

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: P841242

Luminaire Tested: **ARCH4-150-730-U-T4W**

Issue Date: 5/27/2024

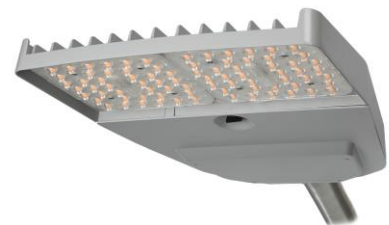
Test Information

Test Method: LM-79-08
Report Number: P841242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24109 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.8
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



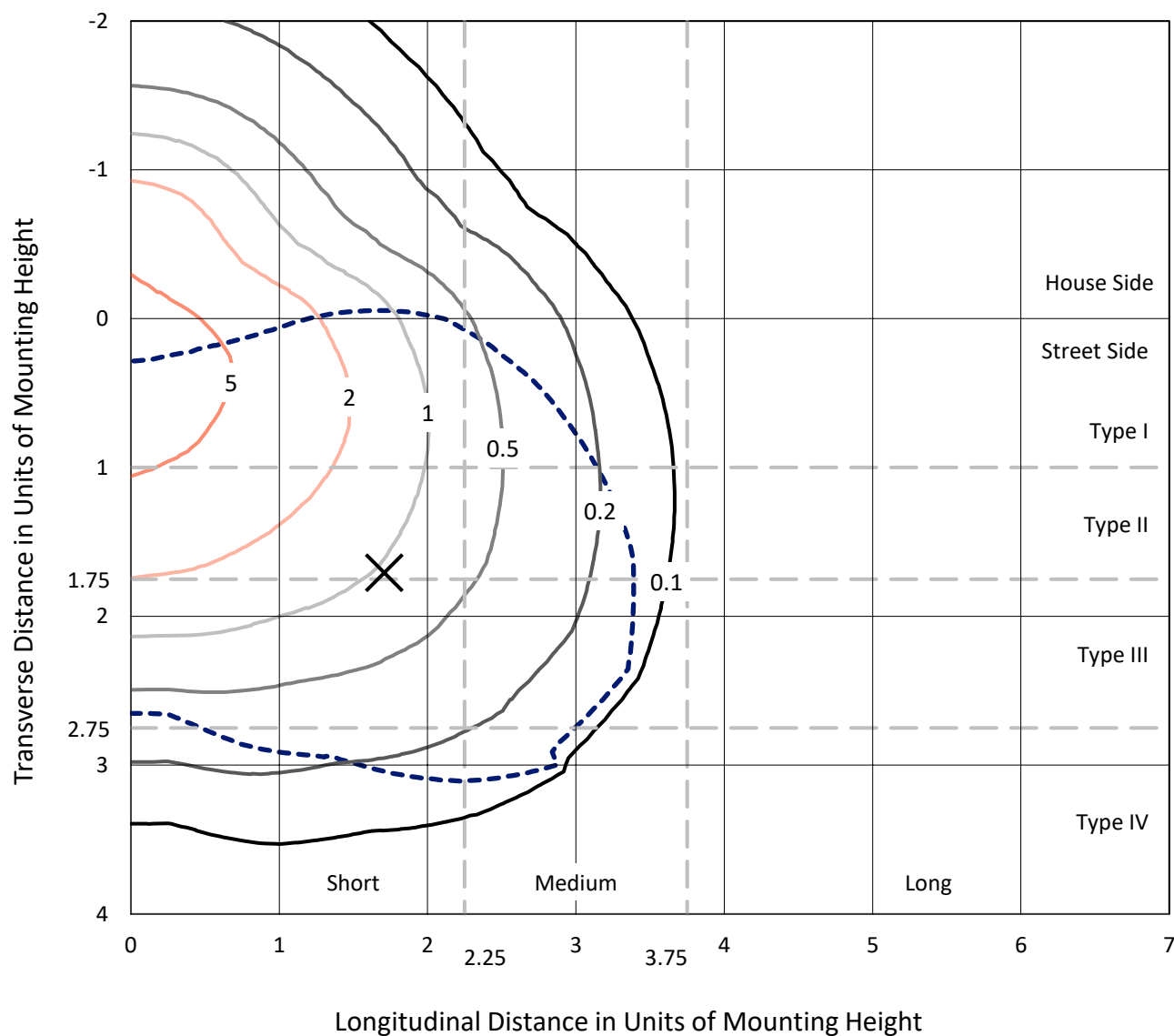
REPORT NUMBER: P841242

CATALOG NUMBER: ARCH4-150-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

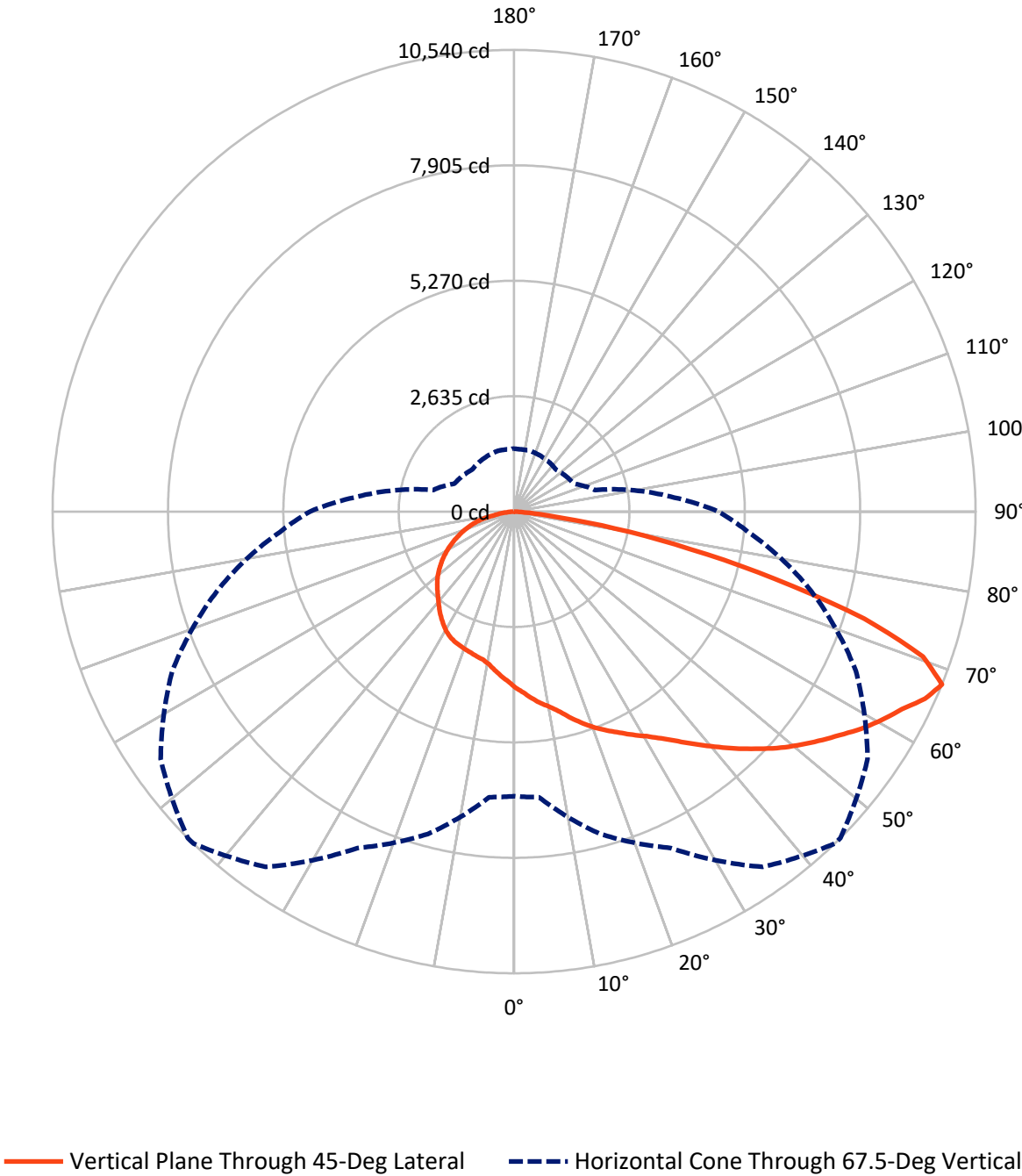


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type IV - Short - N/A

REPORT NUMBER: P841242
CATALOG NUMBER: ARCH4-150-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841242

