

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: P841265

Luminaire Tested: **ARCH4-150-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841265
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: ARCH4-150-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26006 lumens
Efficiency: N/A
Efficacy: 172.5 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

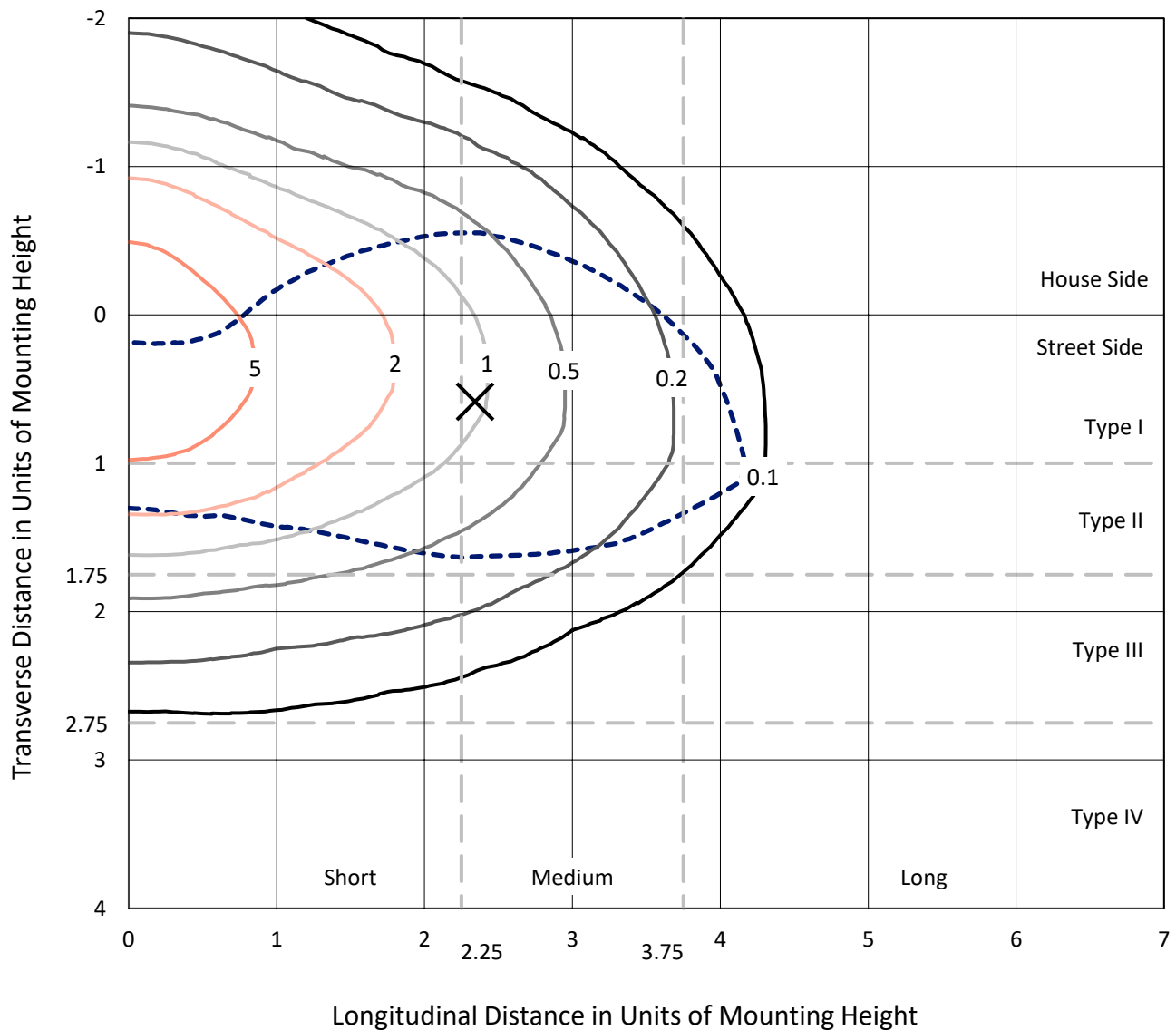
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841265
CATALOG NUMBER: ARCH4-150-750-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

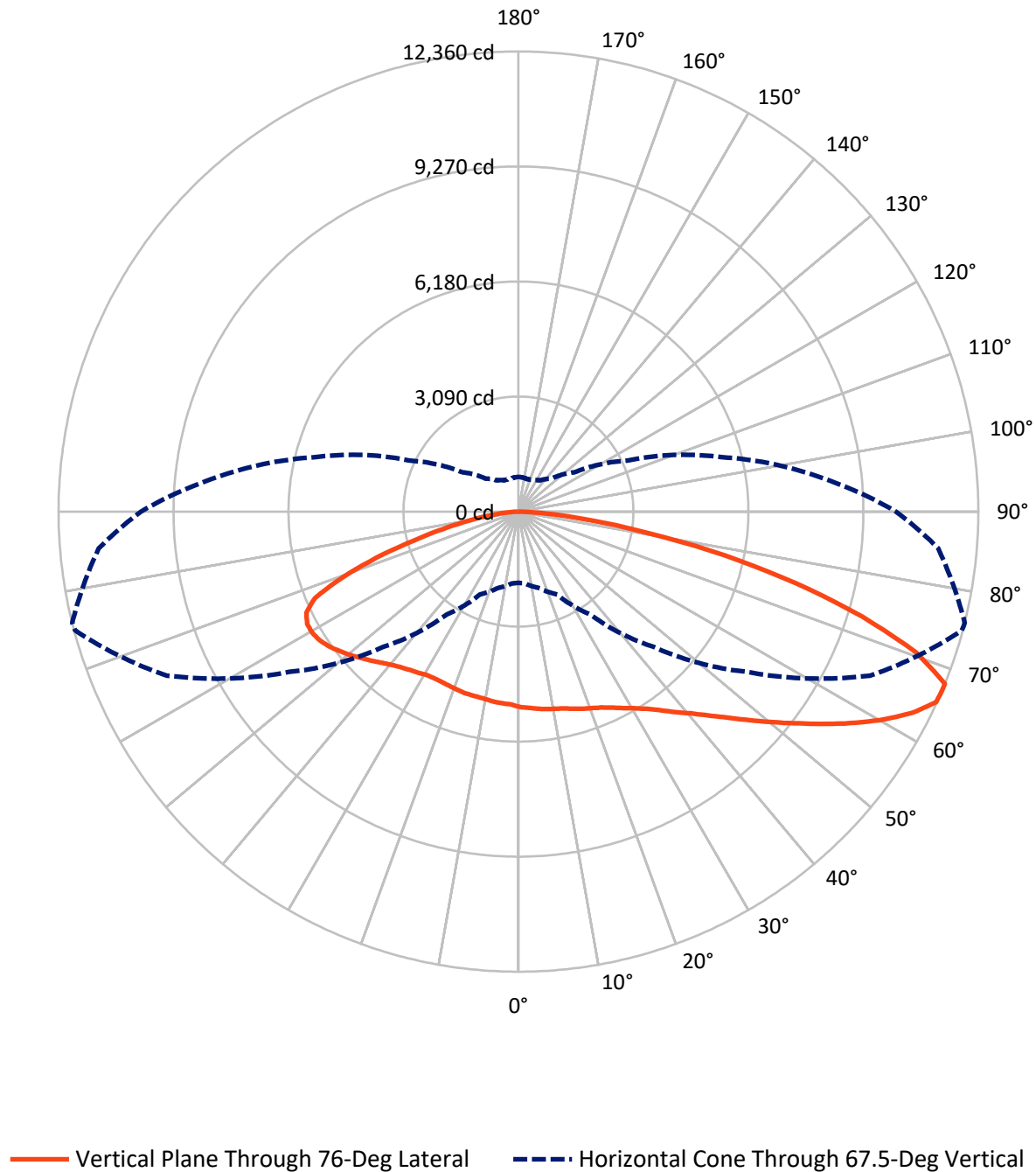
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Medium - N/A

REPORT NUMBER: P841265
CATALOG NUMBER: ARCH4-150-750-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841265

CATALOG NUMBER: ARCH4-150-750-U-T2U

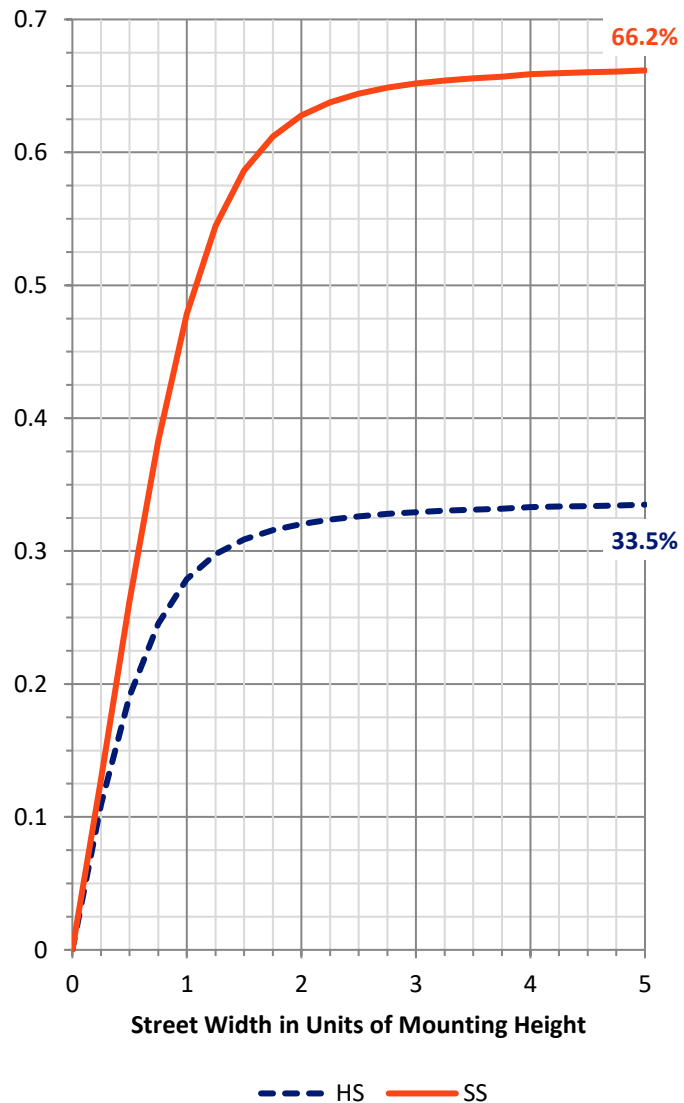
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8787.6	0.0	8787.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	17218.4	0.0	17218.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	26006.0	0.0	26006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	1.9
10°-20°	1548.6	6.0
20°-30°	2631.1	10.1
30°-40°	3743.8	14.4
40°-50°	4728.2	18.2
50°-60°	5119.2	19.7
60°-70°	4761.4	18.3
70°-80°	2557.3	9.8
