.7	47.9	47.9	52.7	43.1	67.0	71.8	52.7	47.9	57.5	57.5
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: P841672

CATALOG NUMBER: ARCH4-210-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5826.6	5812.2	5817.0	5735.6	5711.7	5687.7	5673.4	5663.8	5654.2	5668.6	5683.0
5°	5869.7	5836.2	5797.9	5678.2	5630.3	5577.6	5539.3	5505.8	5491.4	5491.4	5505.8
7.5°	5903.2	5845.7	5764.3	5606.3	5520.2	5448.4	5386.1	5343.0	5319.1	5319.1	5333.5
10°	5908.0	5826.6	5697.3	5505.8	5390.9	5285.6	5213.8	5165.9	5132.4	5132.4	5141.9
12.5°	5936.7	5826.6	5659.0	5429.2	5285.6	5156.3	5070.1	4998.3	4984.0	4984.0	4993.5
15°	5984.6	5850.5	5635.1	5362.2	5189.8	5041.4	4945.7	4869.0	4840.3	4859.5	4864.3
17.5°	6027.7	5864.9	5592.0	5276.0	5070.1	4907.4	4802.0	4735.0	4696.7	4739.8	4739.8
20°	6056.4	5864.9	5529.7	5165.9	4940.9	4758.9	4658.4	4577.0	4548.3	4600.9	4605.7
22.5°	6099.5	5860.1	5462.7	5055.8	4802.0	4610.5	4510.0	4447.7	4433.4	4490.8	4510.0
25°	6147.4	5869.7	5390.9	4931.3	4648.8	4462.1	4385.5	4356.8	4366.3	4438.2	4462.1
27.5°	6200.0	5888.8	5319.1	4792.4	4481.2	4313.7	4270.6	4285.0	4323.3	4414.2	4442.9
30°	6247.9	5893.6	5218.5	4629.7	4289.7	4131.8	4150.9	4213.1	4270.6	4361.6	4395.1
32.5°	6310.1	5898.4	5113.2	4452.5	4083.9	3969.0	4055.1	4155.7	4213.1	4299.3	4337.6
35°	6463.3	5979.8	5031.8	4280.2	3892.4	3830.1	3973.8	4103.0	4136.5	4213.1	4246.7
37.5°	6640.5	6113.8	4988.7	4103.0	3705.6	3691.3	3873.2	4002.5	4012.1	4059.9	4093.4
40°	6750.6	6171.3	4940.9	3954.6	3538.1	3547.7	3734.4	3834.9	3815.8	3849.3	3873.2
42.5°	6860.7	6190.4	4840.3	3830.1	3380.1	3389.7	3533.3	3605.1	3614.7	3686.5	3720.0
45°	7047.4	6243.1	4730.2	3715.2	3236.5	3202.9	3289.1	3384.9	3509.4	3648.2	3686.5
47.5°	7296.4	6353.2	4615.3	3576.4	3097.6	2987.5	3021.0	3188.6	3317.8	3447.1	3471.1
50°	7550.1	6463.3	4510.0	3408.8	2958.8	2757.7	2772.1	2925.3	3030.6	3131.1	3145.5
52.5°	7799.1	6559.1	4419.0	3250.8	2800.8	2484.8	2542.2	2700.2	2772.1	2819.9	2834.3
55°	8048.1	6640.5	4337.6	3116.8	2618.8	2269.4	2322.0	2470.4	2542.2	2566.2	2575.8
57.5°	8306.6	6736.2	4275.4	3001.9	2413.0	2077.8	2111.4	2216.7	2283.7	2312.4	2302.9
60°	8522.0	6817.6	4241.9	2882.2	2207.1	1900.7	1891.1	1986.9	2082.6	2111.4	2101.8
62.5°	8689.6	6870.3	4189.2	2729.0	2025.2	1723.6	1675.7	1800.2	1900.7	1919.9	1934.2
65°	8780.6	6875.1	4059.9	2532.7	1838.5	1532.1	1498.5	1623.0	1685.3	1704.4	1704.4
67.5°	8766.2	6798.5	3806.2	2269.4	1666.1	1359.7	1331.0	1407.6	1498.5	1512.9	1498.5
70°	8469.4	6482.5	3399.2	1991.7	1460.2	1206.5	1153.8	1230.4	1316.6	1263.9	1240.0
72.5°	7626.7	5663.8	2800.8	1685.3	1230.4	1015.0	991.0	1067.6	1072.4	1082.0	1058.1
75°	6018.1	4217.9	2097.0	1311.8	995.8	852.2	847.4	833.1	852.2	890.5	861.8
77.5°	3159.9	2106.6	1134.7	804.3	722.9	684.6	651.1	646.3	703.8	727.7	699.0
80°	1714.0	1182.6	651.1	483.6	440.5	445.3	488.3	478.8	541.0	555.4	531.4
82.5°	746.9	560.2	320.8	292.0	292.0	287.3	301.6	335.1	402.2	402.2	320.8
85°	162.8	138.8	124.5	143.6	162.8	162.8	162.8	162.8	114.9	62.2	43.1
87.5°	52.7	52.7	52.7	57.5	62.2	62.2	52.7	38.3	23.9	4.8	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)