

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: P841380

Luminaire Tested: **ARCH4-170-730-U-T2R**

Issue Date: 5/27/2024

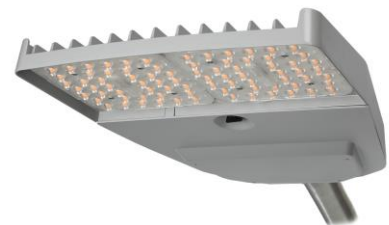
Test Information

Test Method: LM-79-08
Report Number: P841380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27356 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

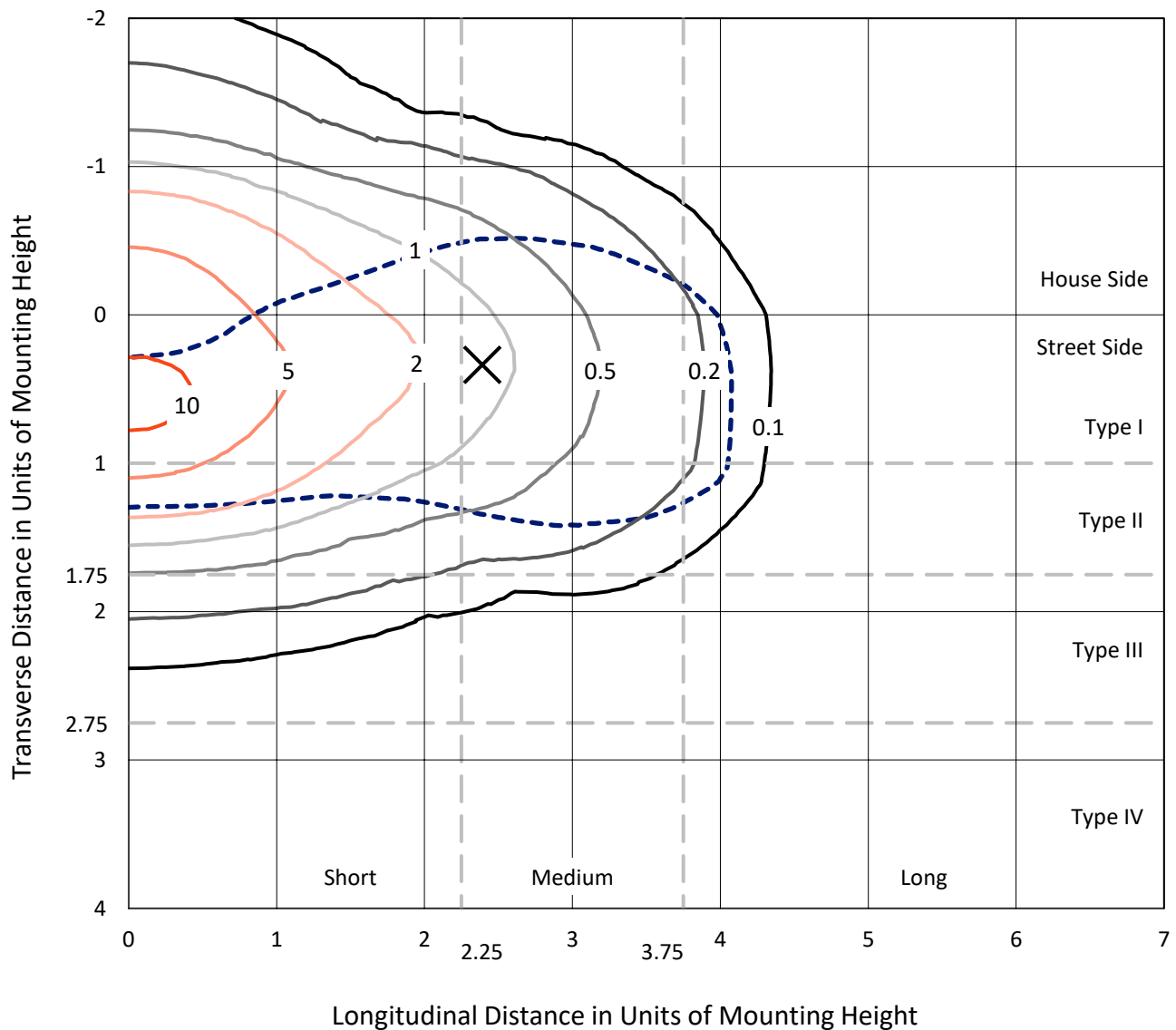
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841380
CATALOG NUMBER: ARCH4-170-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

