

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: P841868

Luminaire Tested: **ARCH4-240-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841868
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: ARCH4-240-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31376 lumens
Efficiency: N/A
Efficacy: 130.6 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): 240.2
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

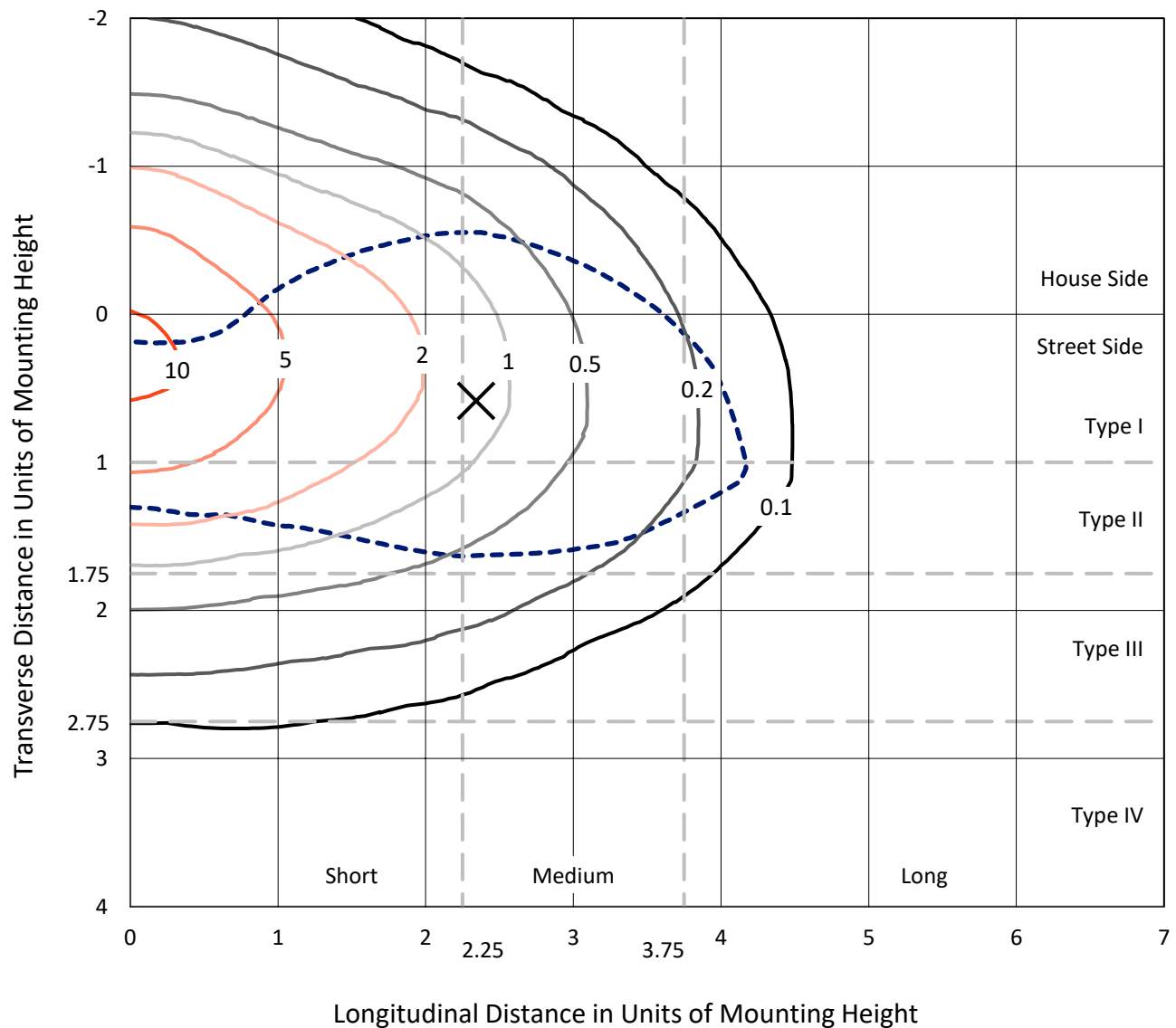


REPORT NUMBER: P841868

CATALOG NUMBER: ARCH4-240-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

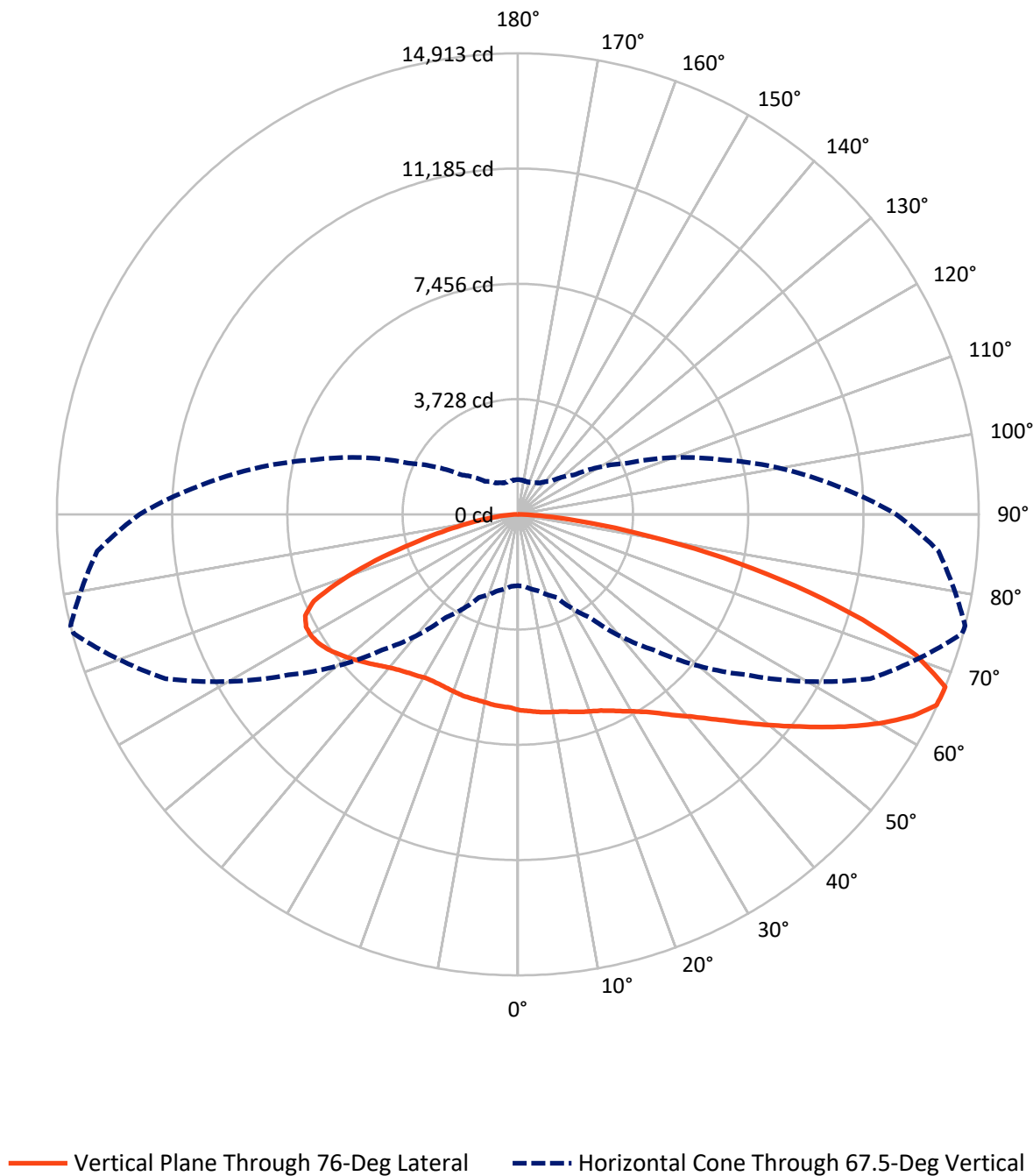
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

REPORT NUMBER: P841868
CATALOG NUMBER: ARCH4-240-722-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841868

