

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: P841308

Luminaire Tested: **ARCH4-160-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26099 lumens
Efficiency: N/A
Efficacy: 162.4 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



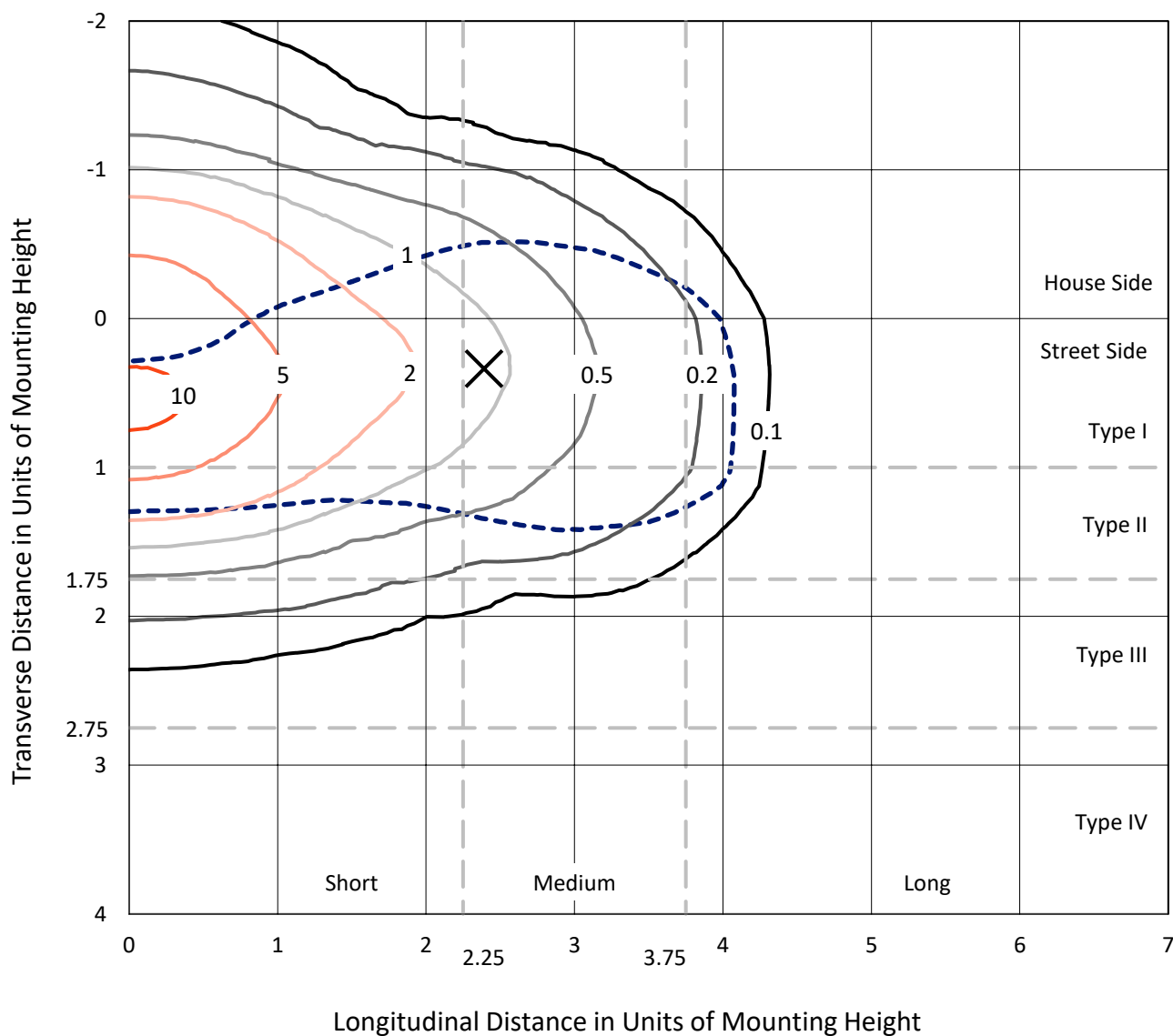
REPORT NUMBER: P841308

