

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: P842010

Luminaire Tested: **ARCH4-260-722-U-T2R**

Issue Date: 5/27/2024

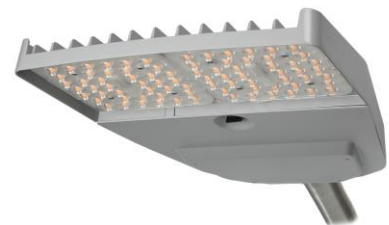
Test Information

Test Method: LM-79-08
Report Number: P842010
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: ARCH4-260-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33186 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

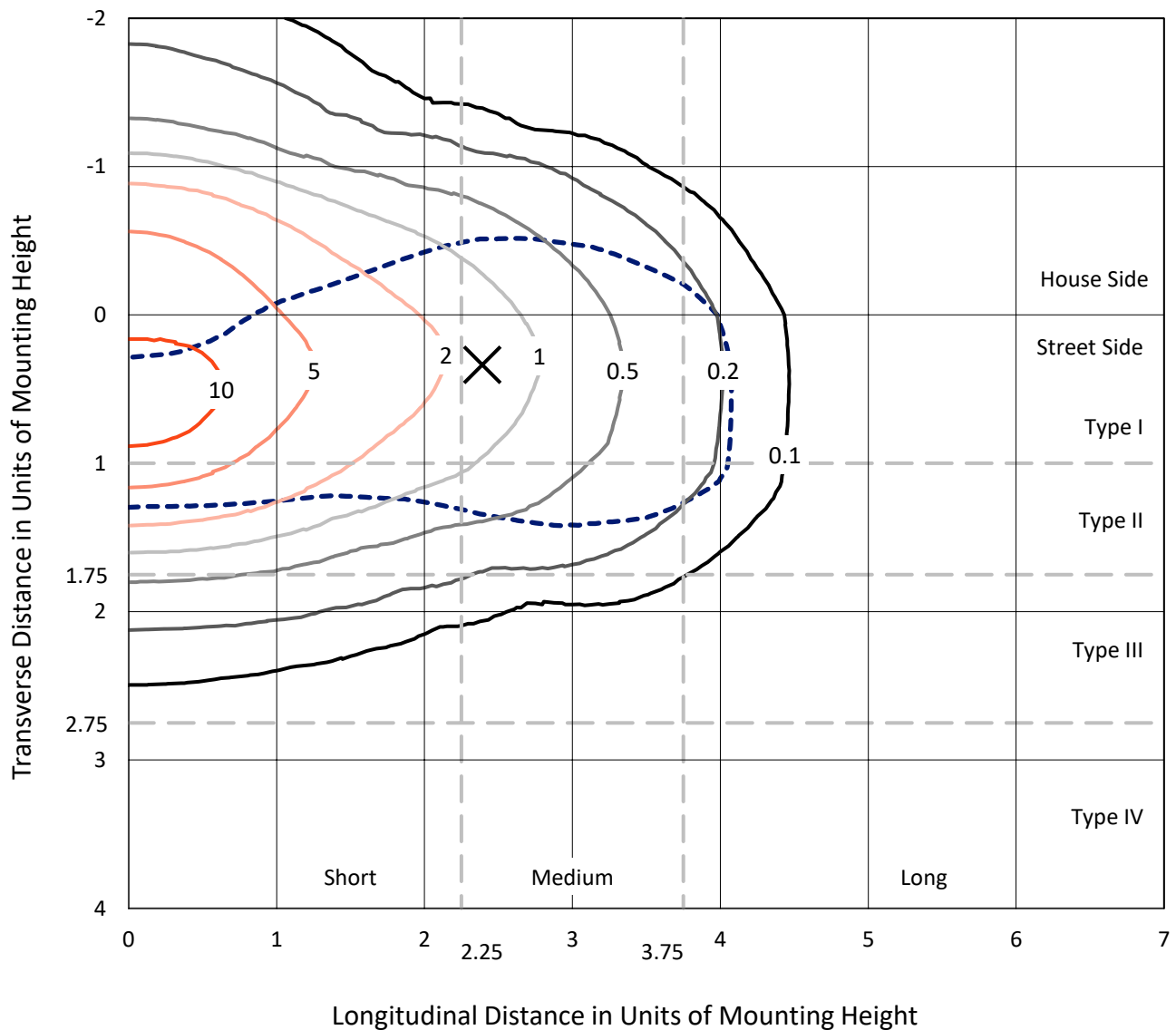
Input Watts (W): 259.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842010
 CATALOG NUMBER: ARCH4-260-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

