

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: P842302

Luminaire Tested: **ARCH4-300-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842302
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: ARCH4-300-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36692 lumens
Efficiency: N/A
Efficacy: 122.6 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): 299.2
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

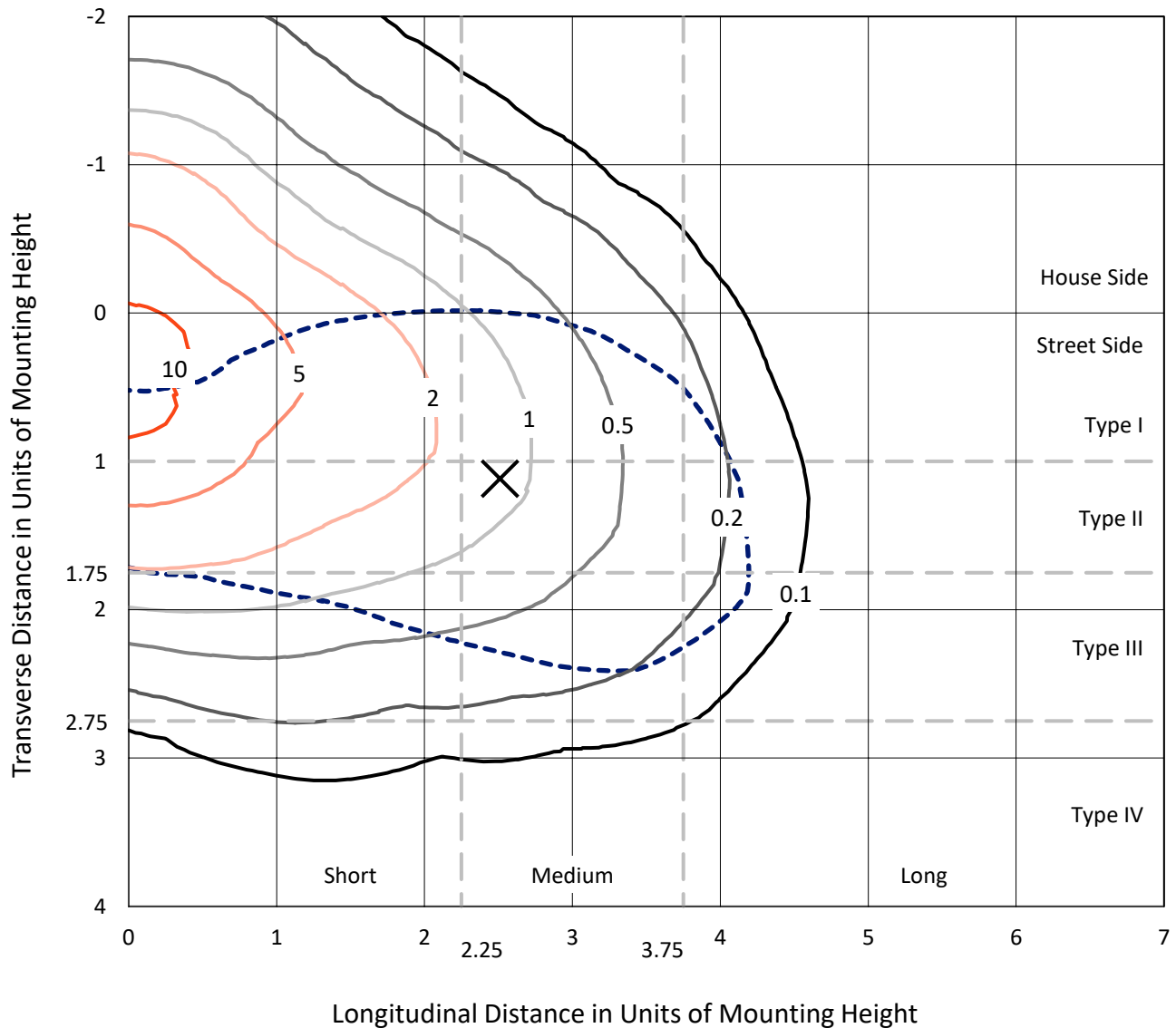


REPORT NUMBER: P842302

CATALOG NUMBER: ARCH4-300-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

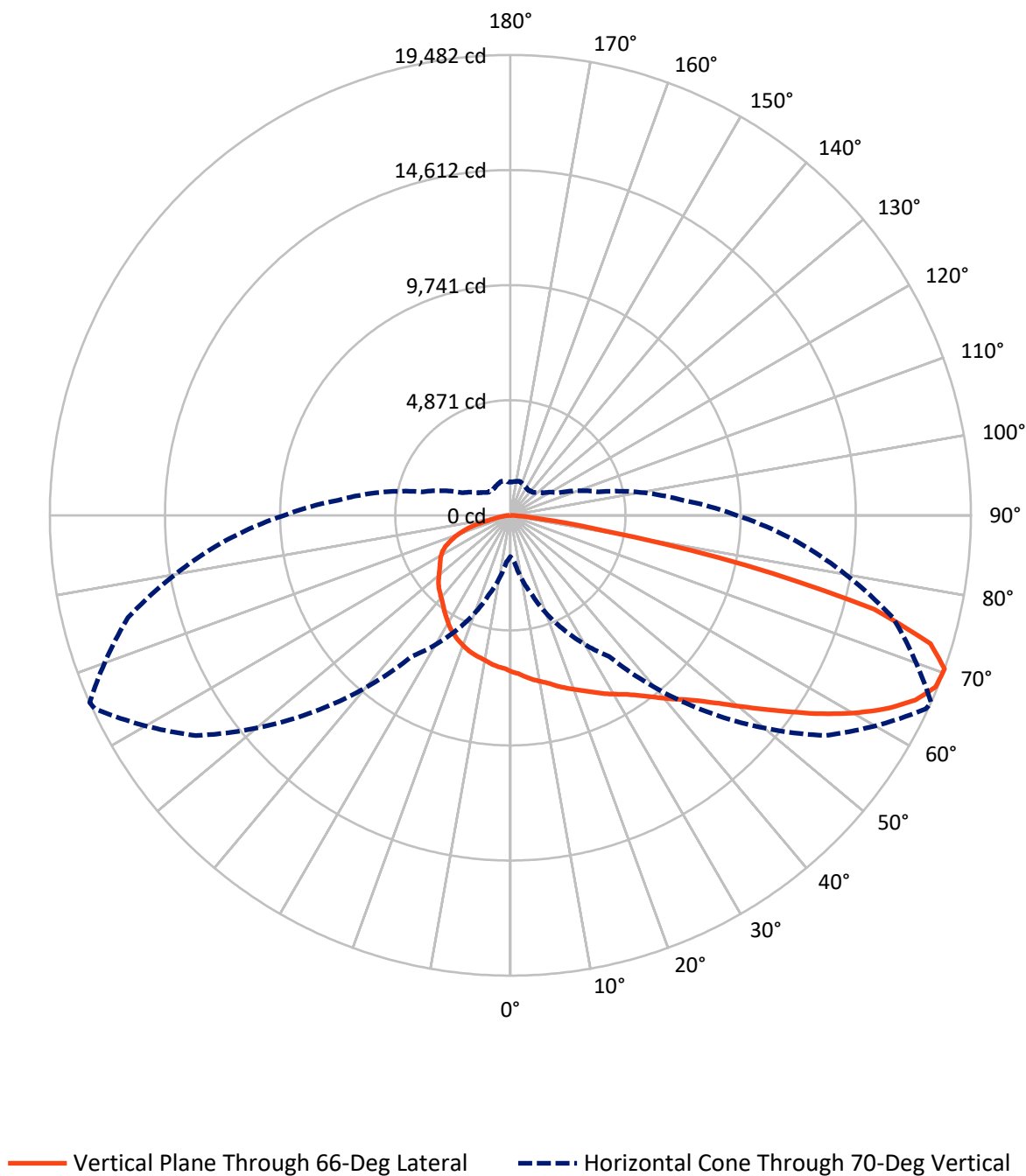
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P842302
CATALOG NUMBER: ARCH4-300-722-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P842302