CATALOG NUMBER: ARCH4-160-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

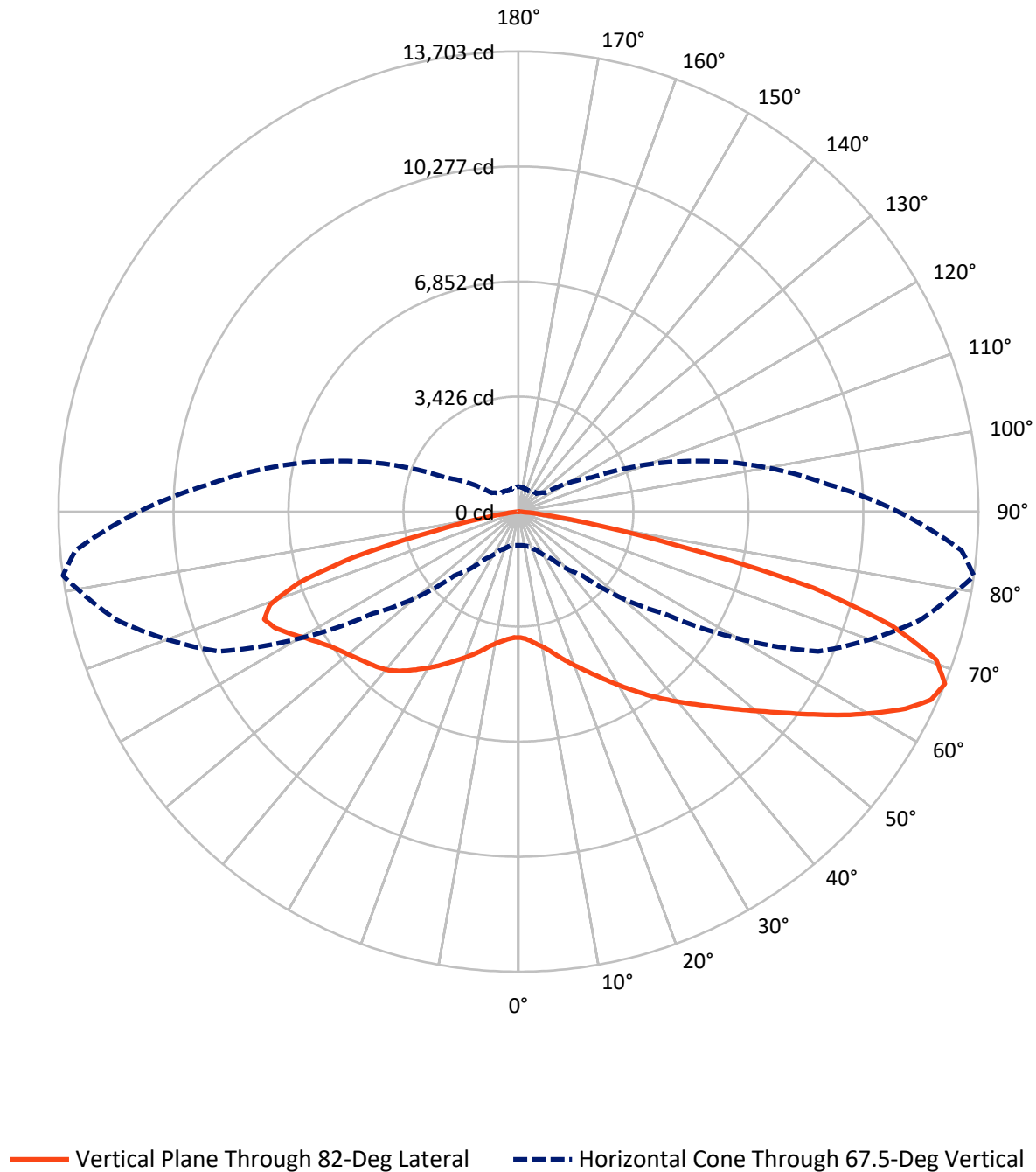
--- 1/2 Max cd



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

REPORT NUMBER: P841308
CATALOG NUMBER: ARCH4-160-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P841308