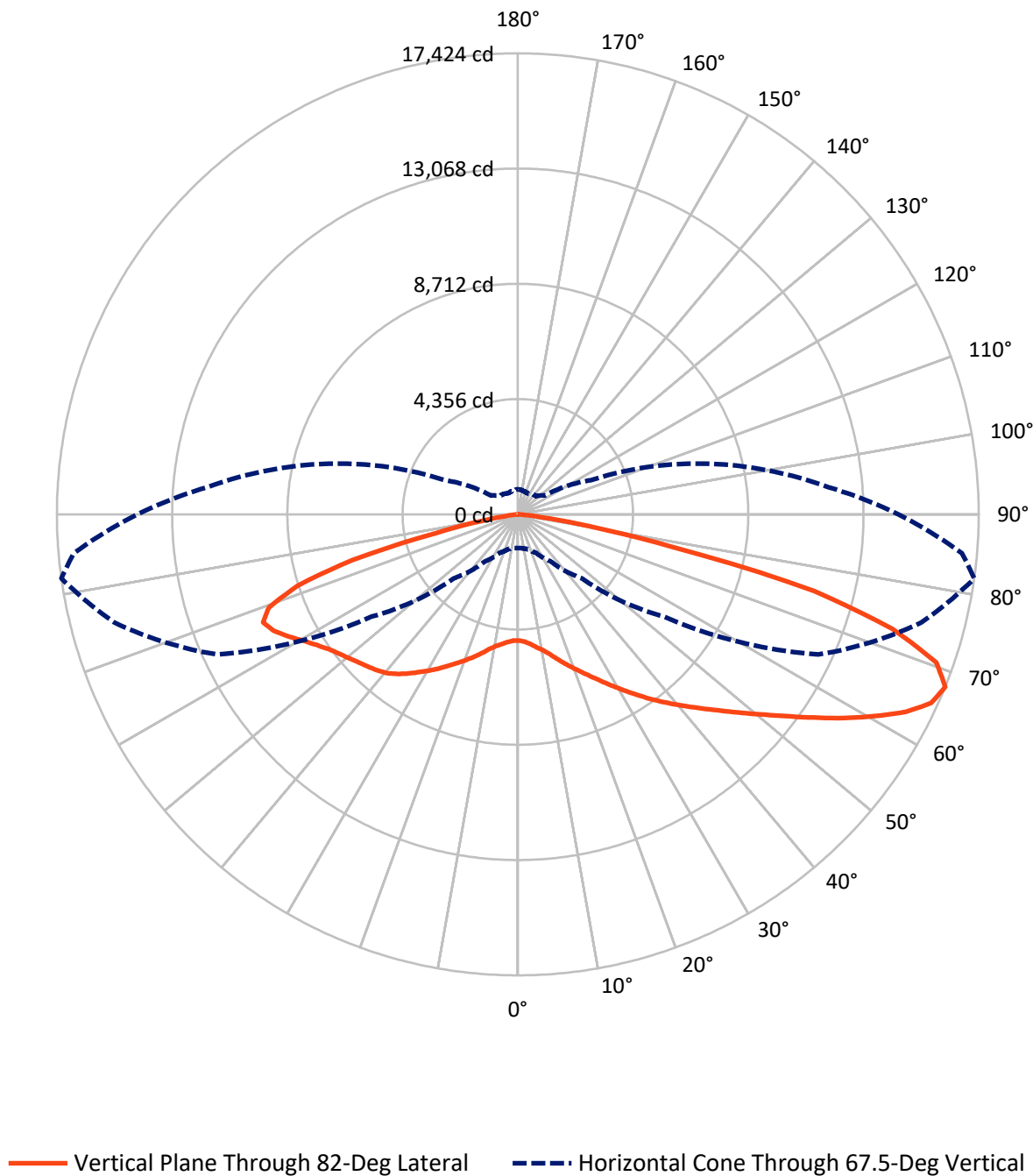
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P842010
CATALOG NUMBER: ARCH4-260-722-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P842010