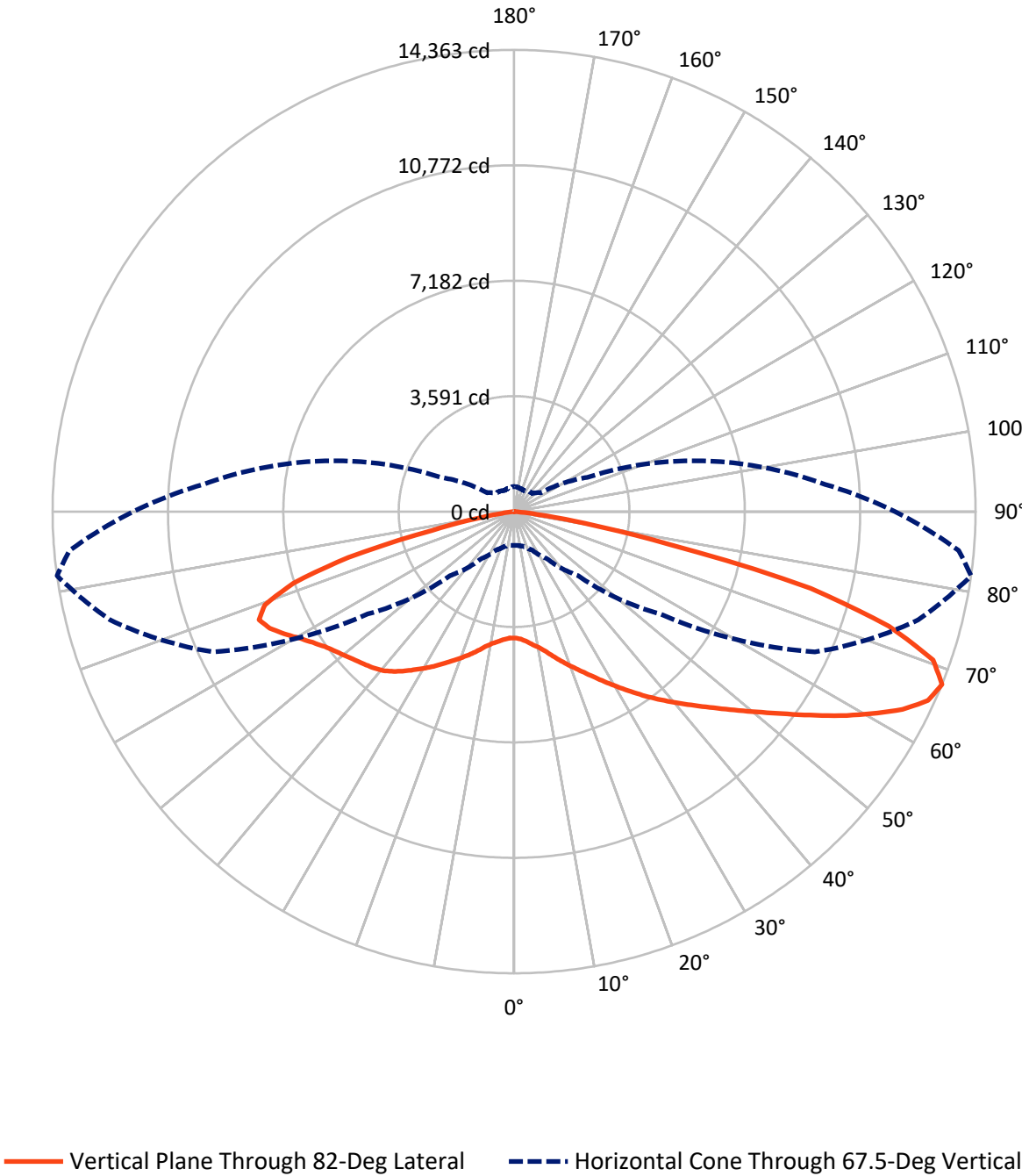
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Medium - N/A

REPORT NUMBER: P841380
CATALOG NUMBER: ARCH4-170-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P841380