CATALOG NUMBER: ARCH4-150-730-U-T4W

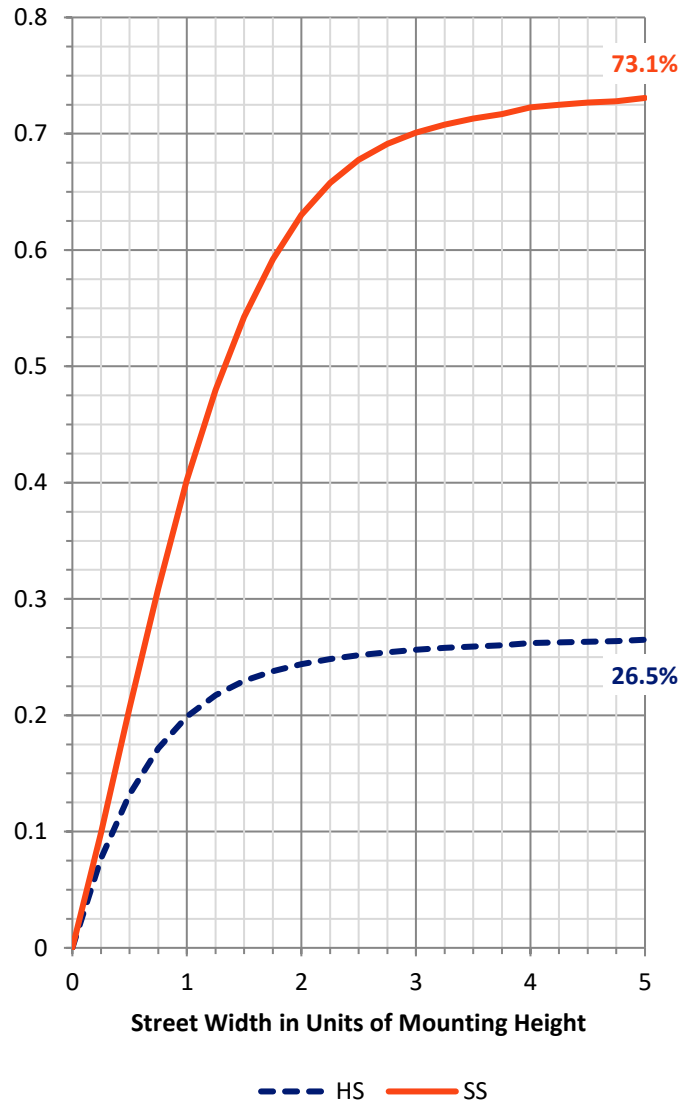
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6440.7	0.0	6440.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17668.3	0.0	17668.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	24109.0	0.0	24109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	1.6
10°-20°	1189.3	4.9
20°-30°	2052.8	8.5
30°-40°	3027.2	12.6
40°-50°	4101.2	17.0
50°-60°	5012.6	20.8
60°-70°	5169.8	21.4
70°-80°	2831.7	11.7
80°-90°	339.4	1.4
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°	24109.0	100.0
0°-180°	24109.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841242