CATALOG NUMBER: ARCH4-300-722-U-T3

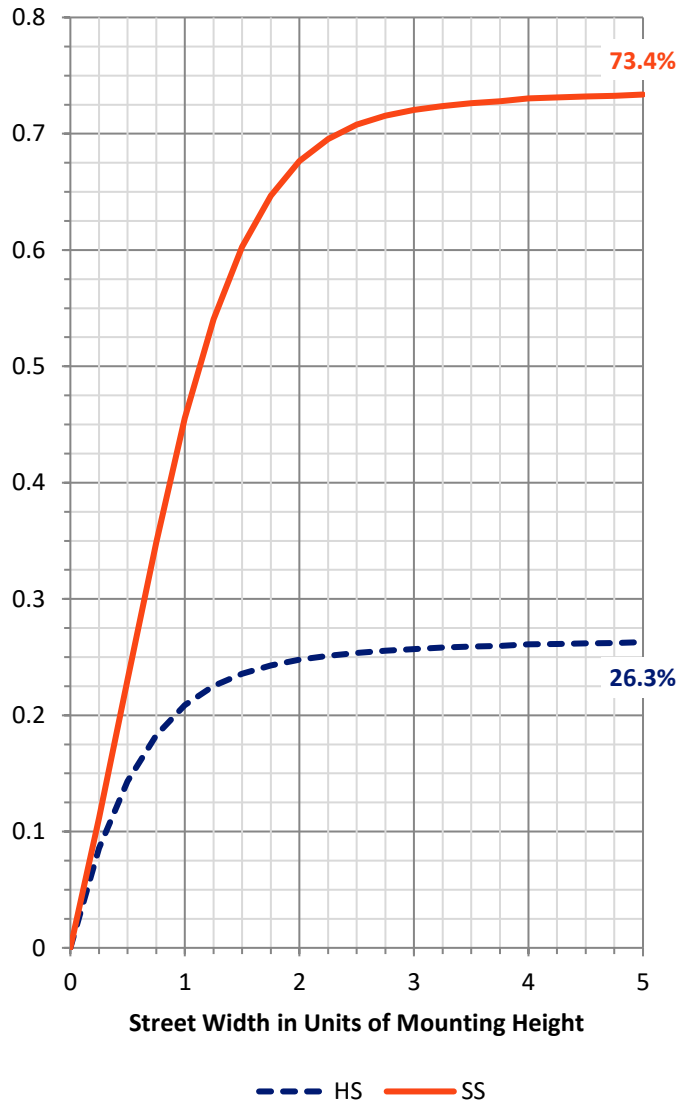
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9722.5	0.0	9722.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	26969.5	0.0	26969.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	36692.0	0.0	36692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.3	1.7
10°-20°	1908.7	5.2
20°-30°	3199.6	8.7
30°-40°	4790.9	13.1
40°-50°	6405.4	17.5
50°-60°	7478.5	20.4
60°-70°	7436.2	20.3
70°-80°	4402.4	12.0
80°-90°	433.9	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°	36692.0	100.0
0°-180°	36692.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842302