CATALOG NUMBER: ARCH4-160-730-U-T2R

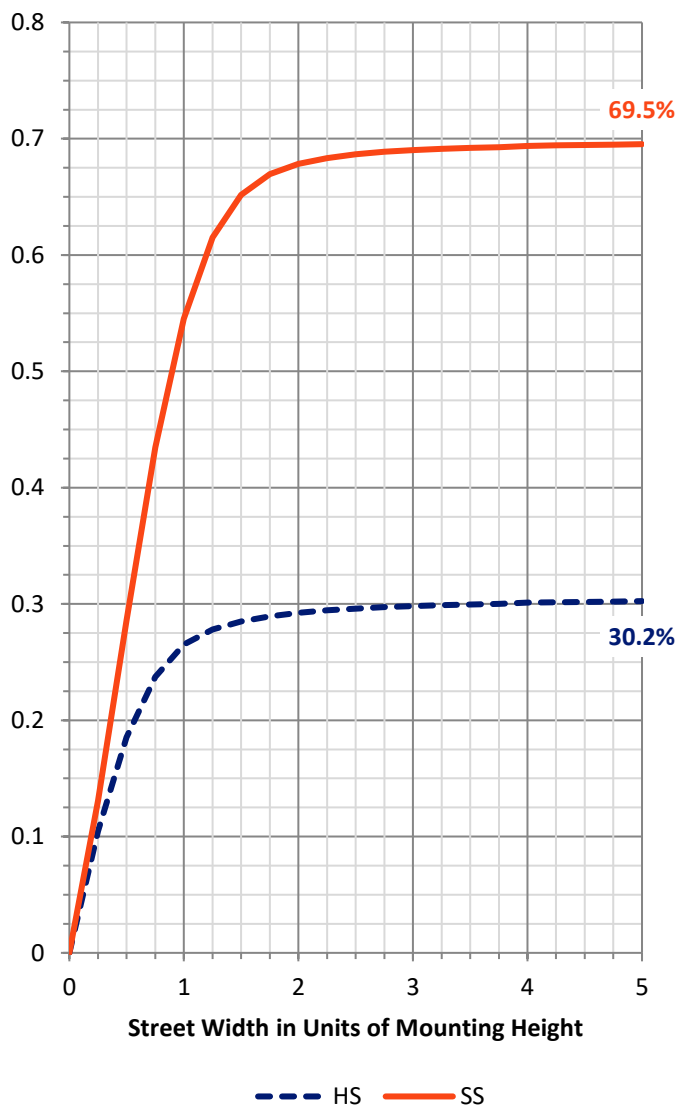
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7948.2	0.0	7948.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18150.8	0.0	18150.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	26099.0	0.0	26099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	1.5
10°-20°	1396.6	5.4
20°-30°	2806.8	10.8
30°-40°	4409.1	16.9
40°-50°	5371.2	20.6
50°-60°	5075.1	19.4
60°-70°	4190.9	16.1
70°-80°	2282.1	8.7
80°-90°	179.4	0.7
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°	26099.0	100.0
0°-180°	26099.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841308

