

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: P841382

Luminaire Tested: **ARCH4-170-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27366 lumens
Efficiency: N/A
Efficacy: 161.2 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

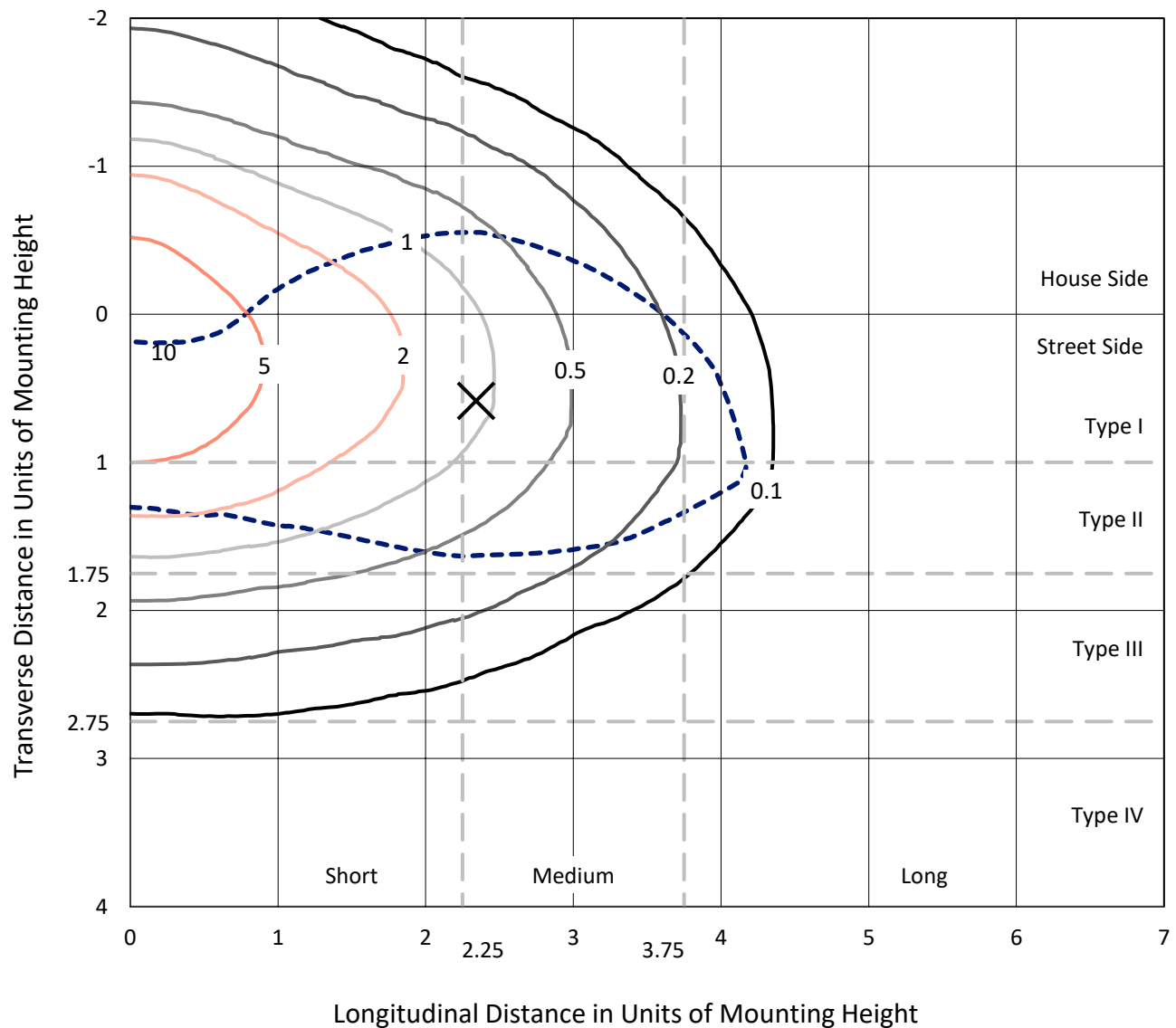
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841382
 CATALOG NUMBER: ARCH4-170-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

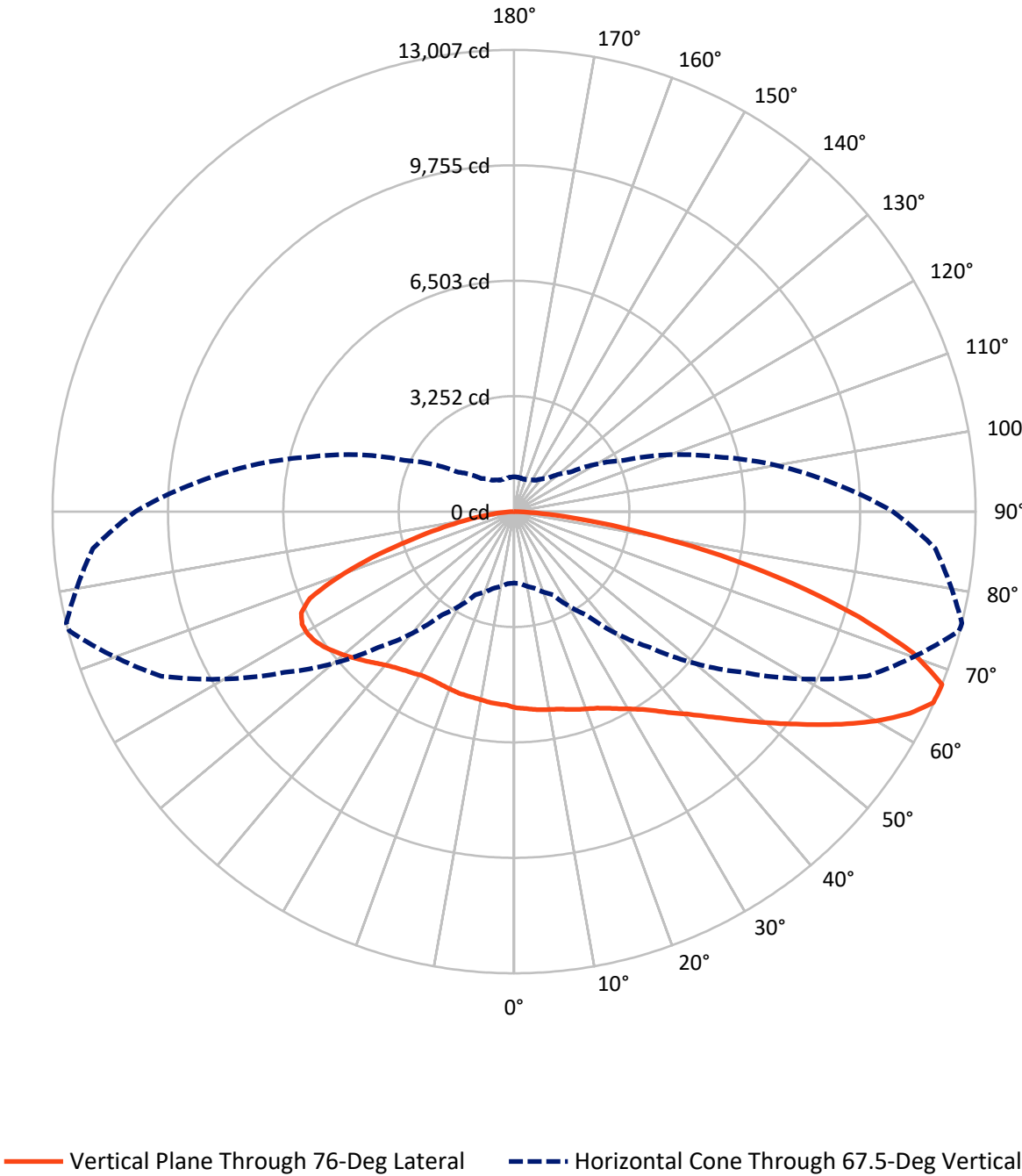
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

REPORT NUMBER: P841382
CATALOG NUMBER: ARCH4-170-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841382

CATALOG NUMBER: ARCH4-170-730-U-T2U

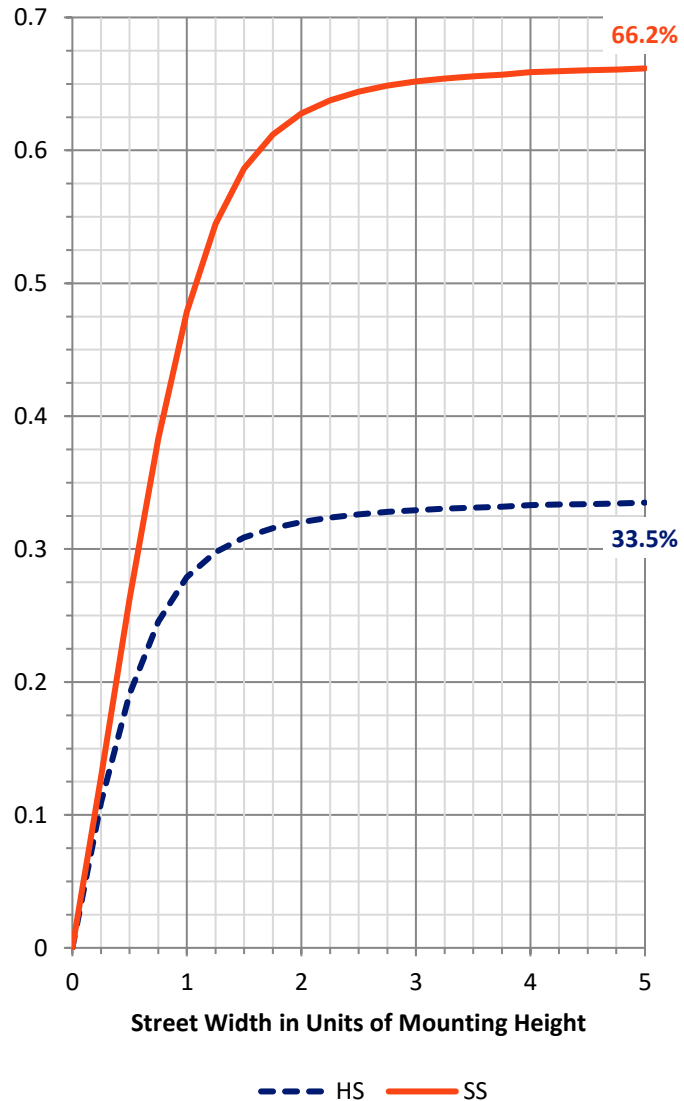
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9247.1	0.0	9247.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	18118.9	0.0	18118.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	27366.0	0.0	27366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	1.9
10°-20°	1629.6	6.0
20°-30°	2768.7	10.1
30°-40°	3939.6	14.4
40°-50°	4975.5	18.2
50°-60°	5386.9	19.7
60°-70°	5010.4	18.3
70°-80°	2691.0	9.8
80°-90°	431.2	1.6
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°	27366.0	100.0
0°-180°	27366.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841382