CATALOG NUMBER: ARCH4-260-722-U-T2R

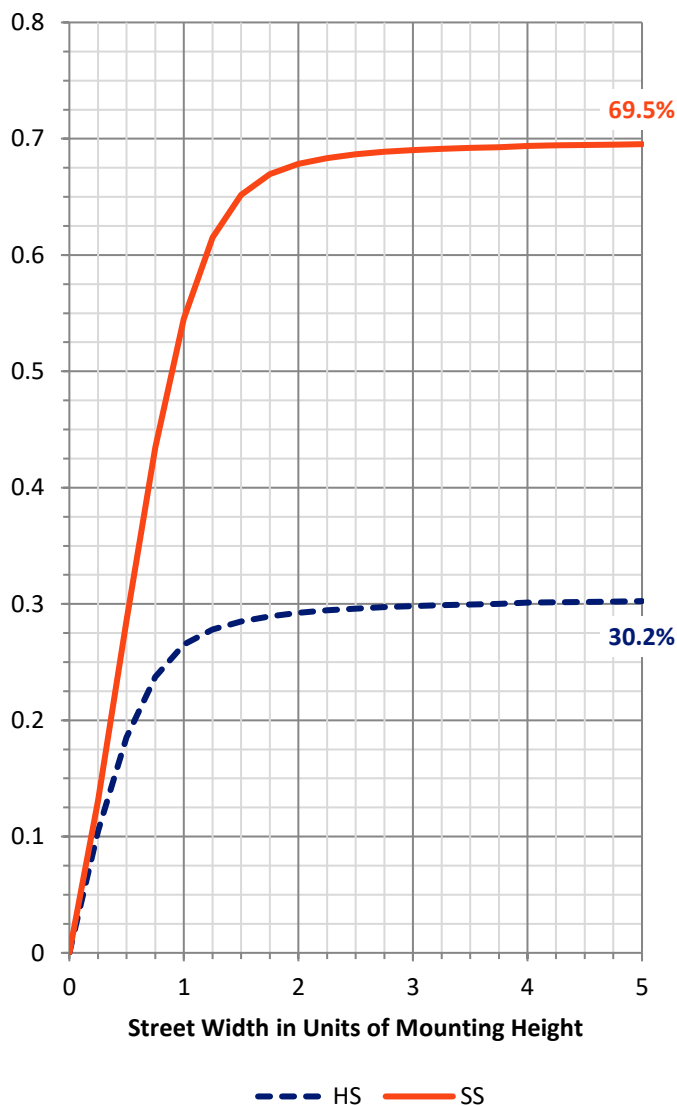
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10106.5	0.0	10106.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	23079.5	0.0	23079.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	33186.0	0.0	33186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.5
10°-20°	1775.8	5.4
20°-30°	3569.0	10.8
30°-40°	5606.4	16.9
40°-50°	6829.7	20.6
50°-60°	6453.2	19.4
60°-70°	5328.9	16.1
70°-80°	2901.8	8.7
80°-90°	228.2	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°	33186.0	100.0
0°-180°	33186.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842010