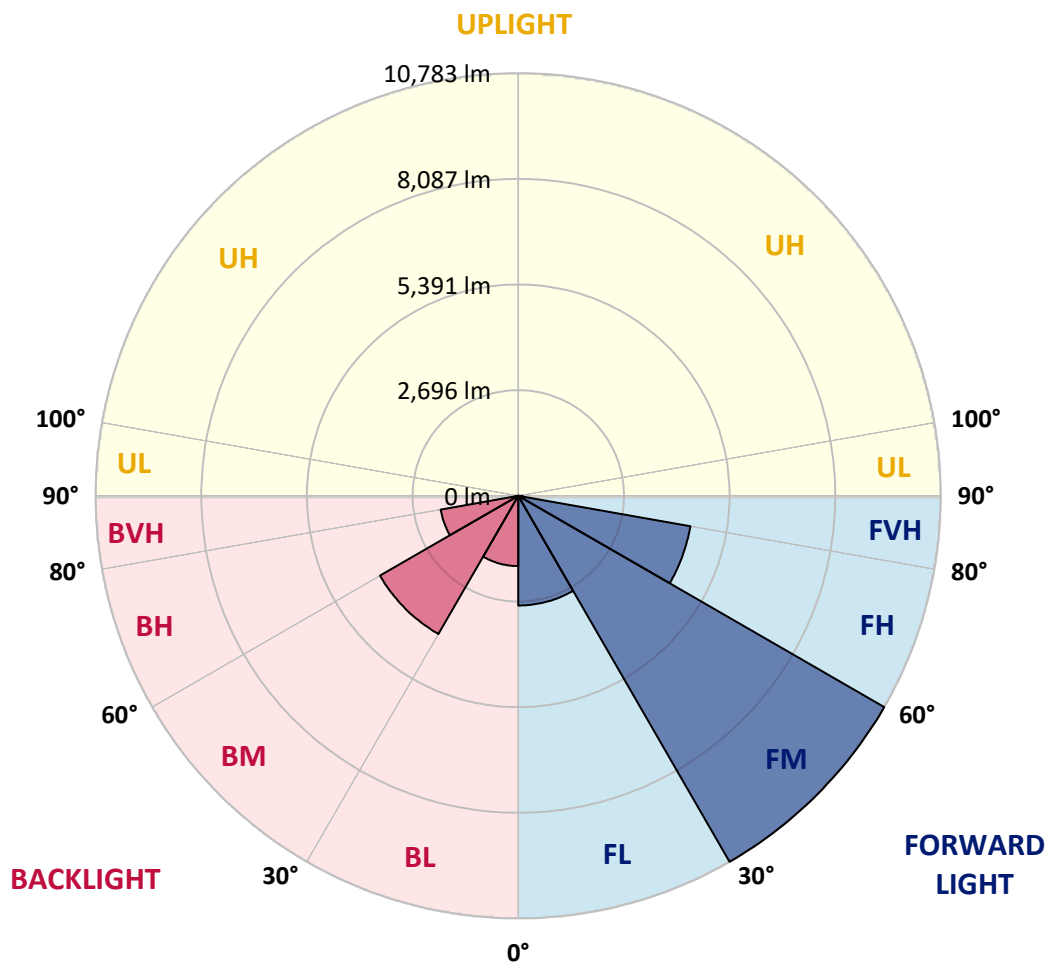
CATALOG NUMBER: ARCH4-160-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2798.8	10.7			
FM	(30°-60°)	10782.6	41.3			
FH	(60°-80°)	4461.3	17.1			G2/5000
FVH	(80°-90°)	108.2	0.4			G2/225
BL	(0°-30°)	1792.4	6.9	B3/2500		
BM	(30°-60°)	4072.8	15.6	B3/5000		
BH	(60°-80°)	2011.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	71.3	0.3			G1/100
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: P841308