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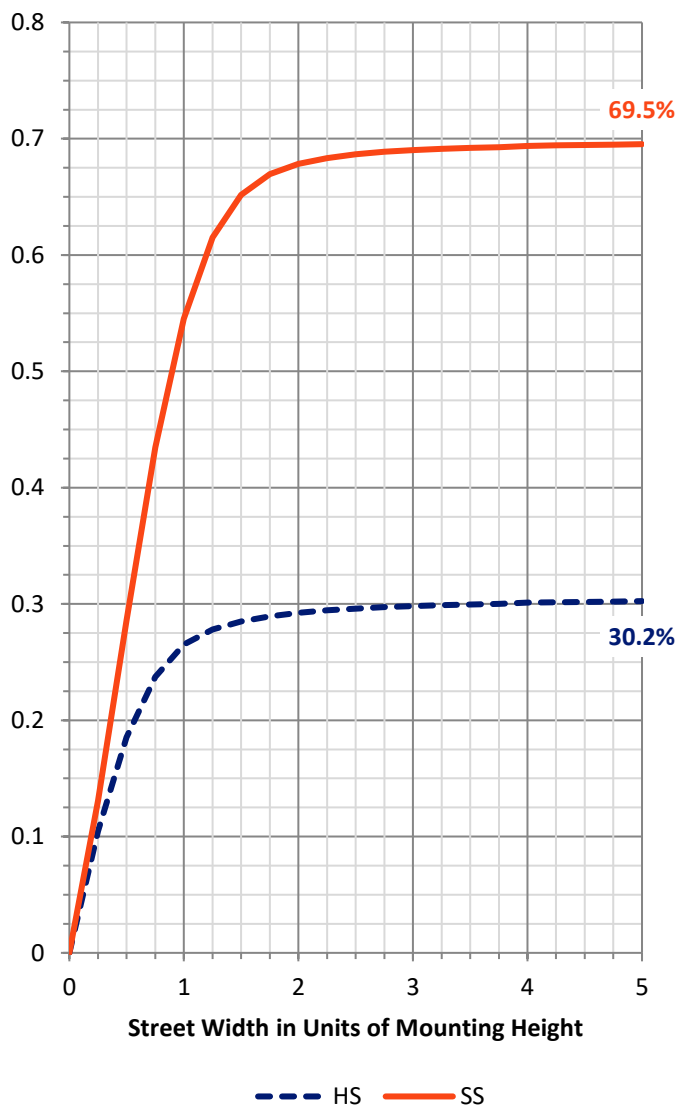
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8331.0	0.0	8331.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	19025.0	0.0	19025.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	27356.0	0.0	27356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.5
10°-20°	1463.9	5.4
20°-30°	2942.0	10.8
30°-40°	4621.5	16.9
40°-50°	5629.9	20.6
50°-60°	5319.5	19.4
60°-70°	4392.7	16.1
70°-80°	2392.0	8.7
80°-90°	188.1	0.7
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°	27356.0	100.0
0°-180°	27356.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841380

