

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: P841364

Luminaire Tested: **ARCH4-170-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841364
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: ARCH4-170-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

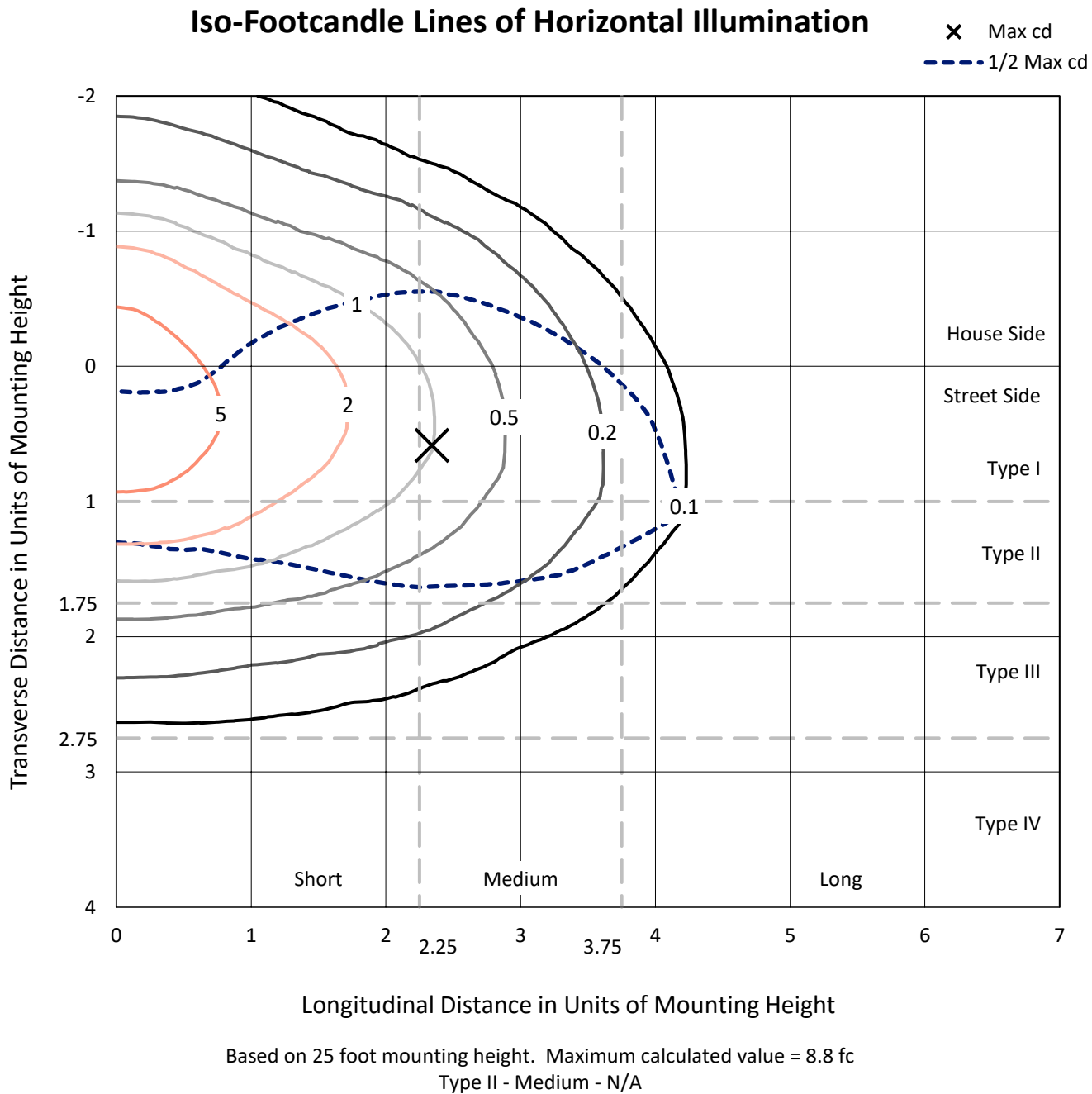
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23945 lumens
Efficiency: N/A
Efficacy: 141.0 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