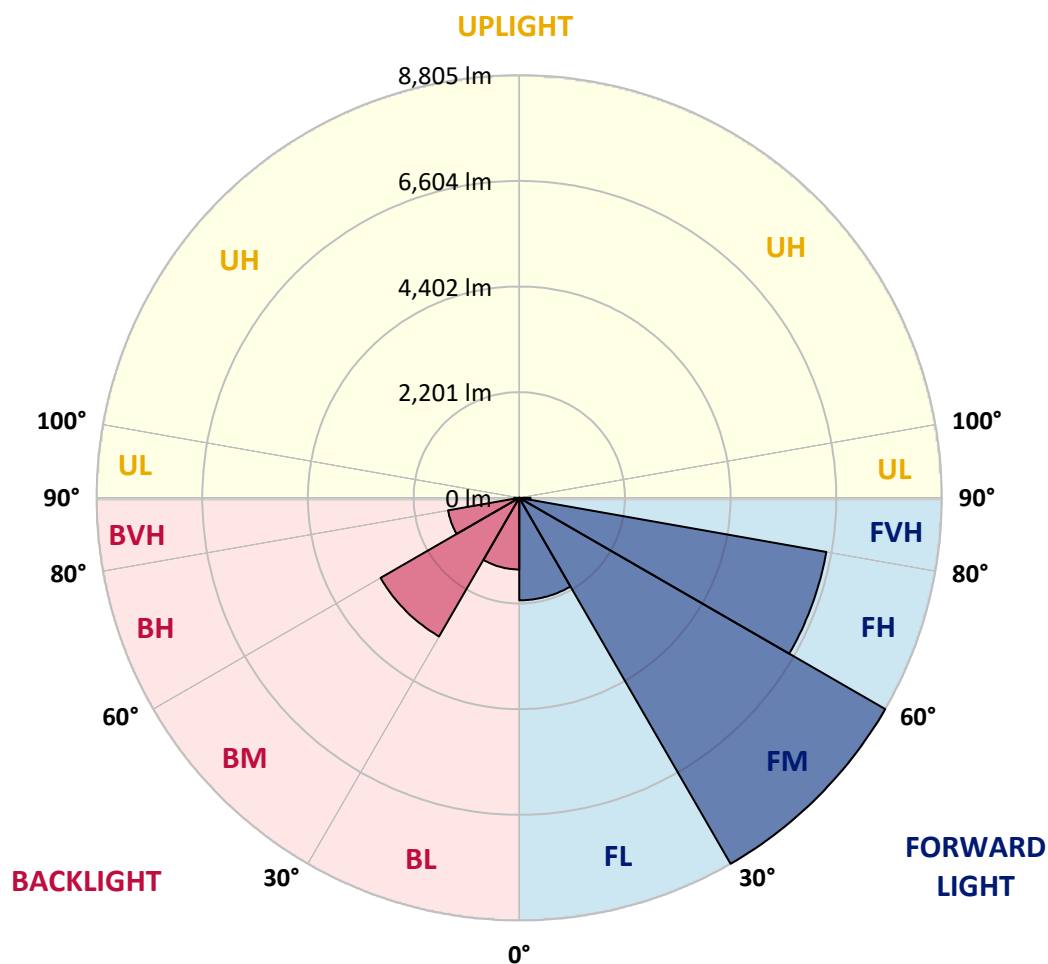
CATALOG NUMBER: ARCH4-150-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2134.3	8.9			
FM	(30°-60°)	8804.8	36.5			
FH	(60°-80°)	6495.3	26.9			G3/7500
FVH	(80°-90°)	233.8	1.0			G3/500
BL	(0°-30°)	1492.7	6.2	B3/2500		
BM	(30°-60°)	3336.2	13.8	B3/5000		
BH	(60°-80°)	1506.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	105.6	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-G3