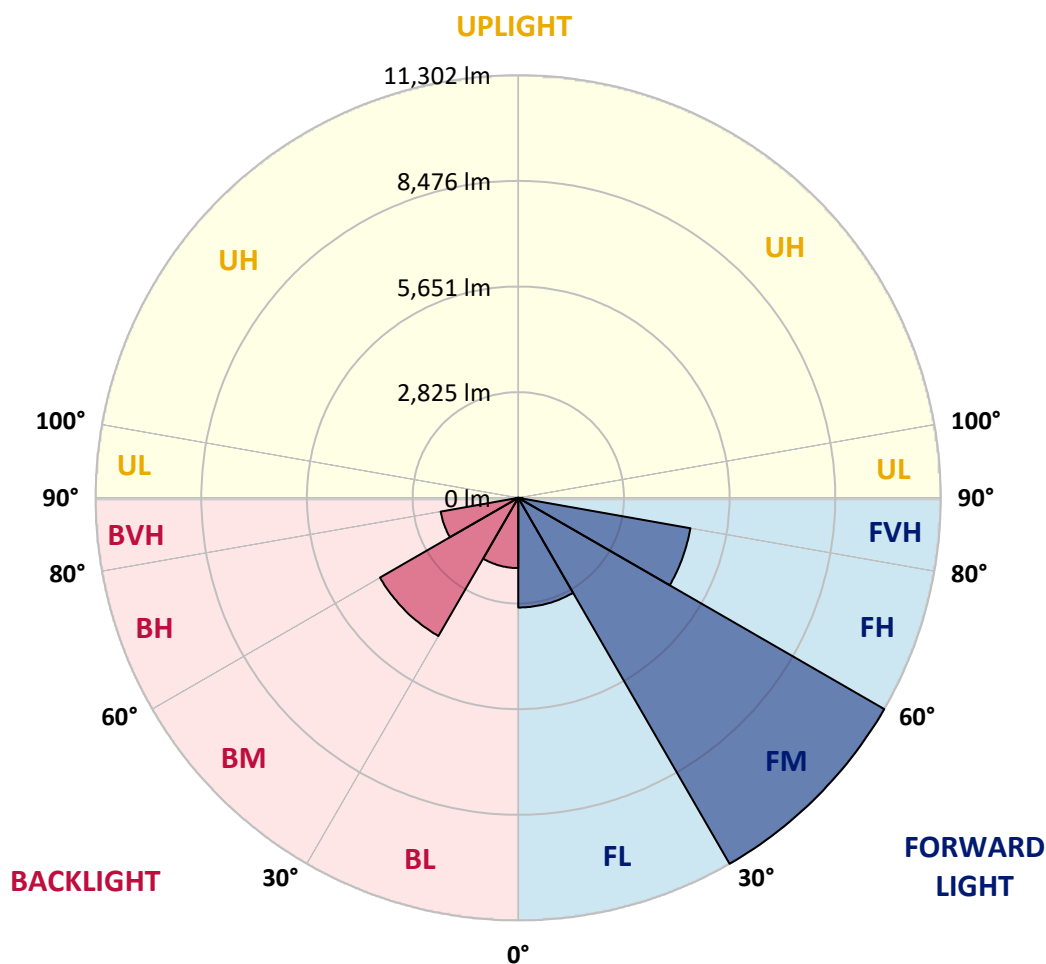
CATALOG NUMBER: ARCH4-170-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2933.6	10.7			
FM	(30°-60°)	11301.9	41.3			
FH	(60°-80°)	4676.1	17.1			G2/5000
FVH	(80°-90°)	113.4	0.4			G2/225
BL	(0°-30°)	1878.7	6.9	B3/2500		
BM	(30°-60°)	4269.0	15.6	B3/5000		
BH	(60°-80°)	2108.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	74.7	0.3			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 Medium