80°-90°	409.8	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°	26006.0	100.0
0°-180°	26006.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841265

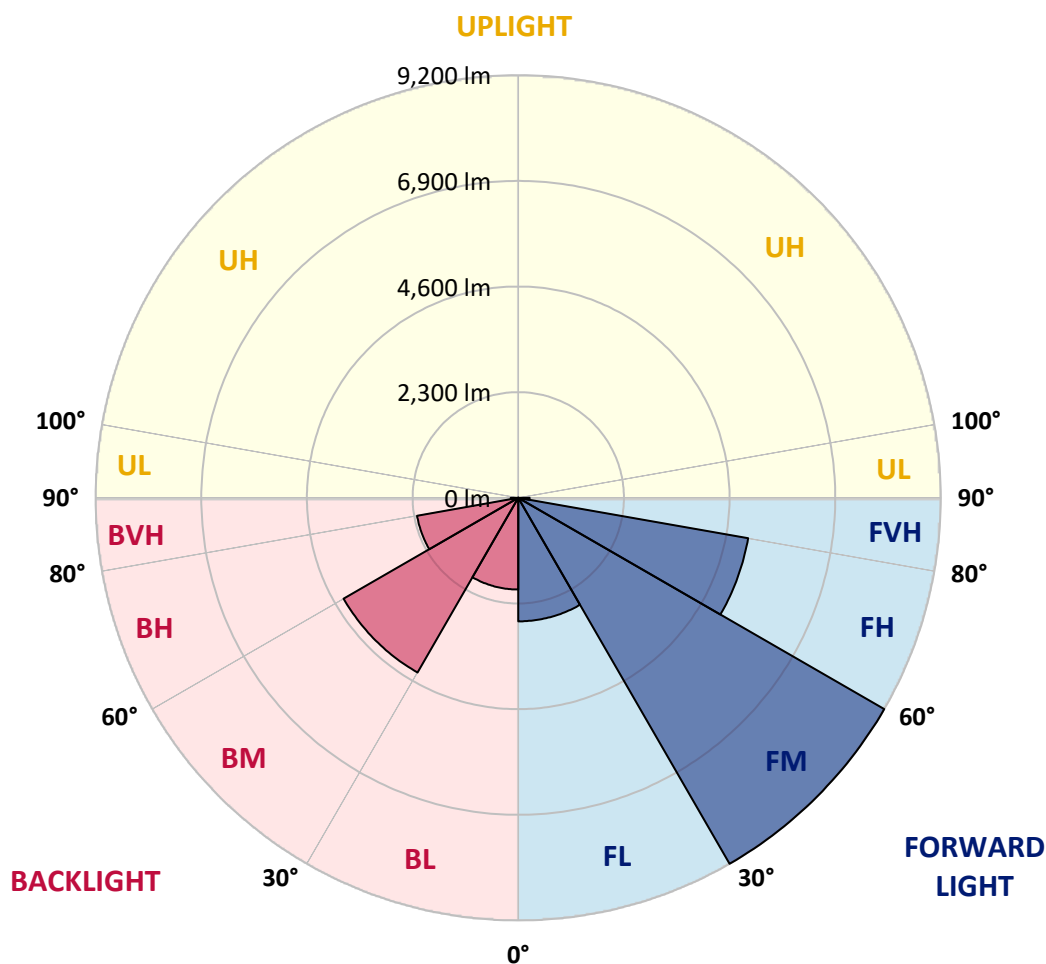
CATALOG NUMBER: ARCH4-150-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2689.3	10.3			
FM	(30°-60°)	9199.9	35.4			
FH	(60°-80°)	5081.3	19.5			G3/7500
FVH	(80°-90°)	247.9	1.0			G3/500
BL	(0°-30°)	1997.0	7.7	B3/2500		
BM	(30°-60°)	4391.3	16.9	B3/5000		
BH	(60°-80°)	2237.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	161.9	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: P841265

CATALOG NUMBER: ARCH4-150-750-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2
2.5°	5412.5	5402.8	5364.2	5369.0	5369.0	5364.2	5306.3	5282.1	5282.1	5277.3	5224.2
5°	5605.6	5591.1	5547.7	5538.0	5518.7	5494.6	5402.8	5349.7	5325.6	5320.8	5248.3
7.5°	5832.5	5813.2	5760.1	5731.2	5682.9	5620.1	5504.2	5422.1	5364.2	5359.4	5258.0
10°	6059.5	6040.2	5977.4	5924.3	5856.7	5755.3	5605.6	5484.9	5393.2	5383.5	5262.8
12.5°	6329.9	6310.5	6233.3	6165.7	6064.3	5929.1	5731.2	5567.0	5441.5	5427.0	5277.3
15°	6614.7	6585.8	6508.5	6431.3	6305.7	6131.9	5895.3	5678.0	5518.7	5494.6	5320.8
17.5°	6851.3	6812.7	6749.9	6672.7	6532.6	6329.9	6059.5	5789.1	5591.1	5571.8	5364.2
20°	7054.1	7025.1	6957.5	6885.1	6735.4	6513.3	6214.0	5900.1	5658.7	5634.6	5398.0