Type IV Short



REPORT NUMBER: P841242

CATALOG NUMBER: ARCH4-150-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9
2.5°	4197.0	4193.4	4200.7	4175.0	4142.0	4138.3	4138.3	4116.3	4090.6	4039.3	3998.9
5°	4395.1	4387.8	4391.5	4354.8	4310.8	4288.7	4285.1	4237.4	4178.7	4098.0	4024.6
7.5°	4578.6	4571.2	4567.6	4527.2	4461.2	4424.5	4420.8	4351.1	4281.4	4156.7	4050.3
10°	4751.0	4743.7	4736.3	4681.3	4600.6	4545.6	4538.2	4450.2	4362.1	4208.0	4072.3
12.5°	4971.1	4956.4	4949.1	4883.1	4765.7	4707.0	4696.0	4578.6	4468.5	4281.4	4116.3
15°	5202.3	5191.2	5180.2	5117.9	4985.8	4908.8	4890.4	4743.7	4593.2	4376.8	4182.3
17.5°	5374.7	5363.7	5363.7	5308.6	5187.6	5099.5	5084.9	4908.8	4721.7	4464.8	4233.7
20°	5481.1	5470.1	5481.1	5448.1	5356.3	5283.0	5268.3	5073.8	4850.1	4545.6	4277.7
22.5°	5558.1	5547.1	5565.5	5550.8	5484.7	5440.7	5429.7	5238.9	4982.1	4629.9	4321.8
25°	5693.9	5693.9	5693.9	5668.2	5605.8	5591.1	5591.1	5426.0	5150.9	4740.0	4387.8
27.5°	5965.3	5950.7	5932.3	5859.0	5752.6	5748.9	5770.9	5616.8	5345.3	4883.1	4468.5
30°	6365.2	6357.9	6288.2	6134.1	5954.3	5936.0	5950.7	5822.3	5554.5	5033.5	4560.2
32.5°	6882.5	6856.8	6713.8	6482.6	6225.8	6141.4	6170.8	6035.1	5774.6	5187.6	4648.3
35°	7249.4	7256.7	7154.0	6944.9	6640.4	6416.6	6438.6	6273.5	6013.0	5360.0	4758.3
37.5°	7671.3	7697.0	7542.9	7385.1	7102.7	6721.1	6743.1	6519.3	6251.5	5576.5	4875.7
40°	8254.6	8203.3	7942.8	7755.7	7443.8	7040.3	7058.6	6794.5	6526.7	5781.9	5011.5
42.5°	8742.6	8650.9	8335.3	8096.9	7722.7	7377.8	7396.2	7091.6	6805.5	6009.4	5161.9
45°	9443.3	9190.2	8735.2	8617.8	8008.8	7708.0	7726.3	7407.2	7099.0	6251.5	5323.3
47.5°	9850.5	9447.0	9157.1	9094.8	8324.3	8049.2	8071.2	7741.0	7414.5	6526.7	5492.1
50°	9824.8	9564.4	9480.0	9325.9	8603.2	8368.4	8390.4	8085.9	7733.7	6798.1	5653.5
52.5°	9656.1	9703.8	9659.8	9402.9	8882.0	8676.5	8702.2	8427.1	8060.2	7051.3	5803.9
55°	9916.6	9949.6	9865.2	9527.7	9190.2	8984.7	9014.1	8786.6	8383.0	7275.1	5932.3
57.5°	10228.4	10111.0	10026.6	9747.8	9509.3	9318.6	9351.6	9153.5	8661.9	7454.9	6031.4
60°	10213.7	9967.9	10052.3	9762.5	9725.8	9626.7	9656.1	9454.3	8874.6	7586.9	6071.7
62.5°	9461.6	9329.6	9755.1	9656.1	9901.9	9901.9	9938.6	9637.7	9003.1	7642.0	6049.7
65°	8155.6	8162.9	8911.3	9322.2	10111.0	10279.8	10309.1	9751.5	8929.7	7480.5	5844.3
67.5°	6497.3	6545.0	7619.9	8474.8	9901.9	10536.6	10540.3	9854.2	8614.2	7025.6	5367.3
70°	4754.7	4791.4	6060.7	7099.0	8915.0	9967.9	9909.2	9564.4	7928.1	6233.2	4622.6
72.5°	3213.8	3246.8	4552.9	5451.7	7315.4	8489.4	8361.0	8452.7	6757.8	5121.5	3716.4
75°	2160.9	2201.2	3239.5	3899.9	5382.0	6446.0	6159.8	6401.9	5227.9	3877.8	2711.2
77.5°	1361.1	1386.8	2058.2	2557.1	3676.1	4387.8	4101.6	4105.3	3012.0	2087.5	1456.5
80°	865.8	873.2	1247.4	1474.8	2127.9	2637.8	2333.3	1896.7	1357.4	1108.0	869.5
82.5°	502.6	491.6	744.8	832.8	1012.6	1001.6	829.1	785.1	594.3	554.0	443.9
85°	201.8	187.1	326.5	304.5	308.2	326.5	242.1	242.1	194.4	150.4	110.1
87.5°	40.4	40.4	44.0	40.4	40.4	44.0	33.0	33.0	29.3	29.3	29.3
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: P841242