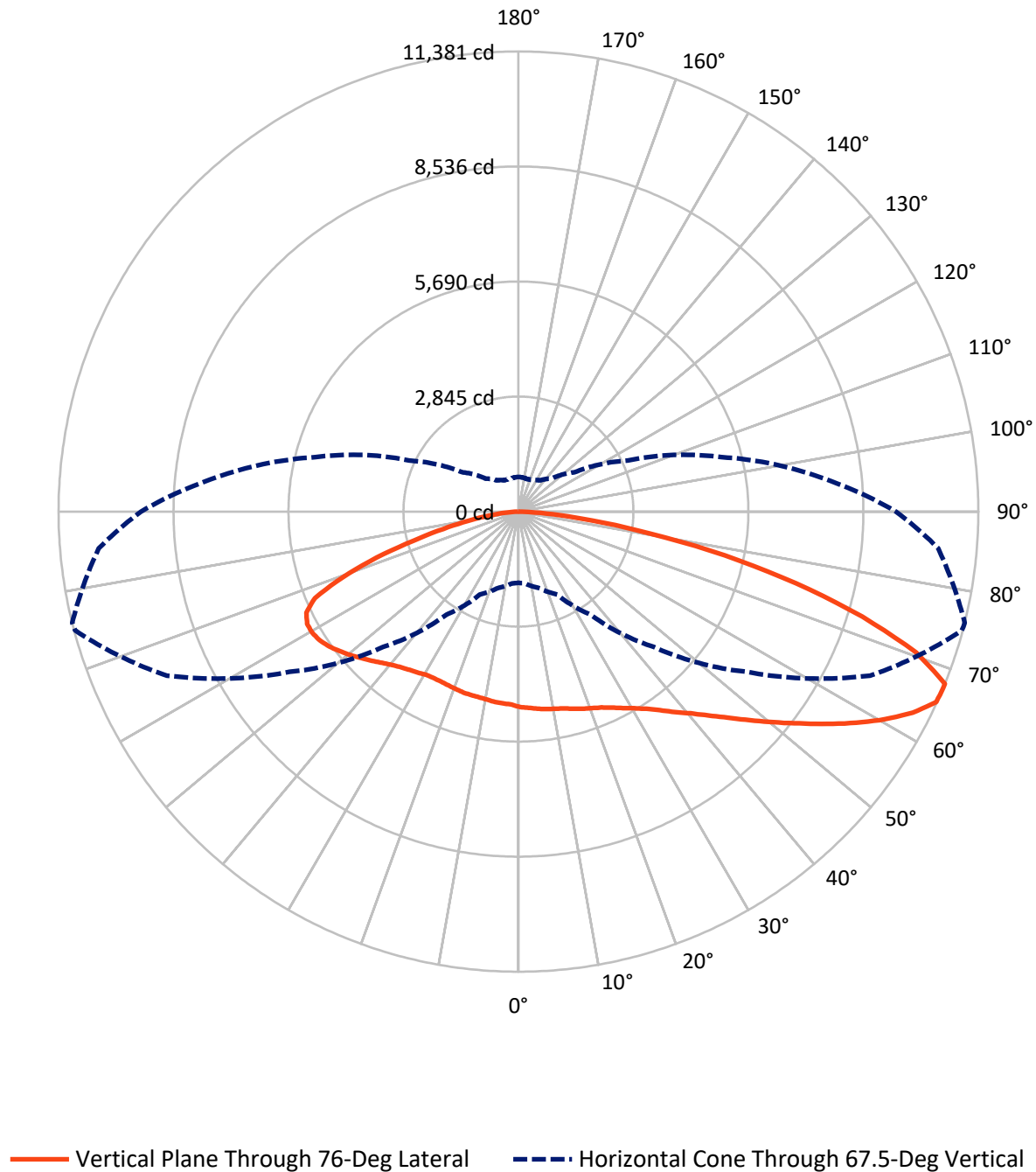


REPORT NUMBER: P841364
CATALOG NUMBER: ARCH4-170-722-U-T2U



REPORT NUMBER: P841364
CATALOG NUMBER: ARCH4-170-722-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841364