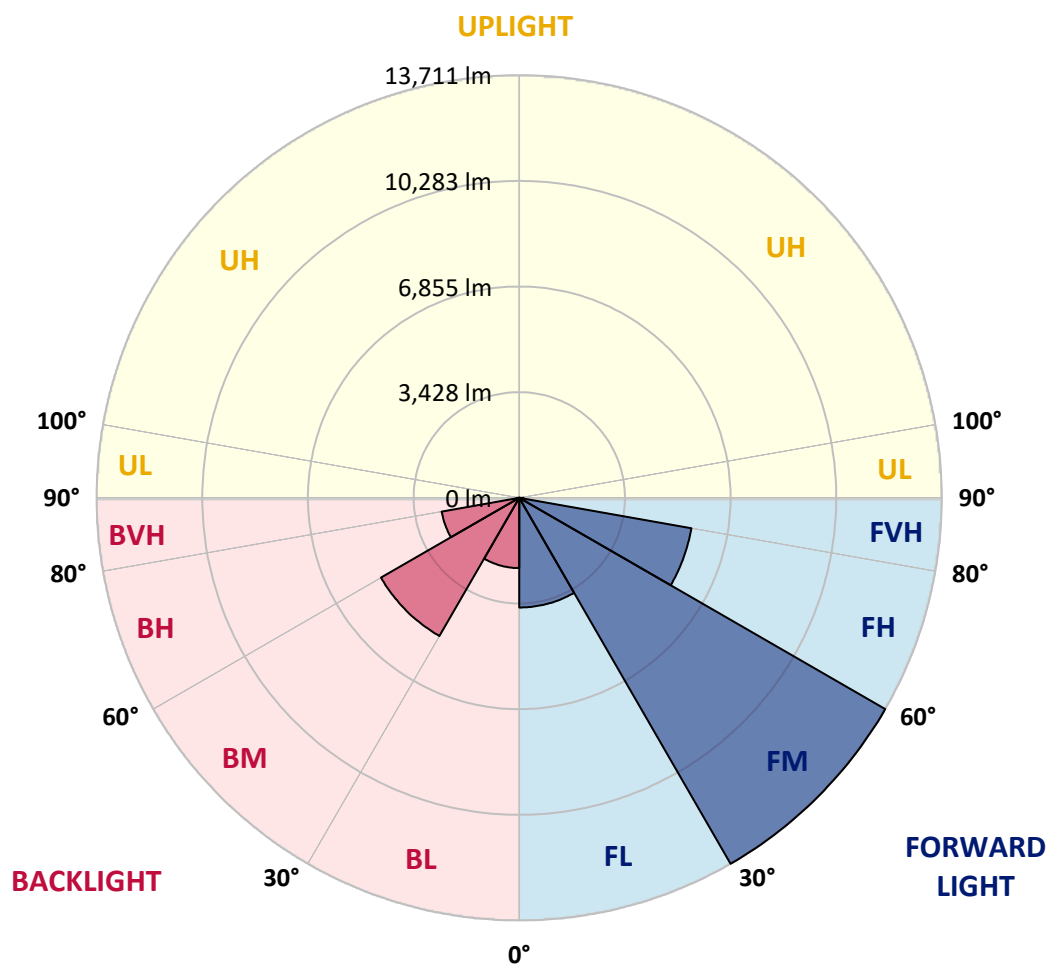
CATALOG NUMBER: ARCH4-260-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3558.8	10.7			
FM	(30°-60°)	13710.6	41.3			
FH	(60°-80°)	5672.7	17.1			G3/7500
FVH	(80°-90°)	137.5	0.4			G2/225
BL	(0°-30°)	2279.1	6.9	B3/2500		
BM	(30°-60°)	5178.8	15.6	B4/8500		
BH	(60°-80°)	2558.0	7.7	B4/5000		G4/5000
BVH	(80°-90°)	90.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P842010

