

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: P841013

Luminaire Tested: **ARCH4-120-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841013
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: ARCH4-120-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19875 lumens
Efficiency: N/A
Efficacy: 162.9 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

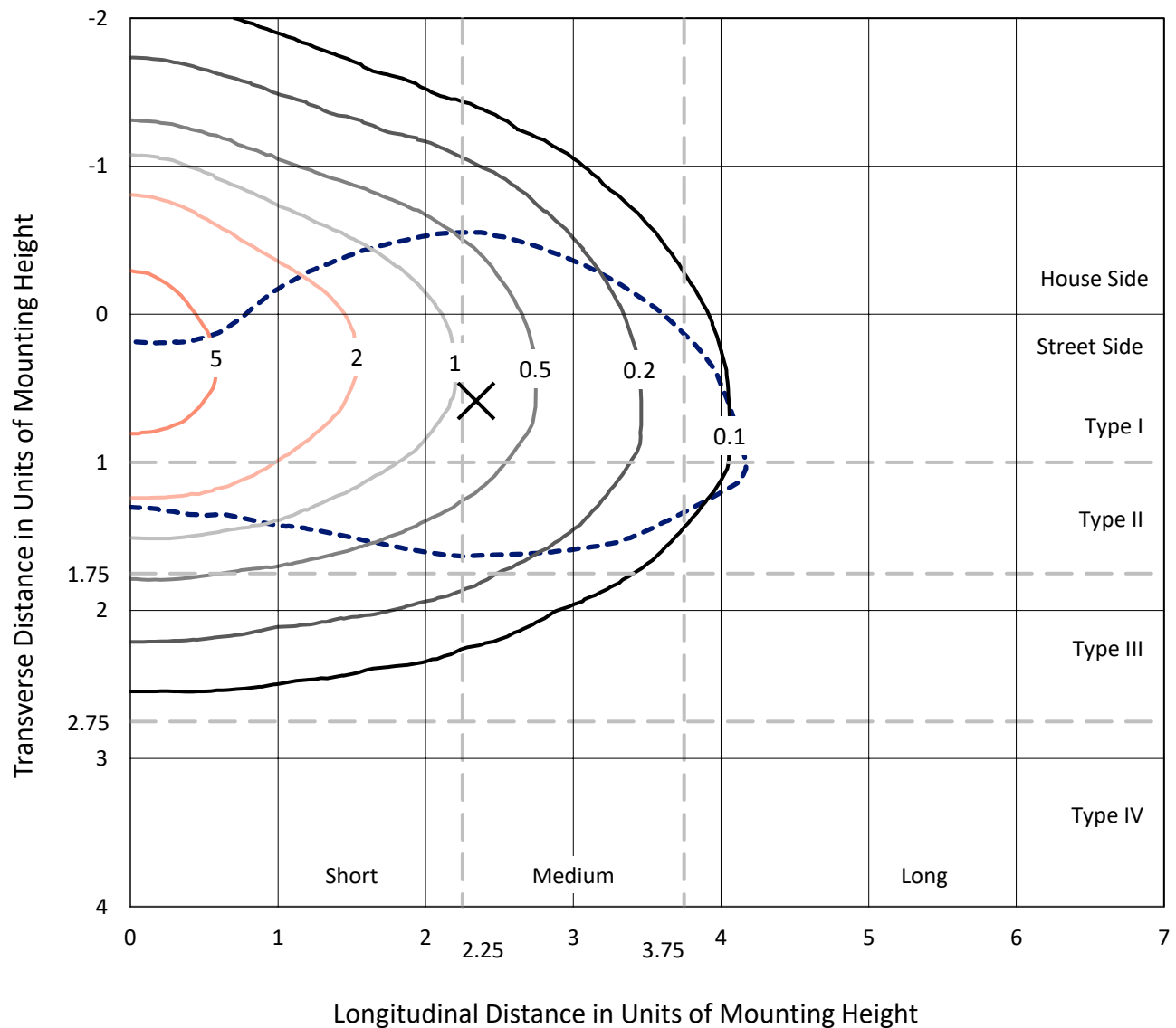
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841013
CATALOG NUMBER: ARCH4-120-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