CATALOG NUMBER: ARCH4-170-722-U-T2U

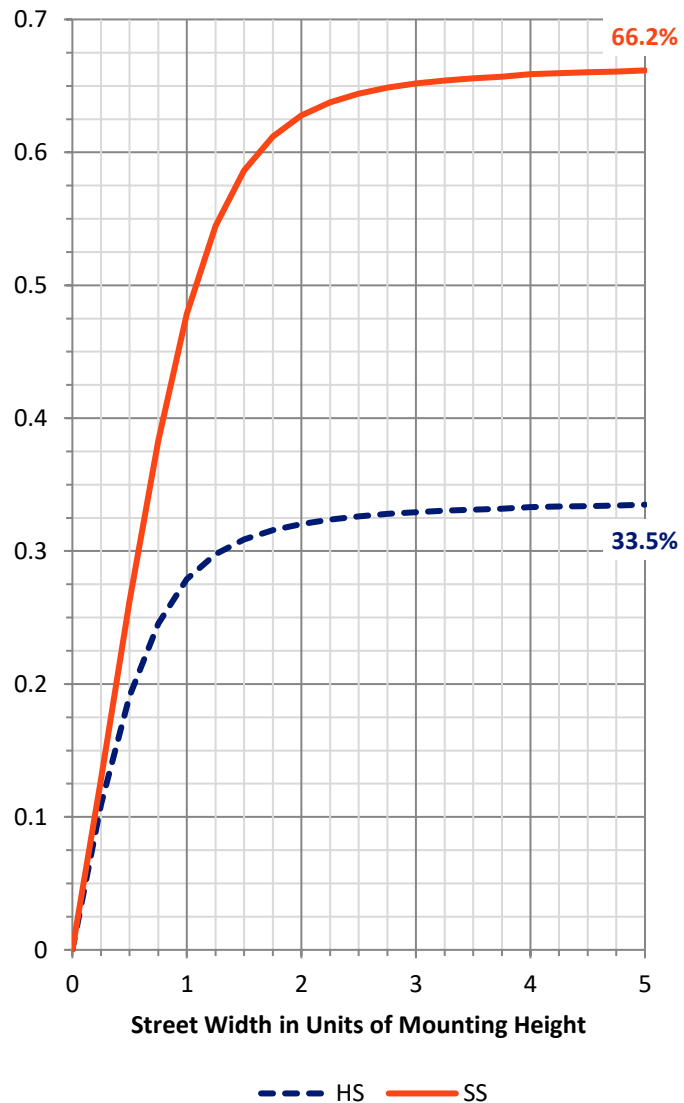
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8091.1	0.0	8091.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15853.9	0.0	15853.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	23945.0	0.0	23945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	1.9
10°-20°	1425.9	6.0
20°-30°	2422.6	10.1
30°-40°	3447.1	14.4
40°-50°	4353.5	18.2
50°-60°	4713.5	19.7
60°-70°	4384.1	18.3
70°-80°	2354.6	9.8
80°-90°	377.3	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°	23945.0	100.0
0°-180°	23945.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841364