CATALOG NUMBER: ARCH4-160-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3922.3	3922.3	3952.6	3952.6	3926.0	3884.4	3873.0	3827.5	3785.8	3785.8	3789.6
5°	4297.4	4293.6	4316.4	4286.1	4221.6	4138.3	4081.4	3982.9	3899.5	3873.0	3869.2
7.5°	4756.0	4752.2	4763.5	4714.3	4593.0	4456.6	4342.9	4183.7	4047.3	3990.5	3975.3
10°	5267.6	5263.8	5252.4	5169.0	5006.1	4793.9	4623.3	4403.5	4198.9	4107.9	4089.0
12.5°	5855.0	5847.4	5820.8	5699.6	5476.0	5203.1	4956.8	4672.6	4399.7	4274.7	4233.0
15°	6510.6	6499.2	6449.9	6302.1	6002.7	5657.9	5339.6	4975.8	4642.3	4479.3	4422.5
17.5°	7200.3	7200.3	7124.5	6904.7	6571.2	6143.0	5748.8	5286.5	4896.2	4695.3	4627.1
20°	7901.3	7897.6	7802.8	7537.5	7143.4	6650.8	6150.5	5642.7	5157.7	4915.1	4831.8
22.5°	8640.3	8632.7	8515.3	8212.1	7742.2	7185.1	6601.5	5995.2	5445.7	5153.9	5047.8
25°	9489.2	9477.8	9333.8	8962.4	8405.4	7776.3	7109.3	6408.2	5775.4	5419.1	5294.1
27.5°	10391.1	10376.0	10205.4	9773.4	9163.3	8405.4	7670.2	6885.7	6139.2	5714.7	5574.5
30°	11194.5	11183.2	10997.5	10554.1	9853.0	9030.6	8204.5	7363.2	6521.9	6029.3	5855.0
32.5°	11800.9	11800.9	11634.1	11198.3	10470.7	9629.4	8742.6	7814.2	6919.8	6366.6	6161.9
35°	12168.5	12179.8	12035.8	11687.2	11001.2	10194.1	9299.7	8344.7	7344.3	6726.6	6506.8
37.5°	12221.5	12259.4	12176.0	11941.1	11368.8	10664.0	9845.4	8856.3	7783.9	7090.4	6844.0
40°	11975.2	12001.7	12005.5	11914.5	11520.4	11001.2	10326.7	9398.2	8250.0	7473.1	7188.9
42.5°	11482.5	11501.5	11535.6	11562.1	11410.5	11149.0	10694.3	9902.3	8746.4	7863.4	7530.0
45°	10845.9	10842.1	10898.9	11012.6	11005.0	11065.7	10898.9	10360.8	9261.8	8306.8	7908.9
47.5°	9894.7	9875.7	10076.6	10334.3	10463.1	10747.3	10902.7	10720.8	9822.7	8795.7	8340.9
50°	8405.4	8386.4	8826.0	9432.3	9811.3	10243.3	10694.3	10936.8	10410.1	9345.2	8810.9
52.5°	6593.9	6575.0	7132.1	8193.1	9019.3	9648.4	10273.6	10986.1	10967.1	9959.1	9341.4
55°	4903.8	4888.6	5430.5	6578.8	7916.5	8958.6	9758.3	10857.2	11490.1	10664.0	9985.6
57.5°	3456.1	3448.5	3918.5	4869.7	6499.2	8117.4	9261.8	10607.1	11971.4	11429.5	10713.2
60°	2425.4	2414.0	2755.0	3490.2	4915.1	6847.8	8769.2	10273.6	12331.4	12183.6	11486.3
62.5°	1633.3	1625.7	1868.3	2482.2	3490.2	5271.4	8022.6	10050.1	12536.0	12941.5	12267.0
65°	1239.2	1235.4	1345.3	1682.6	2470.8	3785.8	6836.5	10023.5	12562.6	13510.0	12930.2
67.5°	1000.5	1004.2	1064.9	1258.2	1709.1	2690.6	5301.7	9856.8	12422.4	13703.2	13252.3
70°	818.6	818.6	845.1	973.9	1261.9	1815.2	3702.5	9098.9	12032.0	13199.2	12869.5
72.5°	625.3	629.1	712.4	788.2	951.2	1273.3	2372.3	7530.0	11111.1	11637.9	11387.8
75°	496.4	492.6	541.9	648.0	739.0	909.5	1455.2	5400.2	9455.1	9095.1	8935.9
77.5°	356.2	352.4	390.3	481.3	560.9	644.2	867.8	2724.7	5142.5	4725.6	4608.2
80°	242.5	235.0	269.1	333.5	371.4	379.0	424.4	1045.9	2243.5	2114.6	2088.1
82.5°	125.1	125.1	144.0	189.5	193.3	197.1	189.5	337.3	742.8	693.5	663.2
85°	49.3	49.3	53.1	64.4	64.4	68.2	68.2	87.2	79.6	75.8	72.0
87.5°	3.8	3.8	7.6	7.6	11.4	11.4	11.4	15.2	18.9	18.9	18.9
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: P841308