22.5°	7247.2	7208.6	7170.0	7116.9	6952.7	6706.5	6392.6	6035.3	5745.6	5716.7	5441.5
25°	7469.3	7425.9	7411.4	7382.4	7189.3	6938.2	6609.9	6204.3	5866.3	5832.5	5518.7
27.5°	7744.5	7696.3	7667.3	7667.3	7435.5	7174.8	6841.7	6402.3	6006.4	5977.4	5615.3
30°	8034.2	7976.3	7932.8	7932.8	7672.1	7411.4	7068.6	6600.2	6165.7	6131.9	5740.8
32.5°	8290.1	8232.2	8183.9	8179.1	7908.7	7648.0	7305.2	6817.5	6358.8	6315.4	5895.3
35°	8488.1	8435.0	8391.5	8401.2	8145.3	7889.4	7570.7	7107.2	6600.2	6552.0	6098.1
37.5°	8608.8	8589.5	8565.3	8599.1	8362.6	8121.1	7845.9	7387.2	6875.5	6832.0	6349.2
40°	8671.6	8657.1	8753.6	8797.1	8546.0	8328.8	8121.1	7676.9	7174.8	7126.5	6638.9
42.5°	8763.3	8884.0	8922.6	8913.0	8681.2	8488.1	8372.2	7990.8	7527.3	7483.8	6986.5
45°	8435.0	8406.0	8618.5	8734.3	8690.9	8589.5	8608.8	8367.4	7937.7	7894.2	7387.2
47.5°	7995.6	7957.0	8077.7	8362.6	8531.5	8628.1	8821.2	8758.5	8410.8	8372.2	7855.6
50°	7068.6	7121.7	7570.7	7952.2	8285.3	8618.5	8999.9	9178.5	8932.3	8893.7	8357.7
52.5°	6040.2	6093.3	6561.6	7440.4	7986.0	8546.0	9130.3	9598.6	9497.2	9453.7	8893.7
55°	5291.8	5407.7	5938.8	6576.1	7561.1	8319.1	9207.5	10028.3	10105.6	10066.9	9477.9
57.5°	4548.2	4635.1	5035.9	5600.8	6981.7	7923.2	9202.7	10429.1	10742.9	10704.3	10071.8
60°	3674.3	3785.4	4104.0	4712.4	6209.2	7450.0	9067.5	10742.9	11356.1	11327.1	10646.3