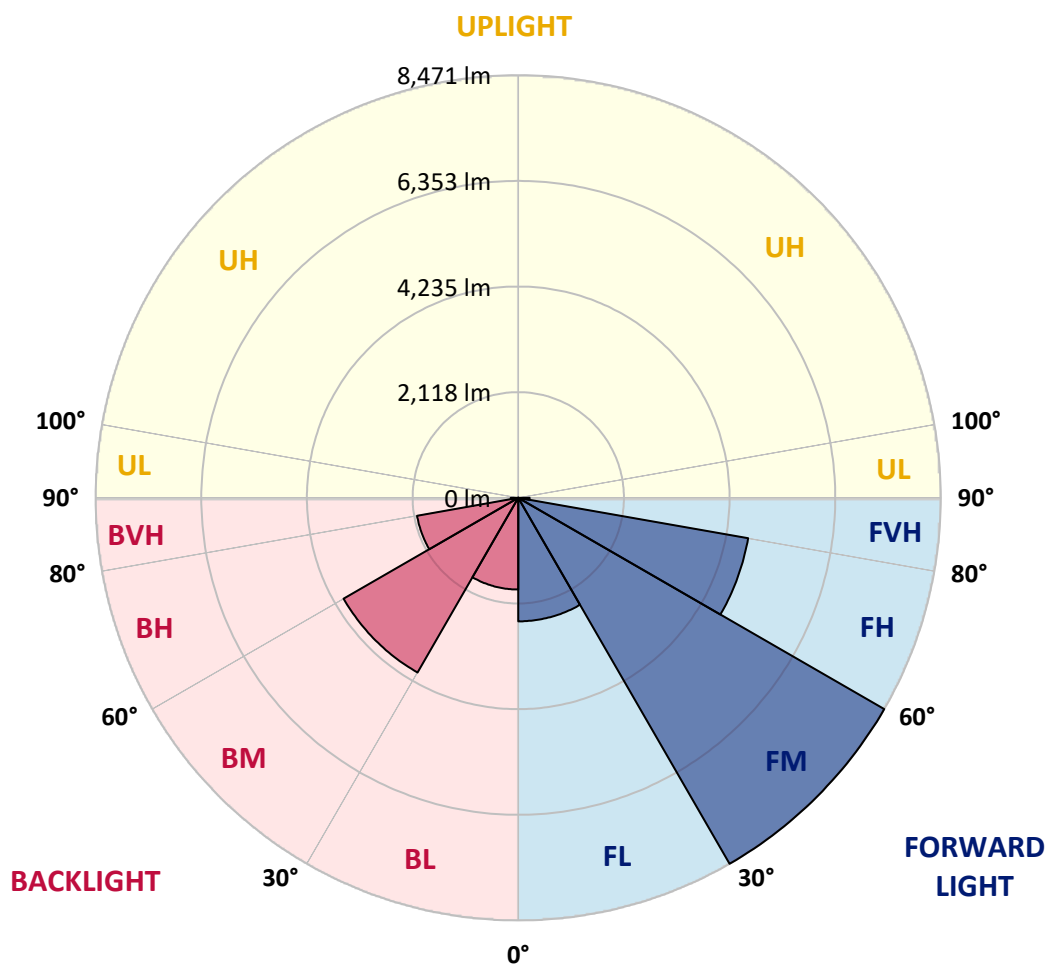
CATALOG NUMBER: ARCH4-170-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2476.2	10.3			
FM	(30°-60°)	8470.8	35.4			
FH	(60°-80°)	4678.6	19.5			G2/5000
FVH	(80°-90°)	228.2	1.0			G3/500
BL	(0°-30°)	1838.7	7.7	B3/2500		
BM	(30°-60°)	4043.3	16.9	B3/5000		
BH	(60°-80°)	2060.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	149.1	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: P841364