CATALOG NUMBER: ARCH4-160-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3782.0	3766.9	3717.6	3706.2	3698.7	3687.3	3691.1	3664.6	3653.2	3657.0	3641.8
5°	3850.2	3823.7	3763.1	3736.6	3729.0	3717.6	3729.0	3710.0	3691.1	3698.7	3691.1
7.5°	3945.0	3907.1	3831.3	3804.8	3801.0	3789.6	3804.8	3789.6	3774.5	3782.0	3766.9
10°	4043.5	3994.3	3910.9	3884.4	3884.4	3880.6	3895.7	3873.0	3857.8	3861.6	3854.0
12.5°	4187.5	4123.1	4032.1	4009.4	3998.0	4009.4	4013.2	3982.9	3956.4	3960.1	3948.8
15°	4361.8	4289.8	4191.3	4157.2	4149.6	4145.8	4130.7	4092.8	4058.7	4054.9	4043.5
17.5°	4551.3	4460.4	4342.9	4308.8	4274.7	4263.3	4225.4	4176.2	4123.1	4123.1	4107.9
20°	4733.2	4630.9	4490.7	4441.4	4392.2	4346.7	4282.3	4202.7	4134.5	4123.1	4107.9
22.5°	4930.3	4809.0	4646.1	4574.1	4486.9	4396.0	4286.1	4179.9	4092.8	4073.8	4062.5
25°	5150.1	4998.5	4805.2	4699.1	4558.9	4418.7	4255.7	4119.3	4017.0	3986.7	3979.1
27.5°	5392.6	5210.7	4975.8	4820.4	4615.7	4396.0	4187.5	4024.6	3899.5	3861.6	3850.2
30°	5638.9	5422.9	5131.1	4903.8	4615.7	4323.9	4062.5	3873.0	3729.0	3675.9	3668.3
32.5°	5885.3	5642.7	5271.4	4949.2	4570.3	4202.7	3899.5	3675.9	3513.0	3448.5	3463.7
35°	6180.9	5885.3	5400.2	4968.2	4494.5	4054.9	3713.8	3452.3	3285.6	3228.8	3240.1
37.5°	6487.8	6127.8	5502.5	4953.0	4388.4	3888.1	3505.4	3251.5	3043.1	2944.5	2955.9
40°	6753.1	6347.6	5574.5	4900.0	4251.9	3698.7	3300.8	2967.3	2679.3	2584.5	2573.1
42.5°	7003.2	6510.6	5612.4	4820.4	4096.6	3478.9	3009.0	2580.7	2292.7	2175.2	2179.0
45°	7264.7	6669.7	5597.3	4714.3	3903.3	3221.2	2633.8	2201.8	1947.9	1841.8	1845.5
47.5°	7564.1	6840.3	5582.1	4600.6	3668.3	2887.7	2273.8	1868.3	1648.5	1572.7	1565.1
50°	7882.4	7029.7	5563.2	4460.4	3406.9	2516.3	1917.5	1557.5	1371.8	1322.6	1311.2
52.5°	8242.4	7234.4	5551.8	4293.6	3092.3	2122.2	1599.2	1284.7	1159.6	1125.5	1121.7
55°	8674.4	7473.1	5566.9	4092.8	2713.4	1750.8	1330.2	1106.6	1023.2	1004.2	1000.5
57.5°	9201.2	7780.1	5612.4	3857.8	2315.5	1428.7	1133.1	996.7	943.6	928.5	928.5
60°	9773.4	8128.7	5695.8	3592.6	1917.5	1178.6	1004.2	909.5	886.8	905.7	905.7
62.5°	10391.1	8538.0	5843.6	3270.4	1546.2	996.7	901.9	837.5	822.3	860.2	864.0
65°	10963.4	8935.9	5938.3	2883.9	1227.8	864.0	822.3	765.5	773.1	811.0	807.2
67.5°	11315.8	9265.6	5805.7	2398.8	973.9	765.5	739.0	689.7	708.7	739.0	742.8
70°	11099.8	9079.9	5150.1	1811.4	761.7	667.0	648.0	617.7	632.9	670.8	685.9
72.5°	10042.5	8132.5	4005.6	1224.0	613.9	560.9	568.4	553.3	572.2	606.3	640.4
75°	8151.5	6146.8	2686.8	784.5	485.1	477.5	488.9	477.5	485.1	519.2	538.1
77.5°	4255.7	2997.6	1337.7	488.9	360.0	371.4	390.3	394.1	416.9	424.4	432.0
80°	1985.8	1349.1	557.1	272.9	238.7	261.5	299.4	303.2	310.7	322.1	325.9
82.5°	648.0	405.5	257.7	147.8	136.4	147.8	193.3	231.2	235.0	257.7	257.7
85°	68.2	41.7	56.8	60.6	53.1	64.4	87.2	83.4	37.9	22.7	22.7
87.5°	18.9	15.2	18.9	18.9	15.2	15.2	11.4	3.8	0.0	0.0	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)