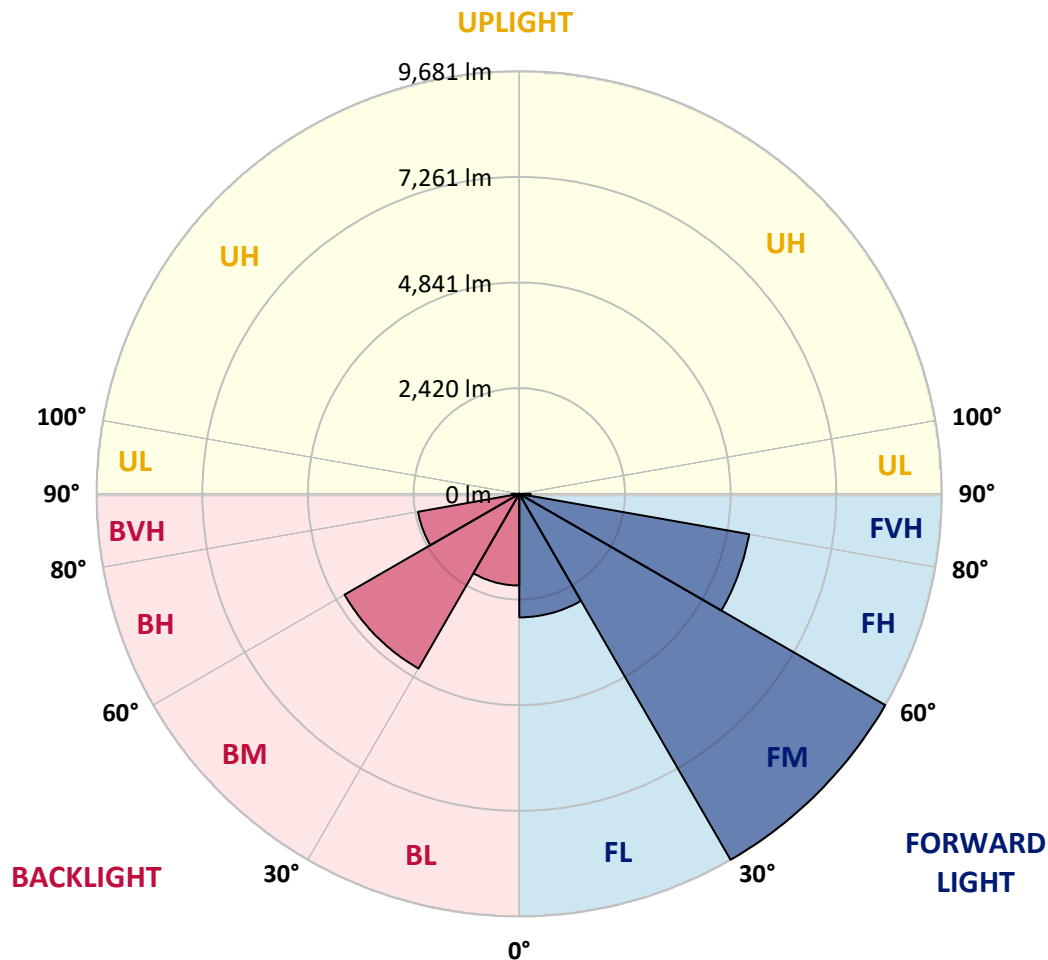
CATALOG NUMBER: ARCH4-170-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2829.9	10.3			
FM	(30°-60°)	9681.0	35.4			
FH	(60°-80°)	5347.1	19.5			G3/7500
FVH	(80°-90°)	260.8	1.0			G3/500
BL	(0°-30°)	2101.4	7.7	B3/2500		
BM	(30°-60°)	4620.9	16.9	B3/5000		
BH	(60°-80°)	2354.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	170.4	0.6			G2/225
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: P841382

CATALOG NUMBER: ARCH4-170-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9
2.5°	5695.5	5685.4	5644.7	5649.8	5649.8	5644.7	5583.8	5558.4	5558.4	5553.3	5497.4
5°	5898.8	5883.5	5837.8	5827.6	5807.3	5781.9	5685.4	5629.5	5604.1	5599.0	5522.8
7.5°	6137.6	6117.2	6061.4	6030.9	5980.1	5914.0	5792.1	5705.7	5644.7	5639.6	5533.0
10°	6376.4	6356.0	6290.0	6234.1	6163.0	6056.3	5898.8	5771.7	5675.2	5665.1	5538.0
12.5°	6660.9	6640.6	6559.3	6488.1	6381.4	6239.2	6030.9	5858.1	5726.0	5710.8	5553.3
15°	6960.6	6930.2	6848.9	6767.6	6635.5	6452.6	6203.6	5975.0	5807.3	5781.9	5599.0
17.5°	7209.6	7169.0	7102.9	7021.6	6874.3	6660.9	6376.4	6091.8	5883.5	5863.2	5644.7
20°	7423.0	7392.5	7321.4	7245.2	7087.7	6854.0	6538.9	6208.7	5954.7	5929.3	5680.3
22.5°	7626.2	7585.6	7544.9	7489.0	7316.3	7057.2	6726.9	6351.0	6046.1	6015.6	5726.0