CATALOG NUMBER: ARCH4-170-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8
2.5°	4983.5	4974.7	4939.1	4943.5	4943.5	4939.1	4885.7	4863.5	4863.5	4859.1	4810.2
5°	5161.4	5148.0	5108.0	5099.1	5081.3	5059.1	4974.7	4925.7	4903.5	4899.1	4832.4
7.5°	5370.3	5352.5	5303.6	5277.0	5232.5	5174.7	5068.0	4992.4	4939.1	4934.6	4841.3
10°	5579.3	5561.5	5503.7	5454.8	5392.5	5299.2	5161.4	5050.2	4965.8	4956.9	4845.7
12.5°	5828.2	5810.4	5739.3	5677.1	5583.7	5459.2	5277.0	5125.8	5010.2	4996.9	4859.1
15°	6090.5	6063.8	5992.7	5921.6	5806.0	5645.9	5428.1	5228.1	5081.3	5059.1	4899.1
17.5°	6308.3	6272.8	6215.0	6143.9	6014.9	5828.2	5579.3	5330.3	5148.0	5130.2	4939.1
20°	6495.1	6468.4	6406.1	6339.5	6201.6	5997.1	5721.5	5432.6	5210.3	5188.0	4970.2
22.5°	6672.9	6637.3	6601.7	6552.8	6401.7	6175.0	5886.0	5557.0	5290.3	5263.6	5010.2
25°	6877.4	6837.4	6824.0	6797.4	6619.5	6388.4	6086.1	5712.6	5401.4	5370.3	5081.3
27.5°	7130.8	7086.3	7059.6	7059.6	6846.3	6606.2	6299.4	5894.9	5530.4	5503.7	5170.3
30°	7397.5	7344.2	7304.2	7304.2	7064.1	6824.0	6508.4	6077.2	5677.1	5645.9	5285.8
32.5°	7633.1	7579.8	7535.3	7530.9	7281.9	7041.9	6726.2	6277.2	5854.9	5814.9	5428.1
35°	7815.4	7766.5	7726.5	7735.4	7499.8	7264.1	6970.7	6544.0	6077.2	6032.7	5614.8
37.5°	7926.5	7908.8	7886.5	7917.7	7699.8	7477.5	7224.1	6801.8	6330.6	6290.6	5846.0
40°	7984.3	7971.0	8059.9	8099.9	7868.8	7668.7	7477.5	7068.5	6606.2	6561.7	6112.7
42.5°	8068.8	8179.9	8215.5	8206.6	7993.2	7815.4	7708.7	7357.5	6930.7	6890.7	6432.8
45°	7766.5	7739.8	7935.4	8042.1	8002.1	7908.8	7926.5	7704.3	7308.6	7268.6	6801.8
47.5°	7362.0	7326.4	7437.5	7699.8	7855.4	7944.3	8122.2	8064.4	7744.3	7708.7	7233.0
50°	6508.4	6557.3	6970.7	7321.9	7628.7	7935.4	8286.6	8451.1	8224.4	8188.8	7695.4
52.5°	5561.5	5610.4	6041.6	6850.7	7353.1	7868.8	8406.7	8837.9	8744.5	8704.5	8188.8
55°	4872.4	4979.1	5468.1	6054.9	6961.8	7659.8	8477.8	9233.6	9304.7	9269.1	8726.8
57.5°	4187.8	4267.8	4636.8	5156.9	6428.4	7295.3	8473.4	9602.5	9891.5	9855.9	9273.6
60°	3383.1	3485.4	3778.8	4338.9	5717.1	6859.6	8348.9	9891.5	10456.1	10429.4	9802.6
62.5°	2831.9	2863.0	3071.9	3556.5	4801.3	6308.3	8068.8	10047.1	10967.4	10949.6	10278.3
65°	2280.6	2285.0	2476.2	2880.8	3916.6	5623.7	7593.1	9989.3	11354.1	11363.0	10620.6
67.5°	1760.5	1782.7	1956.1	2262.8	3111.9	4734.6	6912.9	9598.1	11358.6	11380.8	10425.0
70°	1218.1	1235.9	1498.2	1796.0	2405.1	3774.3	5992.7	8562.3	10425.0	10442.8	9344.7
72.5°	858.0	866.9	1147.0	1435.9	1880.5	2845.2	4521.2	7081.9	8886.8	8900.1	7859.9
75°	640.2	649.1	809.1	1089.2	1440.4	1969.4	3089.7	5423.7	7099.7	7099.7	6206.1
77.5°	453.5	457.9	524.6	751.3	960.3	1329.2	1858.3	3552.1	5210.3	5219.2	4521.2
80°	306.7	311.2	342.3	506.8	600.2	720.2	1009.2	1862.7	3285.3	3298.7	2871.9
82.5°	160.0	168.9	191.2	257.8	302.3	400.1	520.1	946.9	1818.3	1853.8	1724.9
85°	62.2	62.2	71.1	84.5	111.1	155.6	240.1	360.1	822.4	849.1	760.2
87.5°	22.2	22.2	26.7	26.7	31.1	35.6	40.0	53.3	93.4	93.4	88.9
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: P841364