62.5°	3075.6	3109.4	3336.3	3862.6	5214.5	6851.3	8763.3	10911.9	11911.3	11892.0	11163.0
65°	2476.9	2481.7	2689.3	3128.7	4253.7	6107.8	8246.7	10849.1	12331.4	12341.1	11534.7
67.5°	1912.0	1936.1	2124.4	2457.6	3379.8	5142.1	7508.0	10424.2	12336.2	12360.4	11322.3
70°	1322.9	1342.3	1627.1	1950.6	2612.1	4099.2	6508.5	9299.2	11322.3	11341.6	10149.0
72.5°	931.9	941.5	1245.7	1559.5	2042.4	3090.1	4910.3	7691.4	9651.7	9666.2	8536.4
75°	695.3	704.9	878.7	1182.9	1564.4	2138.9	3355.6	5890.5	7710.7	7710.7	6740.3
77.5°	492.5	497.3	569.7	816.0	1042.9	1443.7	2018.2	3857.8	5658.7	5668.4	4910.3
80°	333.2	338.0	371.8	550.4	651.8	782.2	1096.0	2023.0	3568.1	3582.6	3119.1
82.5°	173.8	183.5	207.6	280.0	328.3	434.5	564.9	1028.4	1974.8	2013.4	1873.4
85°	67.6	67.6	77.3	91.7	120.7	169.0	260.7	391.1	893.2	922.2	825.6
87.5°	24.1	24.1	29.0	29.0	33.8	38.6	43.5	57.9	101.4	101.4	96.6
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: P841265

CATALOG NUMBER: ARCH4-150-750-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2	5253.2
2.5°	5204.9	5204.9	5180.7	5190.4	5185.6	5175.9	5166.2	5180.7	5166.2	5132.4	5127.6
5°	5214.5	5204.9	5166.2	5161.4	5146.9	5127.6	5103.5	5113.1	5089.0	5060.0	5055.2
7.5°	5219.4	5200.0	5146.9	5127.6	5098.7	5060.0	5021.4	5021.4	4987.6	4958.6	4953.8