25°	7859.9	7814.2	7799.0	7768.5	7565.3	7301.1	6955.6	6528.8	6173.1	6137.6	5807.3
27.5°	8149.5	8098.7	8068.3	8068.3	7824.4	7550.0	7199.4	6737.1	6320.5	6290.0	5908.9
30°	8454.4	8393.4	8347.7	8347.7	8073.3	7799.0	7438.2	6945.4	6488.1	6452.6	6041.0
32.5°	8723.7	8662.7	8611.9	8606.8	8322.3	8047.9	7687.2	7174.0	6691.4	6645.6	6203.6
35°	8932.0	8876.1	8830.4	8840.5	8571.2	8302.0	7966.6	7478.9	6945.4	6894.6	6417.0
37.5°	9059.0	9038.7	9013.3	9048.8	8799.9	8545.8	8256.2	7773.6	7235.0	7189.3	6681.2
40°	9125.1	9109.8	9211.4	9257.2	8993.0	8764.3	8545.8	8078.4	7550.0	7499.2	6986.1
42.5°	9221.6	9348.6	9389.3	9379.1	9135.2	8932.0	8810.0	8408.7	7920.9	7875.2	7351.9
45°	8876.1	8845.6	9069.2	9191.1	9145.4	9038.7	9059.0	8805.0	8352.8	8307.0	7773.6
47.5°	8413.7	8373.1	8500.1	8799.9	8977.7	9079.3	9282.6	9216.5	8850.7	8810.0	8266.4
50°	7438.2	7494.1	7966.6	8368.0	8718.6	9069.2	9470.5	9658.5	9399.4	9358.8	8794.8
52.5°	6356.0	6411.9	6904.8	7829.5	8403.6	8993.0	9607.7	10100.6	9993.9	9948.1	9358.8
55°	5568.5	5690.5	6249.3	6920.0	7956.5	8754.2	9689.0	10552.7	10634.0	10593.4	9973.5
57.5°	4786.1	4877.5	5299.2	5893.7	7346.8	8337.5	9683.9	10974.5	11304.7	11264.1	10598.5
60°	3866.5	3983.3	4318.6	4958.8	6533.9	7839.6	9541.7	11304.7	11950.0	11919.5	11203.1