CATALOG NUMBER: ARCH4-240-722-U-T2U

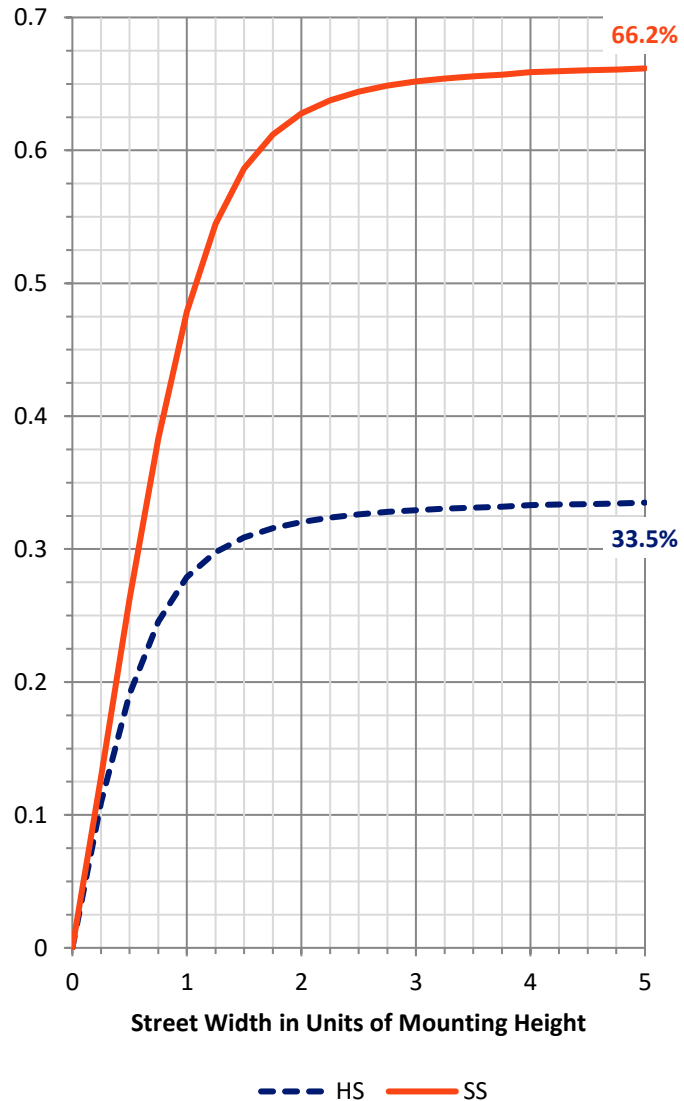
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10602.1	0.0	10602.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20773.9	0.0	20773.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	31376.0	0.0	31376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.1	1.9
10°-20°	1868.4	6.0
20°-30°	3174.5	10.1
30°-40°	4516.8	14.4
40°-50°	5704.6	18.2
50°-60°	6176.3	19.7
60°-70°	5744.6	18.3
70°-80°	3085.4	9.8
80°-90°	494.4	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°	31376.0	100.0
0°-180°	31376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841868