CATALOG NUMBER: ARCH4-150-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9	4020.9
2.5°	3991.6	3984.2	3965.9	3918.2	3892.5	3877.8	3855.8	3848.5	3844.8	3848.5	3859.5
5°	4002.6	3976.9	3925.5	3848.5	3797.1	3764.1	3727.4	3712.8	3701.7	3701.7	3712.8
7.5°	4009.9	3969.6	3881.5	3767.8	3694.4	3643.0	3599.0	3580.7	3577.0	3588.0	3591.7
10°	4013.6	3954.9	3830.2	3687.1	3591.7	3525.6	3481.6	3470.6	3481.6	3503.6	3507.3
12.5°	4039.3	3958.6	3800.8	3632.0	3518.3	3452.3	3419.3	3419.3	3448.6	3489.0	3492.6
15°	4083.3	3984.2	3786.1	3588.0	3470.6	3411.9	3400.9	3419.3	3463.3	3525.6	3533.0
17.5°	4116.3	3998.9	3753.1	3529.3	3408.2	3371.6	3389.9	3433.9	3496.3	3580.7	3588.0
20°	4138.3	3998.9	3705.4	3459.6	3345.9	3338.5	3389.9	3459.6	3525.6	3624.7	3635.7
22.5°	4160.3	3991.6	3650.4	3375.2	3276.2	3298.2	3393.6	3481.6	3547.7	3654.1	3672.4
25°	4200.7	4002.6	3595.4	3290.8	3202.8	3265.2	3389.9	3496.3	3566.0	3676.1	3705.4
27.5°	4255.7	4028.3	3555.0	3213.8	3129.4	3213.8	3364.2	3492.6	3566.0	3672.4	3705.4
30°	4314.4	4057.6	3507.3	3129.4	3045.0	3140.4	3309.2	3452.3	3536.7	3635.7	3676.1
32.5°	4376.8	4090.6	3466.9	3037.7	2942.3	3041.4	3228.5	3389.9	3481.6	3573.3	3617.4
35°	4461.2	4149.3	3444.9	2964.3	2850.6	2938.6	3125.8	3309.2	3408.2	3492.6	3544.0
37.5°	4563.9	4222.7	3433.9	2891.0	2751.5	2824.9	3015.7	3210.1	3316.5	3386.2	3433.9
40°	4681.3	4314.4	3430.3	2821.3	2652.5	2707.5	2902.0	3096.4	3199.1	3254.2	3294.5
42.5°	4813.4	4417.1	3422.9	2751.5	2553.4	2597.5	2791.9	2982.7	3070.7	3118.4	3155.1
45°	4952.8	4519.9	3408.2	2667.2	2447.0	2498.4	2678.2	2846.9	2938.6	2979.0	3019.4
47.5°	5092.2	4622.6	3378.9	2571.8	2351.7	2399.3	2557.1	2703.9	2777.2	2813.9	2854.3
50°	5227.9	4714.3	3309.2	2461.7	2252.6	2296.6	2417.7	2516.7	2571.8	2601.1	2641.5
52.5°	5349.0	4776.7	3210.1	2333.3	2153.5	2175.6	2256.3	2340.6	2384.7	2388.3	2425.0
55°	5451.7	4809.7	3067.1	2201.2	2047.1	2050.8	2094.8	2160.9	2179.2	2164.5	2190.2
57.5°	5510.4	4791.4	2909.3	2065.5	1937.1	1922.4	1955.4	1988.4	1992.1	1955.4	1981.1
60°	5525.1	4707.0	2703.9	1929.7	1827.0	1786.7	1797.7	1790.3	1783.0	1768.3	1790.3
62.5°	5451.7	4527.2	2476.4	1797.7	1709.6	1647.3	1643.6	1639.9	1650.9	1654.6	1658.3
65°	5183.9	4189.7	2204.9	1661.9	1584.9	1500.5	1496.8	1540.9	1555.5	1533.5	1540.9
67.5°	4666.6	3672.4	1907.7	1504.2	1427.1	1353.8	1383.1	1408.8	1434.5	1427.1	1434.5
70°	3932.9	3015.7	1636.3	1328.1	1254.7	1214.3	1247.4	1269.4	1273.0	1265.7	1273.0
72.5°	3092.7	2355.3	1383.1	1148.3	1082.3	1063.9	1104.3	1122.6	1155.6	1170.3	1174.0
75°	2234.3	1739.0	1133.6	953.9	898.8	898.8	935.5	968.5	997.9	979.5	968.5
77.5°	1247.4	1038.2	814.5	656.7	667.7	719.1	733.7	770.4	799.8	796.1	788.8
80°	755.8	649.4	550.3	425.6	421.9	462.3	557.6	620.0	634.7	601.7	598.0
82.5°	392.6	341.2	293.5	238.5	264.1	308.2	322.8	388.9	429.2	414.6	432.9
85°	99.1	95.4	106.4	110.1	135.7	150.4	165.1	194.4	128.4	62.4	62.4
87.5°	29.3	29.3	36.7	36.7	47.7	58.7	55.0	55.0	29.3	3.7	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)