

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: P841292

Luminaire Tested: **ARCH4-160-722-U-T2U**

Issue Date: 5/27/2024

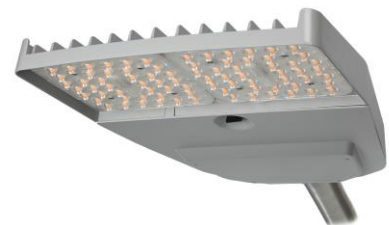
Test Information

Test Method: LM-79-08
Report Number: P841292
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: ARCH4-160-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

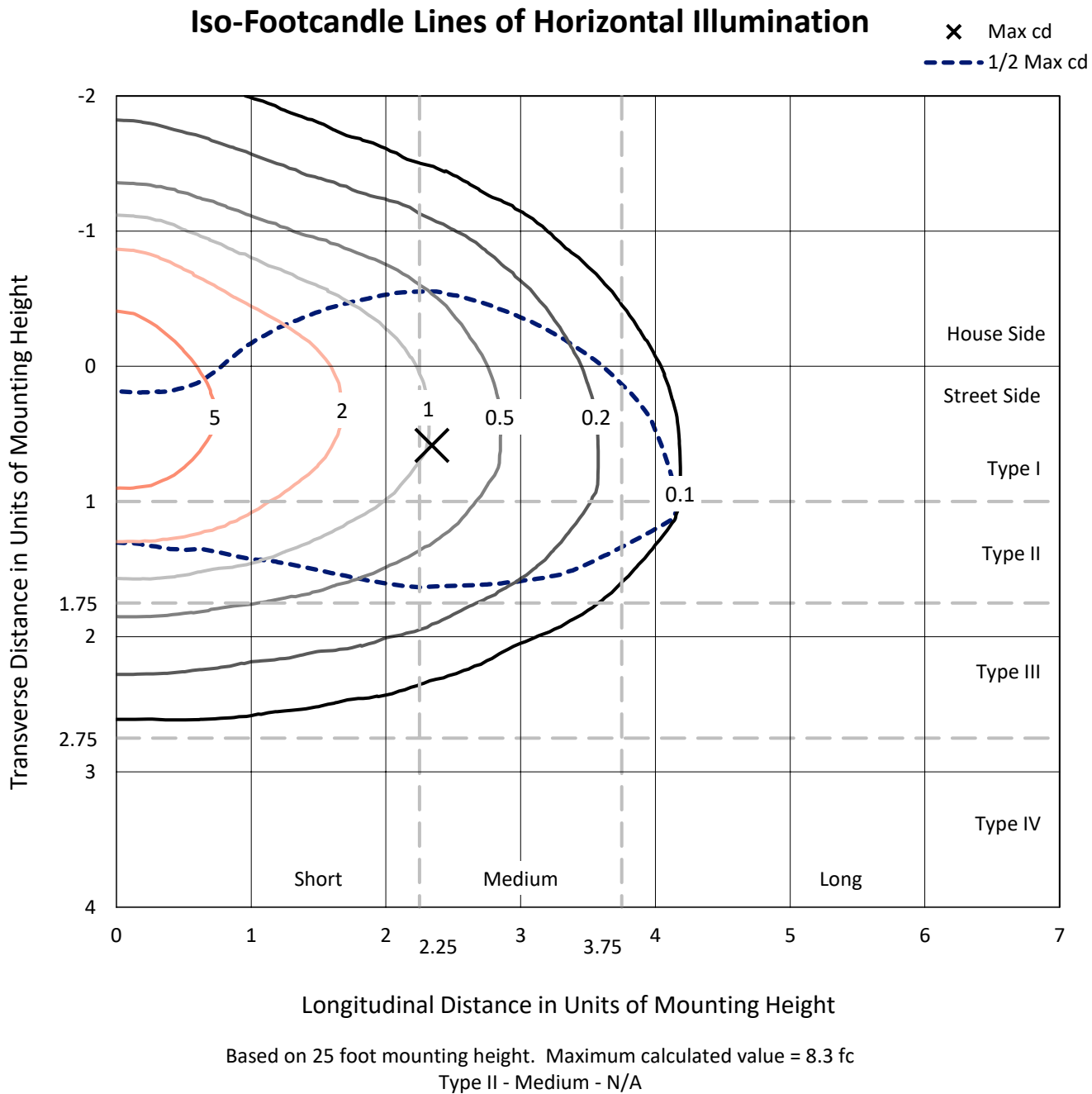
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22845 lumens
Efficiency: N/A
Efficacy: 142.2 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): 160.7
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