CATALOG NUMBER: ARCH4-260-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5
2.5°	4987.3	4987.3	5025.9	5025.9	4992.1	4939.1	4924.7	4866.8	4813.8	4813.8	4818.7
5°	5464.4	5459.5	5488.5	5449.9	5368.0	5262.0	5189.7	5064.4	4958.4	4924.7	4919.8
7.5°	6047.4	6042.6	6057.1	5994.4	5840.2	5666.7	5522.2	5319.8	5146.3	5074.0	5054.8
10°	6697.9	6693.1	6678.7	6572.6	6365.4	6095.6	5878.8	5599.3	5339.1	5223.4	5199.3
12.5°	7444.8	7435.2	7401.5	7247.3	6963.0	6616.0	6302.8	5941.4	5594.5	5435.4	5382.4
15°	8278.5	8264.0	8201.4	8013.4	7632.8	7194.3	6789.5	6326.9	5902.9	5695.7	5623.4
17.5°	9155.4	9155.4	9059.1	8779.6	8355.6	7811.0	7309.9	6722.0	6225.7	5970.3	5883.6
20°	10046.9	10042.1	9921.6	9584.3	9083.2	8456.7	7820.7	7175.0	6558.2	6249.8	6143.8
22.5°	10986.5	10976.9	10827.5	10442.0	9844.5	9136.2	8394.1	7623.1	6924.4	6553.4	6418.5
25°	12065.9	12051.5	11868.4	11396.1	10687.8	9887.9	9039.8	8148.3	7343.6	6890.7	6731.7
27.5°	13212.8	13193.5	12976.6	12427.3	11651.5	10687.8	9753.0	8755.5	7806.2	7266.5	7088.2
30°	14234.3	14219.9	13983.7	13420.0	12528.5	11482.9	10432.4	9362.7	8292.9	7666.5	7444.8
32.5°	15005.3	15005.3	14793.3	14239.1	13313.9	12244.2	11116.6	9936.1	8798.9	8095.3	7835.1
35°	15472.7	15487.2	15304.1	14860.7	13988.6	12962.2	11825.0	10610.7	9338.6	8553.1	8273.6
37.5°	15540.2	15588.4	15482.3	15183.6	14456.0	13559.7	12518.9	11261.2	9897.5	9015.7	8702.5
40°	15227.0	15260.7	15265.5	15149.9	14648.7	13988.6	13130.8	11950.3	10490.2	9502.4	9141.0
42.5°	14600.5	14624.6	14668.0	14701.7	14509.0	14176.5	13598.2	12591.2	11121.5	9998.7	9574.7
45°	13791.0	13786.2	13858.5	14003.0	13993.4	14070.5	13858.5	13174.2	11776.8	10562.5	10056.5
47.5°	12581.5	12557.4	12812.8	13140.5	13304.3	13665.7	13863.3	13632.0	12490.0	11184.1	10605.9
50°	10687.8	10663.7	11222.7	11993.6	12475.5	13024.8	13598.2	13906.6	13236.9	11882.8	11203.4
52.5°	8384.5	8360.4	9068.7	10417.9	11468.4	12268.3	13063.4	13969.3	13945.2	12663.4	11878.0
55°	6235.3	6216.1	6905.1	8365.2	10066.2	11391.3	12408.0	13805.5	14610.2	13559.7	12697.2
57.5°	4394.6	4385.0	4982.5	6192.0	8264.0	10321.6	11776.8	13487.4	15222.1	14533.1	13622.3
60°	3083.9	3069.5	3503.2	4438.0	6249.8	8707.3	11150.4	13063.4	15679.9	15492.0	14605.3
62.5°	2076.8	2067.2	2375.6	3156.2	4438.0	6702.8	10201.1	12779.1	15940.1	16455.7	15598.0
65°	1575.7	1570.9	1710.6	2139.5	3141.8	4813.8	8692.9	12745.3	15973.8	17178.5	16441.3
67.5°	1272.1	1276.9	1354.0	1599.8	2173.2	3421.2	6741.3	12533.3	15795.6	17424.3	16850.8
70°	1040.8	1040.8	1074.6	1238.4	1604.6	2308.1	4707.8	11569.6	15299.2	16783.4	16364.2
72.5°	795.1	799.9	905.9	1002.3	1209.5	1619.1	3016.5	9574.7	14128.3	14798.1	14480.1
75°	631.2	626.4	689.1	824.0	939.6	1156.5	1850.4	6866.6	12022.5	11564.8	11362.4
77.5°	453.0	448.1	496.3	612.0	713.2	819.2	1103.5	3464.6	6538.9	6008.9	5859.5
80°	308.4	298.8	342.1	424.0	472.2	481.9	539.7	1329.9	2852.6	2688.8	2655.1
82.5°	159.0	159.0	183.1	240.9	245.8	250.6	240.9	428.9	944.5	881.8	843.3
85°	62.6	62.6	67.5	81.9	81.9	86.7	86.7	110.8	101.2	96.4	91.6
87.5°	4.8	4.8	9.6	9.6	14.5	14.5	14.5	19.3	24.1	24.1	24.1
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: P842010