62.5°	3236.4	3272.0	3510.8	4064.6	5487.2	7209.6	9221.6	11482.5	12534.2	12513.9	11746.7
65°	2606.4	2611.5	2830.0	3292.3	4476.2	6427.2	8677.9	11416.5	12976.3	12986.4	12137.9
67.5°	2012.0	2037.4	2235.5	2586.1	3556.5	5411.0	7900.6	10969.4	12981.4	13006.8	11914.4
70°	1392.1	1412.5	1712.2	2052.6	2748.7	4313.6	6848.9	9785.6	11914.4	11934.7	10679.8
72.5°	980.6	990.7	1310.8	1641.1	2149.2	3251.7	5167.1	8093.7	10156.4	10171.7	8982.8
75°	731.6	741.8	924.7	1244.8	1646.2	2250.8	3531.1	6198.5	8114.0	8114.0	7092.7
77.5°	518.2	523.3	599.5	858.6	1097.4	1519.1	2123.8	4059.5	5954.7	5964.8	5167.1
80°	350.6	355.7	391.2	579.2	685.9	823.1	1153.3	2128.8	3754.7	3769.9	3282.2
82.5°	182.9	193.1	218.5	294.7	345.5	457.3	594.4	1082.2	2078.0	2118.7	1971.3
85°	71.1	71.1	81.3	96.5	127.0	177.8	274.4	411.5	939.9	970.4	868.8
87.5°	25.4	25.4	30.5	30.5	35.6	40.6	45.7	61.0	106.7	106.7	101.6
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: P841382

CATALOG NUMBER: ARCH4-170-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9	5527.9
2.5°	5477.1	5477.1	5451.7	5461.8	5456.7	5446.6	5436.4	5451.7	5436.4	5400.9	5395.8
5°	5487.2	5477.1	5436.4	5431.3	5416.1	5395.8	5370.4	5380.5	5355.1	5324.6	5319.6
7.5°	5492.3	5472.0	5416.1	5395.8	5365.3	5324.6	5284.0	5284.0	5248.4	5217.9	5212.9
10°	5482.1	5456.7	5380.5	5339.9	5284.0	5223.0	5167.1	5151.9	5111.2	5075.7	5075.7