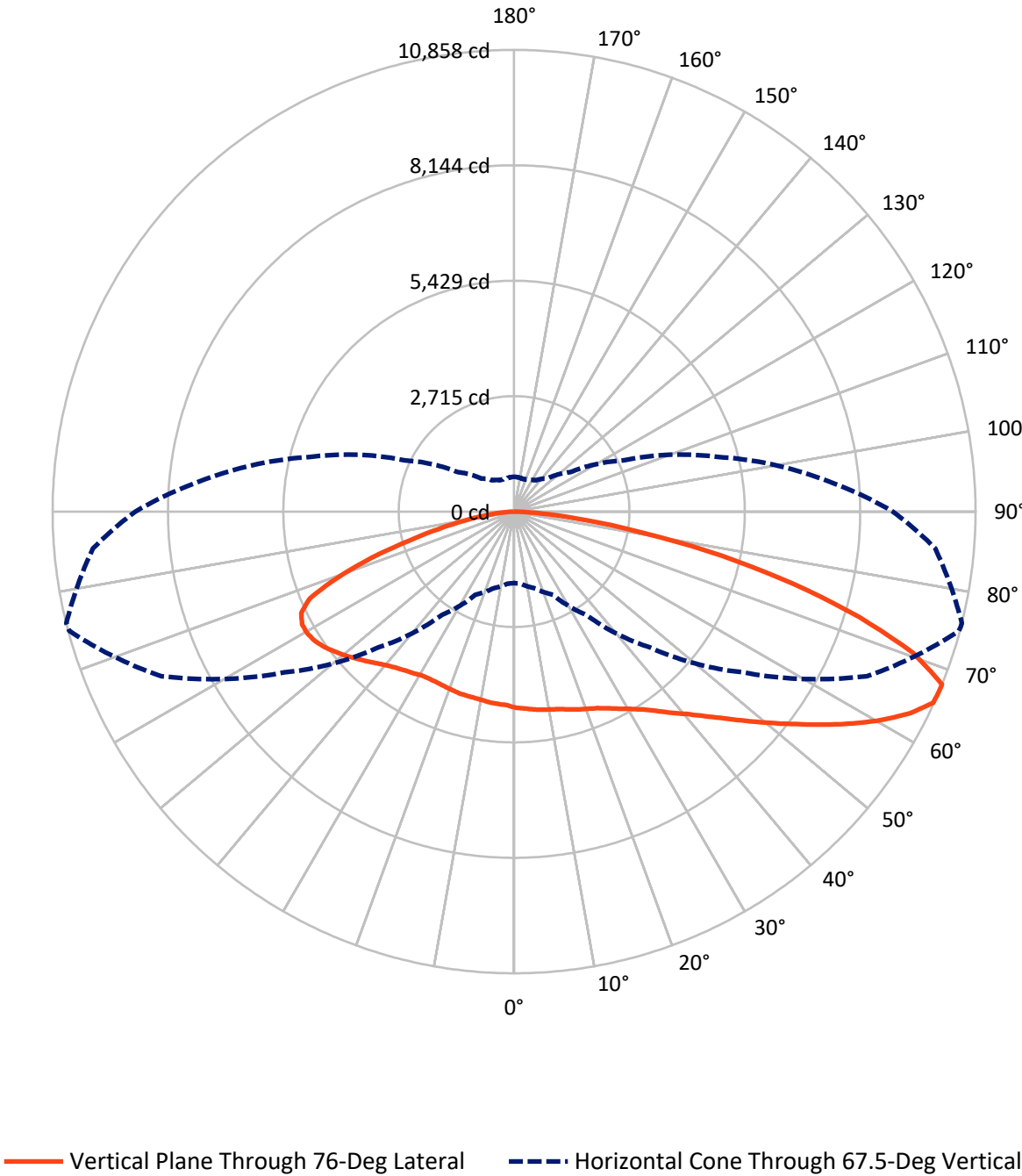


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Luminous Intensity Polar Plot