REPORT NUMBER: P841380

CATALOG NUMBER: ARCH4-170-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4
2.5°	4111.2	4111.2	4142.9	4142.9	4115.1	4071.4	4059.5	4011.9	3968.2	3968.2	3972.1
5°	4504.4	4500.4	4524.3	4492.5	4425.0	4337.6	4278.0	4174.7	4087.3	4059.5	4055.5
7.5°	4985.0	4981.1	4993.0	4941.3	4814.2	4671.2	4552.1	4385.2	4242.2	4182.7	4166.8
10°	5521.3	5517.3	5505.4	5418.0	5247.2	5024.7	4846.0	4615.6	4401.1	4305.8	4285.9
12.5°	6136.9	6129.0	6101.2	5974.1	5739.7	5453.7	5195.5	4897.6	4611.6	4480.6	4436.9
15°	6824.1	6812.2	6760.6	6605.7	6291.9	5930.4	5596.7	5215.4	4865.9	4695.1	4635.5
17.5°	7547.1	7547.1	7467.6	7237.2	6887.7	6438.8	6025.7	5541.1	5132.0	4921.5	4850.0
20°	8281.9	8277.9	8178.6	7900.6	7487.5	6971.1	6446.8	5914.5	5406.1	5151.9	5064.5
22.5°	9056.5	9048.5	8925.4	8607.6	8115.1	7531.2	6919.5	6283.9	5708.0	5402.1	5290.9
25°	9946.2	9934.3	9783.4	9394.1	8810.2	8150.8	7451.7	6716.9	6053.5	5680.1	5549.1
27.5°	10891.6	10875.7	10697.0	10244.1	9604.6	8810.2	8039.6	7217.4	6434.9	5990.0	5843.0
30°	11733.7	11721.8	11527.1	11062.4	10327.5	9465.6	8599.7	7717.9	6836.0	6319.7	6136.9
32.5°	12369.2	12369.2	12194.4	11737.7	10975.0	10093.2	9163.7	8190.5	7253.1	6673.2	6458.7
35°	12754.5	12766.4	12615.5	12250.1	11531.1	10685.0	9747.6	8746.6	7698.0	7050.5	6820.2
37.5°	12810.1	12849.8	12762.5	12516.2	11916.4	11177.6	10319.6	9282.9	8158.8	7431.9	7173.7
40°	12551.9	12579.7	12583.7	12488.4	12075.3	11531.1	10824.1	9850.9	8647.3	7833.0	7535.1
42.5°	12035.6	12055.4	12091.2	12119.0	11960.1	11686.0	11209.4	10379.2	9167.7	8242.2	7892.6
45°	11368.2	11364.3	11423.9	11543.0	11535.1	11598.6	11423.9	10859.8	9707.9	8706.9	8289.8
47.5°	10371.2	10351.4	10561.9	10832.0	10967.1	11265.0	11427.8	11237.2	10295.8	9219.3	8742.7
50°	8810.2	8790.3	9251.1	9886.6	10283.9	10736.7	11209.4	11463.6	10911.4	9795.3	9235.2
52.5°	6911.5	6891.6	7475.6	8587.7	9453.7	10113.0	10768.5	11515.2	11495.4	10438.8	9791.3
55°	5139.9	5124.1	5692.1	6895.6	8297.8	9390.1	10228.2	11380.2	12043.5	11177.6	10466.6
57.5°	3622.6	3614.6	4107.2	5104.2	6812.2	8508.3	9707.9	11118.0	12548.0	11980.0	11229.2
60°	2542.2	2530.2	2887.7	3658.3	5151.9	7177.6	9191.5	10768.5	12925.3	12770.4	12039.5
62.5°	1712.0	1704.0	1958.3	2601.7	3658.3	5525.2	8409.0	10534.1	13139.8	13564.8	12857.8
65°	1298.9	1294.9	1410.1	1763.6	2589.8	3968.2	7165.7	10506.3	13167.6	14160.7	13552.9
67.5°	1048.6	1052.6	1116.2	1318.7	1791.4	2820.2	5557.0	10331.5	13020.6	14363.2	13890.5
70°	858.0	858.0	885.8	1020.8	1322.7	1902.7	3880.8	9537.1	12611.5	13834.9	13489.4
72.5°	655.4	659.4	746.8	826.2	997.0	1334.6	2486.6	7892.6	11646.3	12198.4	11936.3
75°	520.3	516.4	568.0	679.2	774.6	953.3	1525.3	5660.3	9910.5	9533.1	9366.3
77.5°	373.4	369.4	409.1	504.5	587.9	675.3	909.6	2856.0	5390.2	4953.2	4830.1
80°	254.2	246.3	282.0	349.5	389.3	397.2	444.9	1096.3	2351.5	2216.4	2188.6
82.5°	131.1	131.1	150.9	198.6	202.6	206.6	198.6	353.5	778.5	726.9	695.1
85°	51.6	51.6	55.6	67.5	67.5	71.5	71.5	91.4	83.4	79.4	75.5
87.5°	4.0	4.0	7.9	7.9	11.9	11.9	11.9	15.9	19.9	19.9	19.9
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: P841380