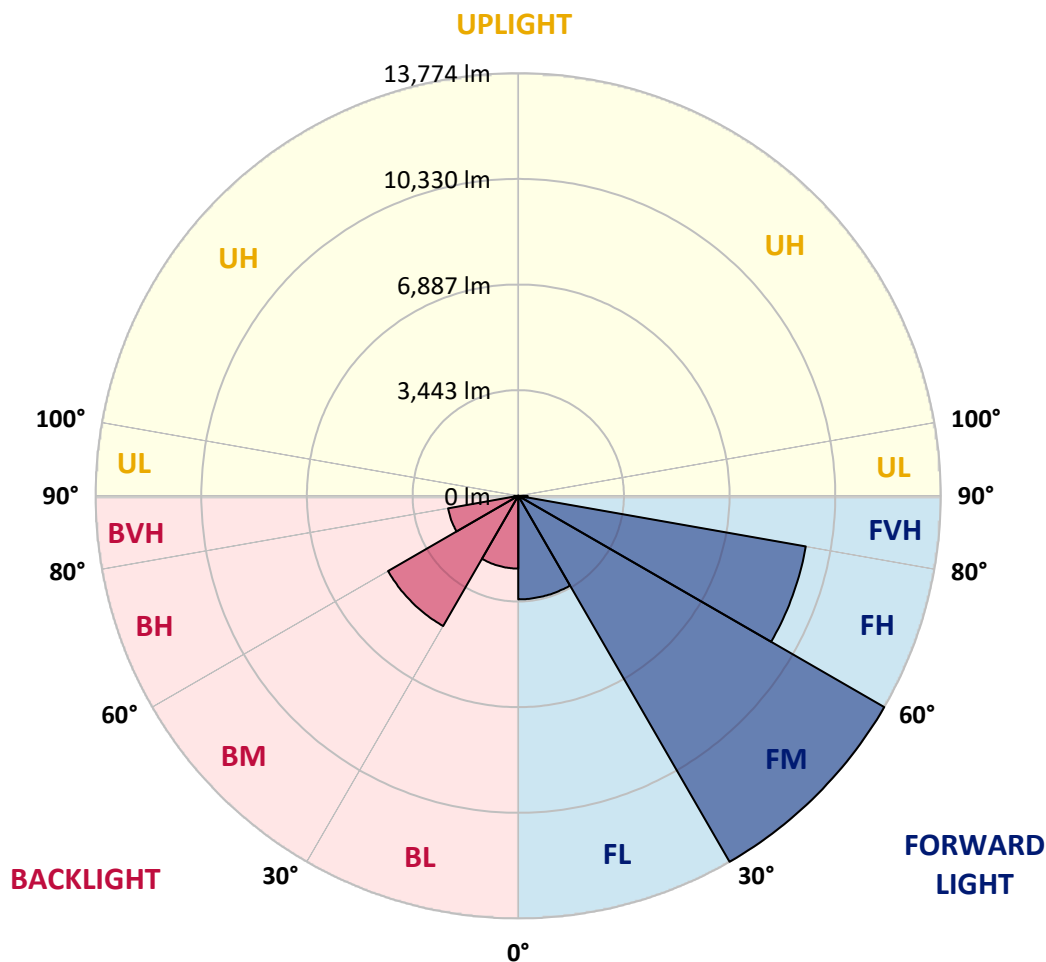
CATALOG NUMBER: ARCH4-300-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3374.7	9.2			
FM	(30°-60°)	13773.7	37.5			
FH	(60°-80°)	9516.1	25.9			G4/12000
FVH	(80°-90°)	304.9	0.8			G3/500
BL	(0°-30°)	2369.9	6.5	B3/2500		
BM	(30°-60°)	4901.2	13.4	B3/5000		
BH	(60°-80°)	2322.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	129.0	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: P842302