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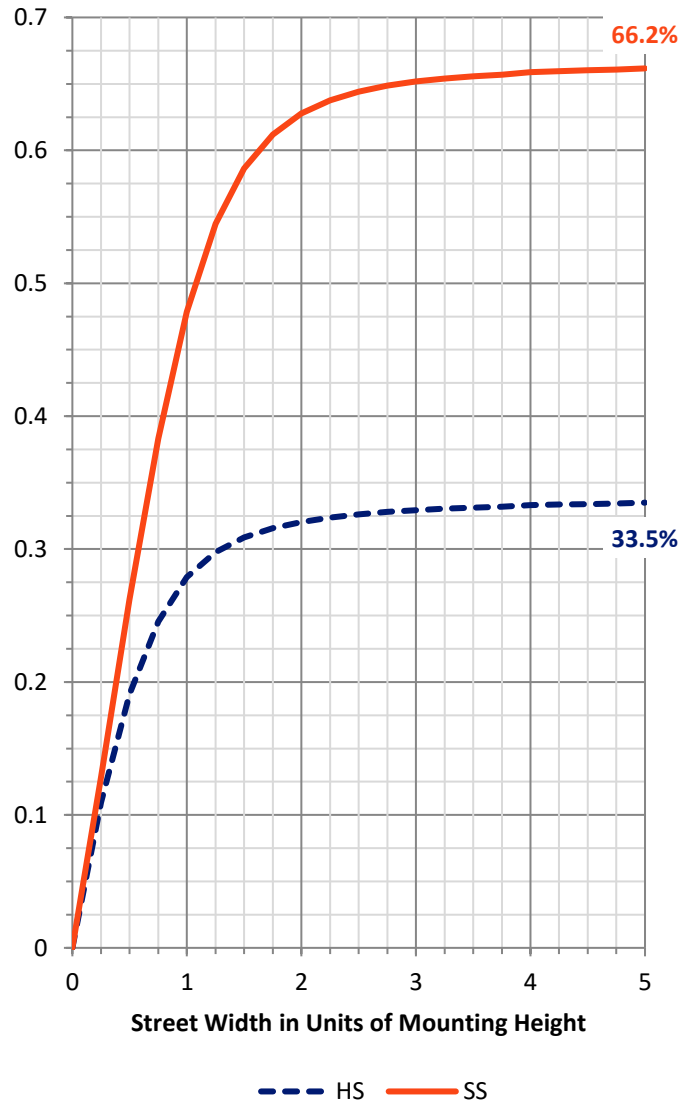
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7719.4	0.0	7719.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15125.6	0.0	15125.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	22845.0	0.0	22845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.0	1.9
10°-20°	1360.4	6.0
20°-30°	2311.3	10.1
30°-40°	3288.7	14.4
40°-50°	4153.5	18.2
50°-60°	4497.0	19.7
60°-70°	4182.7	18.3
70°-80°	2246.5	9.8
80°-90°	360.0	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°	22845.0	100.0
0°-180°	22845.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841292