12.5°	5487.2	5451.7	5355.1	5289.1	5212.9	5136.7	5065.5	5045.2	5009.6	4974.1	4969.0
15°	5517.7	5466.9	5345.0	5258.6	5146.8	5060.4	4984.2	4969.0	4938.5	4913.1	4913.1
17.5°	5548.2	5482.1	5329.7	5207.8	5070.6	4974.1	4902.9	4902.9	4882.6	4867.4	4867.4
20°	5563.4	5487.2	5299.2	5136.7	4979.1	4877.5	4811.5	4821.6	4816.6	4811.5	4811.5
22.5°	5599.0	5497.4	5273.8	5070.6	4882.6	4775.9	4714.9	4730.2	4725.1	4725.1	4730.2
25°	5654.9	5522.8	5253.5	5009.6	4791.2	4674.3	4608.3	4618.4	4618.4	4618.4	4618.4
27.5°	5731.1	5573.6	5248.4	4953.7	4699.7	4567.6	4486.3	4486.3	4466.0	4471.1	4476.2
30°	5848.0	5670.1	5258.6	4902.9	4603.2	4435.5	4339.0	4323.7	4318.6	4328.8	4333.9
32.5°	5990.2	5802.2	5319.6	4867.4	4501.6	4288.2	4166.2	4161.1	4145.9	4145.9	4145.9
35°	6168.0	5929.3	5375.4	4862.3	4399.9	4130.7	3998.6	3983.3	3947.8	3932.5	3932.5
37.5°	6396.7	6127.4	5441.5	4826.7	4313.6	3978.2	3820.7	3769.9	3729.3	3724.2	3724.2
40°	6676.1	6351.0	5538.0	4786.1	4222.1	3820.7	3612.4	3526.1	3531.1	3551.5	3551.5
42.5°	7006.4	6625.3	5660.0	4765.8	4090.0	3658.2	3368.5	3266.9	3302.5	3322.8	3327.9
45°	7392.5	6950.5	5797.2	4740.4	3968.1	3475.2	3109.4	2982.4	2997.7	3002.7	3007.8
47.5°	7839.6	7311.2	5939.4	4720.0	3830.9	3246.6	2824.9	2657.2	2652.2	2621.7	2631.8