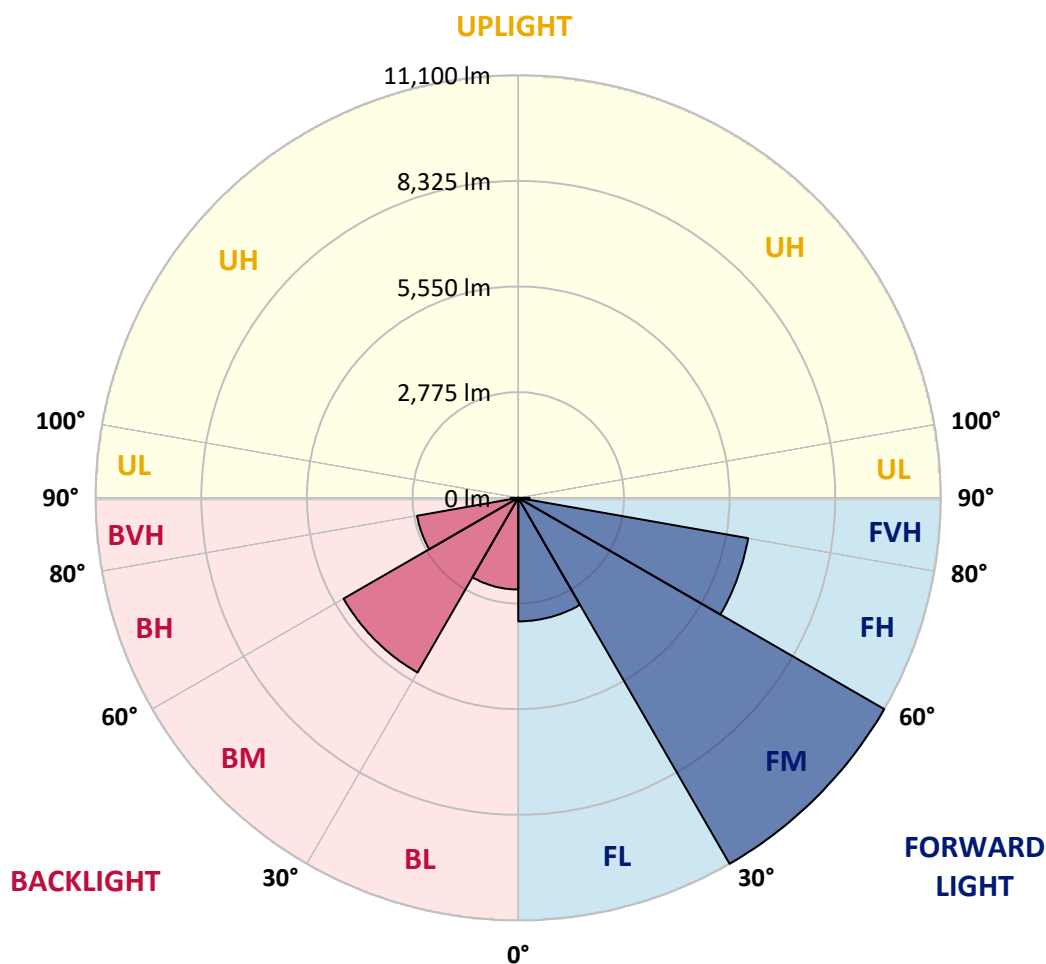
CATALOG NUMBER: ARCH4-240-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3244.6	10.3			
FM	(30°-60°)	11099.6	35.4			
FH	(60°-80°)	6130.6	19.5			G3/7500
FVH	(80°-90°)	299.1	1.0			G3/500
BL	(0°-30°)	2409.4	7.7	B3/2500		
BM	(30°-60°)	5298.0	16.9	B4/8500		
BH	(60°-80°)	2699.4	8.6	B4/5000		G4/5000
BVH	(80°-90°)	195.3	0.6			G2/225
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: P841868