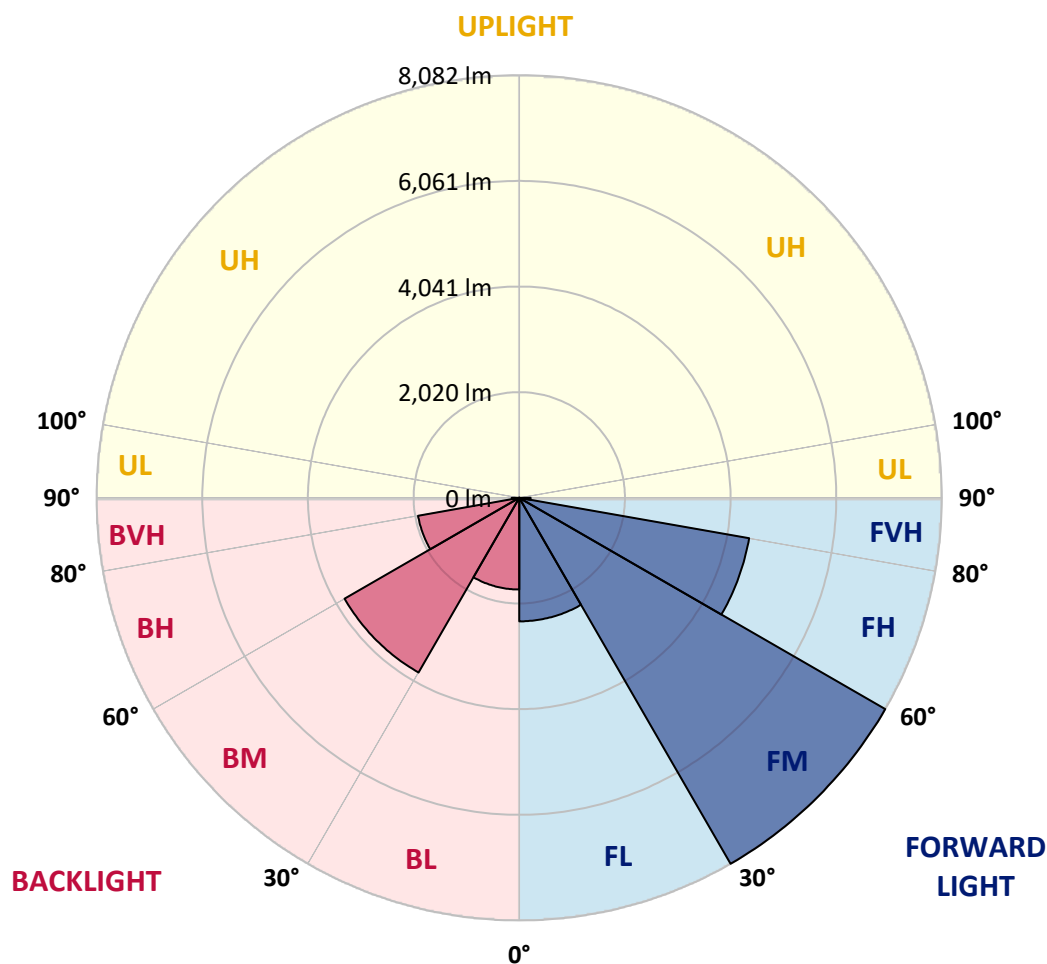
CATALOG NUMBER: ARCH4-160-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2362.4	10.3			
FM	(30°-60°)	8081.7	35.4			
FH	(60°-80°)	4463.7	19.5			G2/5000
FVH	(80°-90°)	217.7	1.0			G2/225
BL	(0°-30°)	1754.3	7.7	B3/2500		
BM	(30°-60°)	3857.5	16.9	B3/5000		
BH	(60°-80°)	1965.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	142.2	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: P841292