CATALOG NUMBER: ARCH4-300-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1
2.5°	6865.5	6854.7	6849.3	6827.7	6779.0	6800.6	6751.9	6719.5	6714.0	6638.3	6595.0
5°	7146.9	7141.4	7130.6	7098.2	7022.4	7033.2	6952.1	6892.6	6876.3	6757.3	6665.4
7.5°	7384.9	7374.1	7368.7	7325.4	7244.2	7238.8	7141.4	7054.9	7027.8	6865.5	6724.9
10°	7568.9	7552.6	7563.4	7520.2	7433.6	7417.4	7292.9	7179.3	7152.3	6946.7	6751.9
12.5°	7725.7	7714.9	7731.2	7693.3	7623.0	7606.7	7482.3	7336.2	7303.8	7065.7	6811.4
15°	7898.9	7861.0	7893.5	7877.2	7828.5	7823.1	7709.5	7547.2	7503.9	7217.2	6903.4
17.5°	7990.8	7969.2	8007.1	8012.5	7990.8	8028.7	7920.5	7725.7	7687.9	7357.9	6984.6
20°	8055.8	8023.3	8066.6	8099.1	8115.3	8191.0	8104.5	7915.1	7871.8	7493.1	7060.3
22.5°	8277.6	8207.3	8212.7	8234.3	8245.1	8353.3	8299.2	8115.3	8072.0	7660.8	7152.3
25°	8834.8	8694.2	8602.2	8537.3	8461.5	8553.5	8521.0	8342.5	8304.6	7861.0	7265.9
27.5°	9700.5	9521.9	9338.0	9148.6	8851.1	8813.2	8759.1	8596.8	8553.5	8061.2	7379.5
30°	10685.1	10506.6	10290.2	9987.2	9430.0	9137.8	9013.4	8834.8	8786.1	8239.7	7487.7
32.5°	11664.4	11507.5	11291.1	10923.2	10127.9	9532.8	9267.7	9083.7	9035.0	8434.5	7617.5
35°	12427.2	12329.8	12189.2	11729.3	10820.4	9998.0	9635.5	9413.7	9359.6	8742.9	7855.6
37.5°	13044.0	12973.6	12854.6	12373.1	11323.5	10463.3	10057.5	9803.3	9743.7	9078.3	8109.9
40°	13952.9	13768.9	13671.5	12973.6	11761.7	10885.3	10533.6	10268.5	10203.6	9435.4	8315.5
42.5°	14726.5	14591.3	14472.3	13509.2	12178.3	11247.8	10982.7	10739.2	10652.7	9787.0	8537.3
45°	14856.4	14910.5	14851.0	13774.3	12838.4	11604.9	11437.1	11280.2	11199.1	10263.1	8872.7
47.5°	14861.8	14861.8	14510.1	13925.8	13655.3	12005.2	11924.1	11978.2	11891.6	10869.1	9273.1
50°	14472.3	14542.6	14358.6	13963.7	13871.7	12405.6	12519.2	12811.3	12724.8	11512.9	9705.9
52.5°	13666.1	13898.8	13893.4	13904.2	13557.9	12746.4	13146.8	13812.2	13666.1	12237.8	10165.7
55°	12243.3	12708.5	13125.1	13482.2	13287.4	12952.0	13915.0	14878.0	14726.5	13049.4	10631.0
57.5°	11026.0	11323.5	11842.9	12854.6	12968.2	13130.5	14634.6	15992.5	15857.3	13947.5	11117.9
60°	9635.5	10046.7	10566.1	12005.2	12578.7	13363.2	15424.4	17080.0	16950.1	14856.4	11588.6
62.5°	7498.5	8028.7	9067.5	10701.4	12010.6	13509.2	16046.6	18037.6	17978.1	15716.6	12010.6
65°	5226.2	5696.9	7152.3	9099.9	11107.1	13444.3	16544.4	18892.4	18838.3	16419.9	12308.2
67.5°	3051.3	3597.8	5242.5	7325.4	9511.1	12995.3	16706.7	19395.5	19395.5	16847.3	12389.3
70°	1742.1	1996.4	3457.1	5339.9	7292.9	11756.3	16252.2	19390.1	19482.1	16749.9	12053.9
72.5°	1217.3	1330.9	2326.4	3592.4	4944.9	9511.1	15062.0	18454.2	18578.6	15830.2	10906.9
75°	946.8	1027.9	1639.3	2450.8	3116.3	6459.8	12459.7	15559.7	15889.7	13493.0	8818.6
77.5°	719.6	779.1	957.6	1531.1	1996.4	3711.4	8223.5	10203.6	10225.3	8261.4	4728.5
80°	524.8	584.3	638.4	936.0	1060.4	1736.7	3105.4	4263.2	4144.2	3998.1	2559.0
82.5°	313.8	373.3	389.5	508.6	519.4	741.2	1087.4	1374.2	1320.1	1758.3	1201.1
85°	135.3	189.4	200.2	232.6	221.8	303.0	432.8	362.5	324.6	373.3	259.7
87.5°	32.5	54.1	54.1	59.5	48.7	75.7	81.2	59.5	54.1	64.9	64.9
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: P842302