CATALOG NUMBER: ARCH4-260-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5	4770.5
2.5°	4809.0	4789.7	4727.1	4712.6	4703.0	4688.6	4693.4	4659.6	4645.2	4650.0	4630.7
5°	4895.8	4862.0	4784.9	4751.2	4741.6	4727.1	4741.6	4717.5	4693.4	4703.0	4693.4
7.5°	5016.2	4968.0	4871.7	4837.9	4833.1	4818.7	4837.9	4818.7	4799.4	4809.0	4789.7
10°	5141.5	5078.9	4972.9	4939.1	4939.1	4934.3	4953.6	4924.7	4905.4	4910.2	4900.6
12.5°	5324.6	5242.7	5127.1	5098.1	5083.7	5098.1	5103.0	5064.4	5030.7	5035.5	5021.0
15°	5546.3	5454.7	5329.4	5286.1	5276.4	5271.6	5252.3	5204.1	5160.8	5156.0	5141.5
17.5°	5787.2	5671.6	5522.2	5478.8	5435.4	5421.0	5372.8	5310.2	5242.7	5242.7	5223.4
20°	6018.5	5888.4	5710.1	5647.5	5584.8	5527.0	5445.1	5343.9	5257.2	5242.7	5223.4
22.5°	6269.1	6114.9	5907.7	5816.1	5705.3	5589.6	5449.9	5315.0	5204.1	5180.1	5165.6
25°	6548.6	6355.8	6110.1	5975.1	5796.8	5618.6	5411.4	5237.9	5107.8	5069.2	5059.6
27.5°	6856.9	6625.7	6326.9	6129.3	5869.1	5589.6	5324.6	5117.4	4958.4	4910.2	4895.8
30°	7170.2	6895.5	6524.5	6235.3	5869.1	5498.1	5165.6	4924.7	4741.6	4674.1	4664.5
32.5°	7483.4	7175.0	6702.8	6293.2	5811.3	5343.9	4958.4	4674.1	4466.9	4385.0	4404.3
35°	7859.2	7483.4	6866.6	6317.3	5714.9	5156.0	4722.3	4389.8	4177.8	4105.5	4120.0
37.5°	8249.5	7791.8	6996.7	6298.0	5580.0	4943.9	4457.3	4134.4	3869.4	3744.1	3758.6
40°	8586.8	8071.3	7088.2	6230.5	5406.5	4703.0	4197.1	3773.0	3406.8	3286.3	3271.9
42.5°	8904.9	8278.5	7136.4	6129.3	5209.0	4423.5	3826.0	3281.5	2915.3	2765.9	2770.7
45°	9237.4	8480.8	7117.2	5994.4	4963.2	4095.9	3349.0	2799.6	2476.8	2341.9	2346.7
47.5°	9618.0	8697.7	7097.9	5849.8	4664.5	3671.8	2891.2	2375.6	2096.1	1999.7	1990.1
50°	10022.8	8938.6	7073.8	5671.6	4332.0	3199.6	2438.2	1980.5	1744.4	1681.7	1667.3
52.5°	10480.6	9198.8	7059.3	5459.5	3932.0	2698.4	2033.5	1633.5	1474.5	1431.1	1426.3
55°	11029.9	9502.4	7078.6	5204.1	3450.2	2226.2	1691.3	1407.0	1301.0	1276.9	1272.1
57.5°	11699.7	9892.7	7136.4	4905.4	2944.2	1816.6	1440.8	1267.3	1199.8	1180.6	1180.6
60°	12427.3	10336.0	7242.4	4568.1	2438.2	1498.6	1276.9	1156.5	1127.6	1151.7	1151.7
62.5°	13212.8	10856.4	7430.4	4158.5	1966.0	1267.3	1146.8	1064.9	1045.6	1093.8	1098.7
65°	13940.4	11362.4	7550.8	3667.0	1561.2	1098.7	1045.6	973.4	983.0	1031.2	1026.4
67.5°	14388.5	11781.6	7382.2	3050.2	1238.4	973.4	939.6	877.0	901.1	939.6	944.5
70°	14113.8	11545.5	6548.6	2303.3	968.6	848.1	824.0	785.4	804.7	852.9	872.2
72.5°	12769.4	10340.8	5093.3	1556.4	780.6	713.2	722.8	703.5	727.6	771.0	814.4
75°	10364.9	7815.9	3416.4	997.5	616.8	607.2	621.6	607.2	616.8	660.2	684.2
77.5°	5411.4	3811.6	1701.0	621.6	457.8	472.2	496.3	501.1	530.1	539.7	549.3
80°	2525.0	1715.4	708.3	346.9	303.6	332.5	380.7	385.5	395.1	409.6	414.4
82.5°	824.0	515.6	327.7	187.9	173.5	187.9	245.8	293.9	298.8	327.7	327.7
85°	86.7	53.0	72.3	77.1	67.5	81.9	110.8	106.0	48.2	28.9	28.9
87.5°	24.1	19.3	24.1	24.1	19.3	19.3	14.5	4.8	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)