CATALOG NUMBER: ARCH4-160-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6
2.5°	4754.6	4746.1	4712.2	4716.4	4716.4	4712.2	4661.3	4640.1	4640.1	4635.8	4589.2
5°	4924.3	4911.5	4873.4	4864.9	4847.9	4826.7	4746.1	4699.5	4678.3	4674.0	4610.4
7.5°	5123.6	5106.6	5060.0	5034.5	4992.1	4937.0	4835.2	4763.1	4712.2	4708.0	4618.9
10°	5323.0	5306.0	5250.8	5204.2	5144.8	5055.7	4924.3	4818.2	4737.6	4729.2	4623.1
12.5°	5560.5	5543.5	5475.6	5416.3	5327.2	5208.4	5034.5	4890.3	4780.1	4767.3	4635.8
15°	5810.7	5785.3	5717.4	5649.5	5539.3	5386.6	5178.7	4987.9	4847.9	4826.7	4674.0
17.5°	6018.5	5984.6	5929.5	5861.6	5738.6	5560.5	5323.0	5085.4	4911.5	4894.6	4712.2
20°	6196.7	6171.2	6111.9	6048.2	5916.7	5721.6	5458.7	5183.0	4970.9	4949.7	4741.9
22.5°	6366.3	6332.4	6298.5	6251.8	6107.6	5891.3	5615.6	5301.7	5047.3	5021.8	4780.1
25°	6561.4	6523.3	6510.5	6485.1	6315.4	6094.9	5806.5	5450.2	5153.3	5123.6	4847.9
27.5°	6803.2	6760.8	6735.3	6735.3	6531.8	6302.7	6010.1	5624.1	5276.3	5250.8	4932.7
30°	7057.7	7006.8	6968.6	6968.6	6739.6	6510.5	6209.4	5798.0	5416.3	5386.6	5043.0
32.5°	7282.5	7231.6	7189.2	7184.9	6947.4	6718.4	6417.2	5988.9	5585.9	5547.7	5178.7
35°	7456.4	7409.7	7371.5	7380.0	7155.2	6930.4	6650.5	6243.3	5798.0	5755.6	5356.9
37.5°	7562.4	7545.4	7524.2	7553.9	7346.1	7134.0	6892.3	6489.3	6039.7	6001.6	5577.4
40°	7617.5	7604.8	7689.7	7727.8	7507.3	7316.4	7134.0	6743.8	6302.7	6260.3	5831.9
42.5°	7698.1	7804.2	7838.1	7829.6	7626.0	7456.4	7354.6	7019.5	6612.3	6574.2	6137.3
45°	7409.7	7384.3	7570.9	7672.7	7634.5	7545.4	7562.4	7350.3	6972.9	6934.7	6489.3
47.5°	7023.8	6989.8	7095.9	7346.1	7494.5	7579.4	7749.0	7693.9	7388.5	7354.6	6900.8
50°	6209.4	6256.1	6650.5	6985.6	7278.2	7570.9	7906.0	8062.9	7846.6	7812.7	7341.9
52.5°	5306.0	5352.6	5764.1	6536.0	7015.3	7507.3	8020.5	8431.9	8342.8	8304.7	7812.7
55°	4648.6	4750.4	5216.9	5776.8	6642.0	7307.9	8088.3	8809.4	8877.2	8843.3	8325.9
57.5°	3995.4	4071.7	4423.8	4920.0	6133.1	6960.1	8084.1	9161.4	9437.1	9403.2	8847.6
60°	3227.7	3325.3	3605.2	4139.6	5454.4	6544.5	7965.3	9437.1	9975.8	9950.3	9352.3
62.5°	2701.8	2731.5	2930.8	3393.1	4580.7	6018.5	7698.1	9585.6	10463.5	10446.6	9806.1
65°	2175.8	2180.1	2362.5	2748.4	3736.7	5365.4	7244.3	9530.4	10832.5	10841.0	10132.7
67.5°	1679.6	1700.8	1866.2	2158.9	2969.0	4517.1	6595.4	9157.2	10836.8	10858.0	9946.1
70°	1162.1	1179.1	1429.4	1713.5	2294.6	3600.9	5717.4	8168.9	9946.1	9963.0	8915.4
72.5°	818.6	827.1	1094.3	1370.0	1794.1	2714.5	4313.5	6756.5	8478.6	8491.3	7498.8
75°	610.8	619.2	771.9	1039.1	1374.2	1878.9	2947.8	5174.5	6773.5	6773.5	5921.0
77.5°	432.6	436.9	500.5	716.8	916.1	1268.2	1772.9	3388.9	4970.9	4979.4	4313.5
80°	292.7	296.9	326.6	483.5	572.6	687.1	962.8	1777.1	3134.4	3147.1	2739.9
82.5°	152.7	161.2	182.4	246.0	288.4	381.7	496.2	903.4	1734.7	1768.7	1645.7
85°	59.4	59.4	67.9	80.6	106.0	148.4	229.0	343.6	784.7	810.1	725.3
87.5°	21.2	21.2	25.4	25.4	29.7	33.9	38.2	50.9	89.1	89.1	84.8
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: P841292