10°	5209.7	5185.6	5113.1	5074.5	5021.4	4963.5	4910.3	4895.9	4857.2	4823.4	4823.4
12.5°	5214.5	5180.7	5089.0	5026.2	4953.8	4881.4	4813.8	4794.5	4760.7	4726.9	4722.0
15°	5243.5	5195.2	5079.3	4997.3	4891.0	4809.0	4736.5	4722.0	4693.1	4668.9	4668.9
17.5°	5272.5	5209.7	5064.9	4949.0	4818.6	4726.9	4659.3	4659.3	4640.0	4625.5	4625.5
20°	5287.0	5214.5	5035.9	4881.4	4731.7	4635.1	4572.4	4582.0	4577.2	4572.4	4572.4
22.5°	5320.8	5224.2	5011.7	4818.6	4640.0	4538.6	4480.6	4495.1	4490.3	4490.3	4495.1
25°	5373.9	5248.3	4992.4	4760.7	4553.1	4442.0	4379.2	4388.9	4388.9	4388.9	4388.9
27.5°	5446.3	5296.6	4987.6	4707.6	4466.1	4340.6	4263.4	4263.4	4244.0	4248.9	4253.7
30°	5557.3	5388.3	4997.3	4659.3	4374.4	4215.1	4123.3	4108.9	4104.0	4113.7	4118.5
32.5°	5692.5	5513.9	5055.2	4625.5	4277.8	4075.1	3959.2	3954.4	3939.9	3939.9	3939.9
35°	5861.5	5634.6	5108.3	4620.7	4181.3	3925.4	3799.8	3785.4	3751.6	3737.1	3737.1
37.5°	6078.8	5822.9	5171.1	4586.9	4099.2	3780.5	3630.9	3582.6	3543.9	3539.1	3539.1
40°	6344.3	6035.3	5262.8	4548.2	4012.3	3630.9	3432.9	3350.8	3355.6	3375.0	3375.0
42.5°	6658.2	6296.1	5378.7	4528.9	3886.8	3476.4	3201.1	3104.6	3138.4	3157.7	3162.5
45°	7025.1	6605.1	5509.1	4504.8	3770.9	3302.5	2954.9	2834.2	2848.7	2853.5	2858.3
47.5°	7450.0	6947.9	5644.2	4485.5	3640.5	3085.3	2684.5	2525.2	2520.4	2491.4	2501.0