CATALOG NUMBER: ARCH4-240-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9
2.5°	6530.1	6518.5	6471.9	6477.7	6477.7	6471.9	6402.0	6372.8	6372.8	6367.0	6302.9
5°	6763.1	6745.7	6693.2	6681.6	6658.3	6629.1	6518.5	6454.4	6425.3	6419.4	6332.1
7.5°	7036.9	7013.6	6949.5	6914.6	6856.3	6780.6	6640.8	6541.8	6471.9	6466.0	6343.7
10°	7310.7	7287.4	7211.7	7147.6	7066.0	6943.7	6763.1	6617.5	6506.8	6495.2	6349.5
12.5°	7636.9	7613.6	7520.4	7438.9	7316.5	7153.4	6914.6	6716.5	6565.1	6547.6	6367.0
15°	7980.6	7945.7	7852.5	7759.2	7607.8	7398.1	7112.6	6850.5	6658.3	6629.1	6419.4
17.5°	8266.0	8219.4	8143.7	8050.5	7881.6	7636.9	7310.7	6984.5	6745.7	6722.3	6471.9
20°	8510.7	8475.8	8394.2	8306.8	8126.2	7858.3	7497.1	7118.5	6827.2	6798.1	6512.6
22.5°	8743.7	8697.1	8650.5	8586.4	8388.4	8091.3	7712.6	7281.6	6932.1	6897.1	6565.1
25°	9011.7	8959.2	8941.8	8906.8	8673.8	8370.9	7974.8	7485.5	7077.7	7036.9	6658.3
27.5°	9343.7	9285.5	9250.5	9250.5	8970.9	8656.3	8254.4	7724.3	7246.6	7211.7	6774.8
30°	9693.2	9623.3	9570.9	9570.9	9256.3	8941.8	8528.2	7963.1	7438.9	7398.1	6926.2
32.5°	10002.0	9932.1	9873.8	9868.0	9541.8	9227.2	8813.6	8225.3	7671.9	7619.4	7112.6
35°	10240.8	10176.7	10124.3	10136.0	9827.2	9518.5	9134.0	8574.8	7963.1	7904.9	7357.3
37.5°	10386.4	10363.1	10334.0	10374.8	10089.4	9798.1	9466.0	8912.6	8295.2	8242.7	7660.2
40°	10462.2	10444.7	10561.2	10613.6	10310.7	10048.6	9798.1	9262.2	8656.3	8598.1	8009.7
42.5°	10572.8	10718.5	10765.1	10753.4	10473.8	10240.8	10101.0	9640.8	9081.6	9029.2	8429.2
45°	10176.7	10141.8	10398.1	10537.9	10485.5	10363.1	10386.4	10095.2	9576.7	9524.3	8912.6
47.5°	9646.6	9600.0	9745.7	10089.4	10293.2	10409.7	10642.7	10567.0	10147.6	10101.0	9477.7
50°	8528.2	8592.3	9134.0	9594.2	9996.1	10398.1	10858.3	11073.8	10776.7	10730.1	10083.5
52.5°	7287.4	7351.5	7916.5	8976.7	9635.0	10310.7	11015.6	11580.6	11458.3	11405.9	10730.1
55°	6384.5	6524.3	7165.1	7934.0	9122.4	10036.9	11108.8	12099.1	12192.3	12145.7	11435.0
57.5°	5487.4	5592.2	6075.7	6757.3	8423.3	9559.3	11102.9	12582.6	12961.2	12914.6	12151.5
60°	4433.0	4567.0	4951.5	5685.5	7491.3	8988.4	10939.8	12961.2	13701.0	13666.1	12844.7
62.5°	3710.7	3751.5	4025.3	4660.2	6291.3	8266.0	10572.8	13165.1	14370.9	14347.6	13468.0
65°	2988.4	2994.2	3244.7	3774.8	5132.1	7369.0	9949.5	13089.4	14877.7	14889.4	13916.5
67.5°	2306.8	2335.9	2563.1	2965.1	4077.7	6203.9	9058.3	12576.7	14883.5	14912.7	13660.2
70°	1596.1	1619.4	1963.1	2353.4	3151.5	4945.6	7852.5	11219.5	13660.2	13683.5	12244.7
72.5°	1124.3	1135.9	1502.9	1881.6	2464.1	3728.2	5924.3	9279.6	11644.7	11662.2	10299.1
75°	838.8	850.5	1060.2	1427.2	1887.4	2580.6	4048.6	7106.8	9302.9	9302.9	8132.1
77.5°	594.2	600.0	687.4	984.5	1258.3	1741.8	2435.0	4654.4	6827.2	6838.9	5924.3
80°	401.9	407.8	448.5	664.1	786.4	943.7	1322.3	2440.8	4304.9	4322.3	3763.1
82.5°	209.7	221.4	250.5	337.9	396.1	524.3	681.6	1240.8	2382.5	2429.1	2260.2
85°	81.6	81.6	93.2	110.7	145.6	203.9	314.6	471.8	1077.7	1112.6	996.1
87.5°	29.1	29.1	35.0	35.0	40.8	46.6	52.4	69.9	122.3	122.3	116.5
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: P841868