CATALOG NUMBER: ARCH4-160-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6	4614.6
2.5°	4572.2	4572.2	4551.0	4559.5	4555.3	4546.8	4538.3	4551.0	4538.3	4508.6	4504.4
5°	4580.7	4572.2	4538.3	4534.1	4521.3	4504.4	4483.2	4491.6	4470.4	4445.0	4440.7
7.5°	4584.9	4568.0	4521.3	4504.4	4478.9	4445.0	4411.1	4411.1	4381.4	4355.9	4351.7
10°	4576.5	4555.3	4491.6	4457.7	4411.1	4360.2	4313.5	4300.8	4266.8	4237.2	4237.2
12.5°	4580.7	4551.0	4470.4	4415.3	4351.7	4288.1	4228.7	4211.7	4182.0	4152.3	4148.1
15°	4606.2	4563.7	4461.9	4389.8	4296.5	4224.4	4160.8	4148.1	4122.6	4101.4	4101.4
17.5°	4631.6	4576.5	4449.2	4347.4	4232.9	4152.3	4092.9	4092.9	4076.0	4063.3	4063.3
20°	4644.3	4580.7	4423.8	4288.1	4156.6	4071.7	4016.6	4025.1	4020.8	4016.6	4016.6
22.5°	4674.0	4589.2	4402.6	4232.9	4076.0	3986.9	3936.0	3948.7	3944.5	3944.5	3948.7
25°	4720.7	4610.4	4385.6	4182.0	3999.6	3902.1	3846.9	3855.4	3855.4	3855.4	3855.4
27.5°	4784.3	4652.8	4381.4	4135.4	3923.3	3813.0	3745.2	3745.2	3728.2	3732.4	3736.7
30°	4881.8	4733.4	4389.8	4092.9	3842.7	3702.7	3622.2	3609.4	3605.2	3613.7	3617.9
32.5°	5000.6	4843.7	4440.7	4063.3	3757.9	3579.7	3477.9	3473.7	3461.0	3461.0	3461.0
35°	5149.1	4949.7	4487.4	4059.0	3673.0	3448.3	3338.0	3325.3	3295.6	3282.8	3282.8
37.5°	5339.9	5115.1	4542.5	4029.3	3600.9	3321.0	3189.5	3147.1	3113.2	3108.9	3108.9
40°	5573.2	5301.7	4623.1	3995.4	3524.6	3189.5	3015.6	2943.5	2947.8	2964.7	2964.7
42.5°	5848.9	5530.8	4724.9	3978.4	3414.3	3053.8	2812.0	2727.2	2756.9	2773.9	2778.1
45°	6171.2	5802.2	4839.4	3957.2	3312.5	2901.1	2595.7	2489.7	2502.4	2506.7	2510.9
47.5°	6544.5	6103.4	4958.2	3940.3	3198.0	2710.3	2358.2	2218.3	2214.0	2188.6	2197.0
50°	6934.7	6421.5	5081.2	3910.6	3058.0	2485.5	2108.0	1942.6	1908.6	1870.5	1874.7
52.5°	7350.3	6748.1	5195.7	3863.9	2884.1	2256.4	1870.5	1692.3	1624.5	1582.0	1590.5
55°	7808.4	7083.1	5306.0	3791.8	2701.8	2027.4	1658.4	1476.0	1391.2	1357.2	1361.5
57.5°	8228.3	7405.5	5386.6	3702.7	2502.4	1819.6	1471.8	1293.6	1238.5	1234.2	1238.5
60°	8635.5	7676.9	5420.5	3579.7	2298.8	1628.7	1297.9	1162.1	1124.0	1145.2	1149.4
62.5°	8979.0	7850.8	5403.5	3414.3	2091.0	1446.3	1157.9	1060.3	1034.9	1077.3	1081.6
65°	9178.4	7906.0	5284.8	3176.8	1866.2	1268.2	1026.4	920.4	907.7	933.1	945.8
67.5°	8915.4	7562.4	4962.4	2850.2	1616.0	1102.8	899.2	814.3	793.1	814.3	814.3
70°	7901.7	6553.0	4199.0	2332.8	1340.3	941.6	780.4	721.0	704.1	721.0	716.8
72.5°	6582.6	5450.2	3308.3	1819.6	1056.1	793.1	678.6	623.5	606.5	589.6	581.1
75°	5106.6	4139.6	2400.6	1336.0	797.4	636.2	568.3	517.5	475.0	492.0	483.5
77.5°	3740.9	2905.4	1700.8	924.6	572.6	492.0	445.3	407.2	377.5	411.4	407.2
80°	2409.1	1878.9	1136.7	619.2	394.4	343.6	326.6	305.4	335.1	436.9	445.3
82.5°	1471.8	1191.8	678.6	402.9	258.7	229.0	212.1	212.1	343.6	377.5	381.7
85°	657.4	632.0	369.0	207.8	144.2	131.5	118.8	152.7	140.0	101.8	106.0
87.5°	106.0	110.3	80.6	72.1	55.1	55.1	42.4	29.7	21.2	12.7	12.7
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)