50°	8307.0	7692.3	6086.8	4684.5	3663.2	2977.3	2525.1	2327.0	2286.3	2240.6	2245.7
52.5°	8805.0	8083.5	6223.9	4628.6	3454.9	2703.0	2240.6	2027.2	1945.9	1895.1	1905.3
55°	9353.7	8484.9	6356.0	4542.2	3236.4	2428.6	1986.6	1768.1	1666.5	1625.8	1630.9
57.5°	9856.7	8871.0	6452.6	4435.5	2997.7	2179.6	1763.0	1549.6	1483.6	1478.5	1483.6
60°	10344.4	9196.2	6493.2	4288.2	2753.8	1951.0	1554.7	1392.1	1346.4	1371.8	1376.9
62.5°	10756.0	9404.5	6472.9	4090.0	2504.8	1732.5	1387.0	1270.2	1239.7	1290.5	1295.6
65°	10994.8	9470.5	6330.6	3805.5	2235.5	1519.1	1229.5	1102.5	1087.3	1117.8	1133.0
67.5°	10679.8	9059.0	5944.5	3414.3	1935.8	1321.0	1077.1	975.5	950.1	975.5	975.5
70°	9465.5	7849.8	5030.0	2794.4	1605.5	1127.9	934.9	863.7	843.4	863.7	858.6
72.5°	7885.3	6528.8	3963.0	2179.6	1265.1	950.1	812.9	746.9	726.5	706.2	696.1
75°	6117.2	4958.8	2875.7	1600.4	955.2	762.1	680.8	619.9	569.0	589.4	579.2
77.5°	4481.2	3480.3	2037.4	1107.6	685.9	589.4	533.5	487.8	452.2	492.8	487.8
80°	2885.9	2250.8	1361.6	741.8	472.5	411.5	391.2	365.8	401.4	523.3	533.5
82.5°	1763.0	1427.7	812.9	482.7	309.9	274.4	254.0	254.0	411.5	452.2	457.3
85°	787.5	757.0	442.0	249.0	172.7	157.5	142.3	182.9	167.7	121.9	127.0
87.5°	127.0	132.1	96.5	86.4	66.0	66.0	50.8	35.6	25.4	15.2	15.2
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)