CATALOG NUMBER: ARCH4-170-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8
2.5°	4792.4	4792.4	4770.2	4779.0	4774.6	4765.7	4756.8	4770.2	4756.8	4725.7	4721.3
5°	4801.3	4792.4	4756.8	4752.4	4739.0	4721.3	4699.0	4707.9	4685.7	4659.0	4654.6
7.5°	4805.7	4787.9	4739.0	4721.3	4694.6	4659.0	4623.4	4623.4	4592.3	4565.7	4561.2
10°	4796.8	4774.6	4707.9	4672.3	4623.4	4570.1	4521.2	4507.9	4472.3	4441.2	4441.2
12.5°	4801.3	4770.2	4685.7	4627.9	4561.2	4494.5	4432.3	4414.5	4383.4	4352.3	4347.8
15°	4827.9	4783.5	4676.8	4601.2	4503.4	4427.8	4361.2	4347.8	4321.1	4298.9	4298.9
17.5°	4854.6	4796.8	4663.5	4556.8	4436.7	4352.3	4290.0	4290.0	4272.2	4258.9	4258.9
20°	4868.0	4801.3	4636.8	4494.5	4356.7	4267.8	4210.0	4218.9	4214.5	4210.0	4210.0
22.5°	4899.1	4810.2	4614.6	4436.7	4272.2	4178.9	4125.5	4138.9	4134.4	4134.4	4138.9
25°	4948.0	4832.4	4596.8	4383.4	4192.2	4090.0	4032.2	4041.1	4041.1	4041.1	4041.1
27.5°	5014.7	4876.8	4592.3	4334.5	4112.2	3996.6	3925.5	3925.5	3907.7	3912.1	3916.6
30°	5116.9	4961.3	4601.2	4290.0	4027.7	3881.0	3796.6	3783.2	3778.8	3787.7	3792.1
32.5°	5241.4	5076.9	4654.6	4258.9	3938.8	3752.1	3645.4	3641.0	3627.6	3627.6	3627.6
35°	5397.0	5188.0	4703.5	4254.5	3849.9	3614.3	3498.7	3485.4	3454.2	3440.9	3440.9
37.5°	5597.0	5361.4	4761.3	4223.3	3774.3	3480.9	3343.1	3298.7	3263.1	3258.6	3258.6
40°	5841.5	5557.0	4845.7	4187.8	3694.3	3343.1	3160.8	3085.3	3089.7	3107.5	3107.5
42.5°	6130.5	5797.1	4952.4	4170.0	3578.7	3200.8	2947.4	2858.5	2889.7	2907.4	2911.9
45°	6468.4	6081.6	5072.5	4147.8	3472.0	3040.8	2720.7	2609.6	2622.9	2627.4	2631.8
47.5°	6859.6	6397.3	5196.9	4130.0	3352.0	2840.8	2471.8	2325.1	2320.6	2293.9	2302.8
50°	7268.6	6730.7	5325.9	4098.9	3205.3	2605.1	2209.5	2036.1	2000.5	1960.5	1965.0
52.5°	7704.3	7073.0	5445.9	4050.0	3023.0	2365.1	1960.5	1773.8	1702.7	1658.2	1667.1
55°	8184.4	7424.2	5561.5	3974.4	2831.9	2125.0	1738.2	1547.1	1458.2	1422.6	1427.0
57.5°	8624.5	7762.1	5645.9	3881.0	2622.9	1907.2	1542.6	1355.9	1298.1	1293.7	1298.1
60°	9051.3	8046.6	5681.5	3752.1	2409.5	1707.1	1360.4	1218.1	1178.1	1200.3	1204.8
62.5°	9411.4	8228.8	5663.7	3578.7	2191.7	1516.0	1213.7	1111.4	1084.7	1129.2	1133.6
65°	9620.3	8286.6	5539.2	3329.8	1956.1	1329.2	1075.8	964.7	951.4	978.0	991.4
67.5°	9344.7	7926.5	5201.4	2987.5	1693.8	1155.9	942.5	853.6	831.3	853.6	853.6
70°	8282.2	6868.5	4401.2	2445.1	1404.8	986.9	818.0	755.8	738.0	755.8	751.3
72.5°	6899.6	5712.6	3467.6	1907.2	1107.0	831.3	711.3	653.5	635.7	617.9	609.1
75°	5352.5	4338.9	2516.2	1400.4	835.8	666.8	595.7	542.4	497.9	515.7	506.8
77.5°	3921.0	3045.3	1782.7	969.1	600.2	515.7	466.8	426.8	395.7	431.2	426.8
80°	2525.1	1969.4	1191.4	649.1	413.4	360.1	342.3	320.1	351.2	457.9	466.8
82.5°	1542.6	1249.2	711.3	422.3	271.2	240.1	222.3	222.3	360.1	395.7	400.1
85°	689.1	662.4	386.8	217.8	151.2	137.8	124.5	160.0	146.7	106.7	111.1
87.5°	111.1	115.6	84.5	75.6	57.8	57.8	44.5	31.1	22.2	13.3	13.3
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)