CATALOG NUMBER: ARCH4-170-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4	3932.4
2.5°	3964.2	3948.3	3896.7	3884.7	3876.8	3864.9	3868.9	3841.1	3829.1	3833.1	3817.2
5°	4035.7	4007.9	3944.3	3916.5	3908.6	3896.7	3908.6	3888.7	3868.9	3876.8	3868.9
7.5°	4135.0	4095.3	4015.8	3988.0	3984.0	3972.1	3988.0	3972.1	3956.2	3964.2	3948.3
10°	4238.3	4186.6	4099.2	4071.4	4071.4	4067.5	4083.4	4059.5	4043.6	4047.6	4039.7
12.5°	4389.2	4321.7	4226.3	4202.5	4190.6	4202.5	4206.5	4174.7	4146.9	4150.9	4139.0
15°	4571.9	4496.5	4393.2	4357.4	4349.5	4345.5	4329.6	4289.9	4254.2	4250.2	4238.3
17.5°	4770.5	4675.2	4552.1	4516.3	4480.6	4468.6	4428.9	4377.3	4321.7	4321.7	4305.8
20°	4961.2	4853.9	4707.0	4655.3	4603.7	4556.0	4488.5	4405.1	4333.6	4321.7	4305.8
22.5°	5167.7	5040.6	4869.8	4794.4	4703.0	4607.7	4492.5	4381.3	4289.9	4270.0	4258.1
25°	5398.1	5239.2	5036.7	4925.4	4778.5	4631.5	4460.7	4317.7	4210.5	4178.7	4170.7
27.5°	5652.3	5461.7	5215.4	5052.6	4838.1	4607.7	4389.2	4218.4	4087.3	4047.6	4035.7
30°	5910.5	5684.1	5378.3	5139.9	4838.1	4532.2	4258.1	4059.5	3908.6	3853.0	3845.0
32.5°	6168.7	5914.5	5525.2	5187.6	4790.4	4405.1	4087.3	3853.0	3682.2	3614.6	3630.5
35°	6478.5	6168.7	5660.3	5207.5	4710.9	4250.2	3892.7	3618.6	3443.8	3384.3	3396.2
37.5°	6800.3	6422.9	5767.5	5191.6	4599.7	4075.4	3674.2	3408.1	3189.6	3086.3	3098.3
40°	7078.3	6653.3	5843.0	5136.0	4456.7	3876.8	3459.7	3110.2	2808.3	2709.0	2697.1
42.5°	7340.5	6824.1	5882.7	5052.6	4293.9	3646.4	3153.9	2705.0	2403.1	2280.0	2284.0
45°	7614.6	6991.0	5866.8	4941.3	4091.3	3376.3	2760.6	2307.8	2041.7	1930.5	1934.4
47.5°	7928.4	7169.7	5851.0	4822.2	3845.0	3026.8	2383.3	1958.3	1727.9	1648.4	1640.5
50°	8262.0	7368.3	5831.1	4675.2	3570.9	2637.5	2009.9	1632.5	1437.9	1386.3	1374.4
52.5°	8639.4	7582.8	5819.2	4500.4	3241.3	2224.4	1676.2	1346.6	1215.5	1179.7	1175.8
55°	9092.2	7833.0	5835.1	4289.9	2844.0	1835.1	1394.2	1159.9	1072.5	1052.6	1048.6
57.5°	9644.3	8154.8	5882.7	4043.6	2427.0	1497.5	1187.7	1044.7	989.1	973.2	973.2
60°	10244.1	8520.2	5970.1	3765.6	2009.9	1235.3	1052.6	953.3	929.5	949.3	949.3
62.5°	10891.6	8949.2	6125.0	3428.0	1620.6	1044.7	945.4	877.8	862.0	901.7	905.6
65°	11491.4	9366.3	6224.3	3022.8	1287.0	905.6	862.0	802.4	810.3	850.0	846.1
67.5°	11860.8	9711.9	6085.3	2514.4	1020.8	802.4	774.6	722.9	742.8	774.6	778.5
70°	11634.4	9517.2	5398.1	1898.7	798.4	699.1	679.2	647.5	663.3	703.1	719.0
72.5°	10526.2	8524.2	4198.5	1283.0	643.5	587.9	595.8	579.9	599.8	635.5	671.3
75°	8544.1	6442.8	2816.2	822.2	508.4	500.5	512.4	500.5	508.4	544.2	564.0
77.5°	4460.7	3142.0	1402.2	512.4	377.4	389.3	409.1	413.1	436.9	444.9	452.8
80°	2081.4	1414.1	583.9	286.0	250.2	274.1	313.8	317.8	325.7	337.6	341.6
82.5°	679.2	425.0	270.1	154.9	143.0	154.9	202.6	242.3	246.3	270.1	270.1
85°	71.5	43.7	59.6	63.6	55.6	67.5	91.4	87.4	39.7	23.8	23.8
87.5°	19.9	15.9	19.9	19.9	15.9	15.9	11.9	4.0	0.0	0.0	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)