CATALOG NUMBER: ARCH4-300-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1	6622.1
2.5°	6584.2	6568.0	6573.4	6481.4	6454.4	6427.3	6411.1	6400.3	6389.4	6405.7	6421.9
5°	6632.9	6595.0	6551.7	6416.5	6362.4	6302.9	6259.6	6221.7	6205.5	6205.5	6221.7
7.5°	6670.8	6605.8	6513.9	6335.3	6237.9	6156.8	6086.5	6037.8	6010.7	6010.7	6026.9
10°	6676.2	6584.2	6438.1	6221.7	6091.9	5972.8	5891.7	5837.6	5799.7	5799.7	5810.5
12.5°	6708.6	6584.2	6394.8	6135.2	5972.8	5826.8	5729.4	5648.2	5632.0	5632.0	5642.8
15°	6762.7	6611.3	6367.8	6059.4	5864.6	5696.9	5588.7	5502.2	5469.7	5491.3	5496.8
17.5°	6811.4	6627.5	6319.1	5962.0	5729.4	5545.4	5426.4	5350.7	5307.4	5356.1	5356.1
20°	6843.9	6627.5	6248.8	5837.6	5583.3	5377.7	5264.1	5172.1	5139.7	5199.2	5204.6
22.5°	6892.6	6622.1	6173.0	5713.2	5426.4	5210.0	5096.4	5026.1	5009.8	5074.8	5096.4
25°	6946.7	6632.9	6091.9	5572.5	5253.3	5042.3	4955.7	4923.3	4934.1	5015.2	5042.3
27.5°	7006.2	6654.5	6010.7	5415.6	5063.9	4874.6	4825.9	4842.1	4885.4	4988.2	5020.7
30°	7060.3	6659.9	5897.1	5231.7	4847.5	4669.0	4690.6	4761.0	4825.9	4928.7	4966.6
32.5°	7130.6	6665.4	5778.1	5031.5	4614.9	4485.0	4582.4	4696.0	4761.0	4858.3	4901.6
35°	7303.8	6757.3	5686.1	4836.7	4398.5	4328.2	4490.5	4636.5	4674.4	4761.0	4798.8
37.5°	7503.9	6908.8	5637.4	4636.5	4187.5	4171.3	4376.8	4522.9	4533.7	4587.8	4625.7
40°	7628.4	6973.7	5583.3	4468.8	3998.1	4008.9	4219.9	4333.6	4311.9	4349.8	4376.8
42.5°	7752.8	6995.4	5469.7	4328.2	3819.6	3830.4	3992.7	4073.9	4084.7	4165.8	4203.7
45°	7963.8	7054.9	5345.3	4198.3	3657.3	3619.4	3716.8	3825.0	3965.7	4122.6	4165.8
47.5°	8245.1	7179.3	5215.4	4041.4	3500.4	3376.0	3413.8	3603.2	3749.3	3895.3	3922.4
50°	8531.9	7303.8	5096.4	3852.1	3343.5	3116.3	3132.5	3305.6	3424.6	3538.3	3554.5
52.5°	8813.2	7412.0	4993.6	3673.5	3165.0	2807.9	2872.8	3051.3	3132.5	3186.6	3202.8
55°	9094.5	7503.9	4901.6	3522.0	2959.4	2564.4	2623.9	2791.7	2872.8	2899.9	2910.7
57.5°	9386.7	7612.1	4831.3	3392.2	2726.7	2348.0	2385.9	2504.9	2580.7	2613.1	2602.3
60°	9630.1	7704.1	4793.4	3256.9	2494.1	2147.8	2137.0	2245.2	2353.4	2385.9	2375.1
62.5°	9819.5	7763.6	4733.9	3083.8	2288.5	1947.7	1893.6	2034.2	2147.8	2169.5	2185.7
65°	9922.3	7769.0	4587.8	2862.0	2077.5	1731.3	1693.4	1834.1	1904.4	1926.0	1926.0
67.5°	9906.1	7682.5	4301.1	2564.4	1882.7	1536.5	1504.0	1590.6	1693.4	1709.6	1693.4
70°	9570.6	7325.4	3841.2	2250.6	1650.1	1363.4	1303.9	1390.4	1487.8	1428.3	1401.2
72.5°	8618.4	6400.3	3165.0	1904.4	1390.4	1147.0	1119.9	1206.5	1211.9	1222.7	1195.7
75°	6800.6	4766.4	2369.7	1482.4	1125.3	963.0	957.6	941.4	963.0	1006.3	973.8
77.5°	3570.7	2380.5	1282.2	908.9	816.9	773.7	735.8	730.4	795.3	822.3	789.9
80°	1936.8	1336.3	735.8	546.4	497.7	503.1	551.8	541.0	611.4	627.6	600.5
82.5°	844.0	633.0	362.5	330.0	330.0	324.6	340.8	378.7	454.5	454.5	362.5
85°	183.9	156.9	140.7	162.3	183.9	183.9	183.9	183.9	129.8	70.3	48.7
87.5°	59.5	59.5	59.5	64.9	70.3	70.3	59.5	43.3	27.1	5.4	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)