CATALOG NUMBER: ARCH4-240-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9	6337.9
2.5°	6279.6	6279.6	6250.5	6262.2	6256.3	6244.7	6233.0	6250.5	6233.0	6192.3	6186.4
5°	6291.3	6279.6	6233.0	6227.2	6209.7	6186.4	6157.3	6169.0	6139.8	6104.9	6099.0
7.5°	6297.1	6273.8	6209.7	6186.4	6151.5	6104.9	6058.3	6058.3	6017.5	5982.5	5976.7
10°	6285.5	6256.3	6169.0	6122.3	6058.3	5988.4	5924.3	5906.8	5860.2	5819.4	5819.4
12.5°	6291.3	6250.5	6139.8	6064.1	5976.7	5889.3	5807.8	5784.5	5743.7	5702.9	5697.1
15°	6326.2	6268.0	6128.2	6029.1	5901.0	5802.0	5714.6	5697.1	5662.2	5633.0	5633.0
17.5°	6361.2	6285.5	6110.7	5970.9	5813.6	5702.9	5621.4	5621.4	5598.1	5580.6	5580.6
20°	6378.7	6291.3	6075.7	5889.3	5708.8	5592.2	5516.5	5528.2	5522.3	5516.5	5516.5
22.5°	6419.4	6302.9	6046.6	5813.6	5598.1	5475.7	5405.8	5423.3	5417.5	5417.5	5423.3
25°	6483.5	6332.1	6023.3	5743.7	5493.2	5359.2	5283.5	5295.2	5295.2	5295.2	5295.2
27.5°	6570.9	6390.3	6017.5	5679.6	5388.4	5236.9	5143.7	5143.7	5120.4	5126.2	5132.1
30°	6704.9	6501.0	6029.1	5621.4	5277.7	5085.5	4974.8	4957.3	4951.5	4963.1	4968.9
32.5°	6868.0	6652.4	6099.0	5580.6	5161.2	4916.5	4776.7	4770.9	4753.4	4753.4	4753.4
35°	7071.9	6798.1	6163.1	5574.8	5044.7	4735.9	4584.5	4567.0	4526.2	4508.8	4508.8
37.5°	7334.0	7025.3	6238.9	5534.0	4945.6	4561.2	4380.6	4322.3	4275.7	4269.9	4269.9
40°	7654.4	7281.6	6349.5	5487.4	4840.8	4380.6	4141.8	4042.7	4048.6	4071.9	4071.9
42.5°	8033.0	7596.1	6489.3	5464.1	4689.3	4194.2	3862.1	3745.6	3786.4	3809.7	3815.5
45°	8475.8	7969.0	6646.6	5435.0	4549.5	3984.5	3565.1	3419.4	3436.9	3442.7	3448.6
47.5°	8988.4	8382.5	6809.7	5411.7	4392.2	3722.3	3238.8	3046.6	3040.8	3005.8	3017.5
50°	9524.3	8819.4	6978.7	5370.9	4200.0	3413.6	2895.2	2668.0	2621.4	2568.9	2574.8
52.5°	10095.2	9268.0	7135.9	5306.8	3961.2	3099.0	2568.9	2324.3	2231.1	2172.8	2184.5
55°	10724.3	9728.2	7287.4	5207.8	3710.7	2784.5	2277.7	2027.2	1910.7	1864.1	1869.9
57.5°	11301.0	10170.9	7398.1	5085.5	3436.9	2499.0	2021.4	1776.7	1701.0	1695.2	1701.0
60°	11860.2	10543.7	7444.7	4916.5	3157.3	2236.9	1782.5	1596.1	1543.7	1572.8	1578.6
62.5°	12332.1	10782.6	7421.4	4689.3	2871.9	1986.4	1590.3	1456.3	1421.4	1479.6	1485.4
65°	12605.9	10858.3	7258.3	4363.1	2563.1	1741.8	1409.7	1264.1	1246.6	1281.6	1299.0
67.5°	12244.7	10386.4	6815.6	3914.6	2219.4	1514.6	1235.0	1118.4	1089.3	1118.4	1118.4
70°	10852.5	9000.0	5767.0	3203.9	1840.8	1293.2	1071.8	990.3	967.0	990.3	984.5
72.5°	9040.8	7485.5	4543.7	2499.0	1450.5	1089.3	932.0	856.3	833.0	809.7	798.1
75°	7013.6	5685.5	3297.1	1835.0	1095.1	873.8	780.6	710.7	652.4	675.7	664.1
77.5°	5137.9	3990.3	2335.9	1269.9	786.4	675.7	611.7	559.2	518.4	565.1	559.2
80°	3308.7	2580.6	1561.2	850.5	541.7	471.8	448.5	419.4	460.2	600.0	611.7
82.5°	2021.4	1636.9	932.0	553.4	355.3	314.6	291.3	291.3	471.8	518.4	524.3
85°	902.9	868.0	506.8	285.4	198.1	180.6	163.1	209.7	192.2	139.8	145.6
87.5°	145.6	151.5	110.7	99.0	75.7	75.7	58.3	40.8	29.1	17.5	17.5
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)