50°	7894.2	7310.0	5784.3	4451.7	3481.2	2829.4	2399.6	2211.3	2172.7	2129.3	2134.1
52.5°	8367.4	7681.8	5914.6	4398.6	3283.2	2568.6	2129.3	1926.5	1849.2	1800.9	1810.6
55°	8888.8	8063.2	6040.2	4316.5	3075.6	2307.9	1887.9	1680.2	1583.7	1545.0	1549.9
57.5°	9366.8	8430.2	6131.9	4215.1	2848.7	2071.3	1675.4	1472.6	1409.9	1405.0	1409.9
60°	9830.4	8739.2	6170.5	4075.1	2616.9	1854.1	1477.4	1322.9	1279.5	1303.6	1308.5
62.5°	10221.4	8937.1	6151.2	3886.8	2380.3	1646.4	1318.1	1207.1	1178.1	1226.4	1231.2
65°	10448.4	8999.9	6016.0	3616.4	2124.4	1443.7	1168.4	1047.7	1033.2	1062.2	1076.7
67.5°	10149.0	8608.8	5649.1	3244.6	1839.6	1255.3	1023.6	927.0	902.9	927.0	927.0
70°	8995.1	7459.7	4780.0	2655.5	1525.7	1071.9	888.4	820.8	801.5	820.8	816.0
72.5°	7493.5	6204.3	3766.0	2071.3	1202.2	902.9	772.5	709.8	690.4	671.1	661.5
75°	5813.2	4712.4	2732.8	1520.9	907.7	724.2	647.0	589.0	540.8	560.1	550.4
77.5°	4258.5	3307.4	1936.1	1052.6	651.8	560.1	507.0	463.5	429.7	468.3	463.5
80°	2742.5	2138.9	1294.0	704.9	449.0	391.1	371.8	347.6	381.4	497.3	507.0
82.5°	1675.4	1356.7	772.5	458.7	294.5	260.7	241.4	241.4	391.1	429.7	434.5
85°	748.4	719.4	420.1	236.6	164.2	149.7	135.2	173.8	159.3	115.9	120.7
87.5°	120.7	125.5	91.7	82.1	62.8	62.8	48.3	33.8	24.1	14.5	14.5
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)