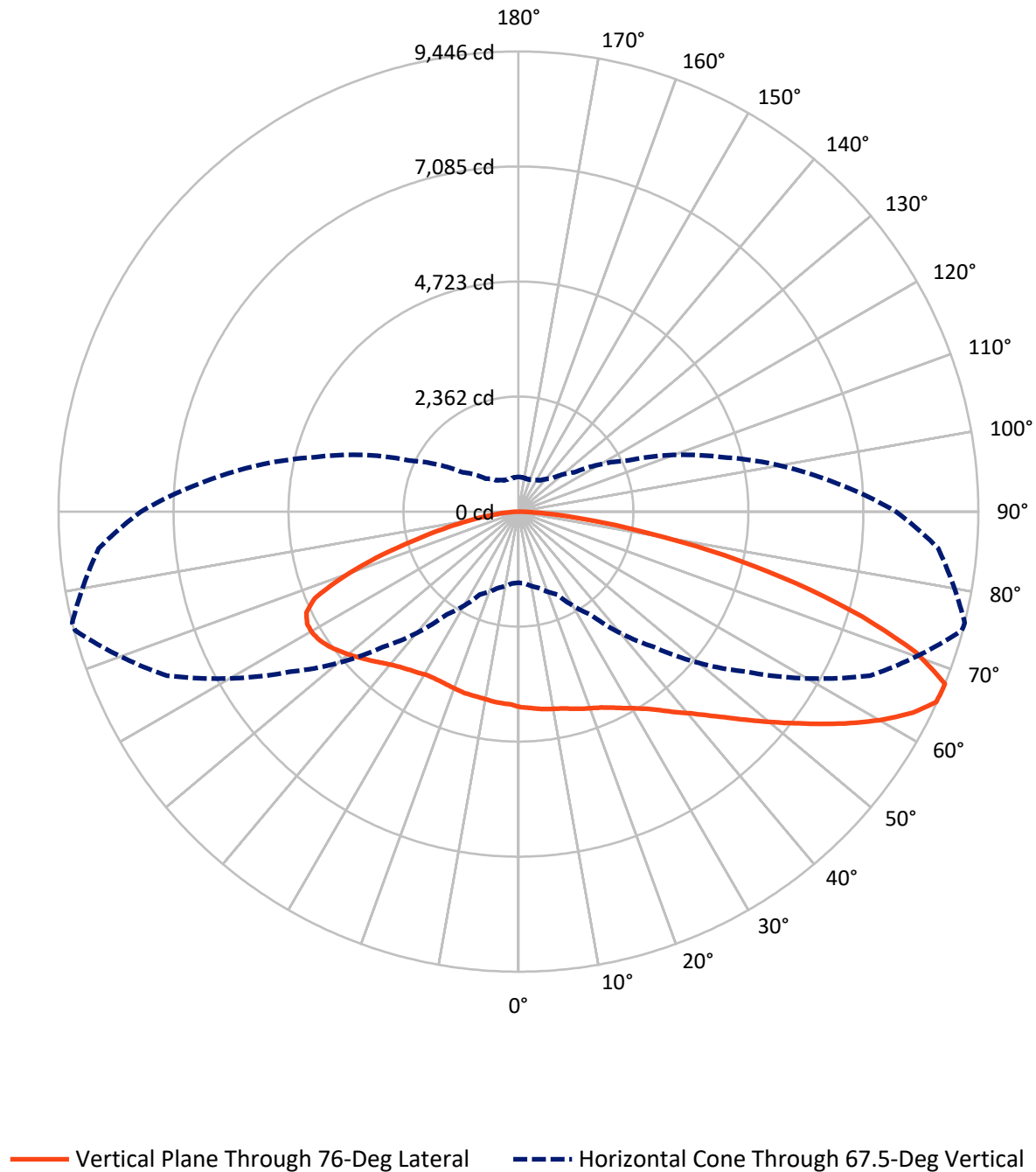
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Medium - N/A

REPORT NUMBER: P841013
CATALOG NUMBER: ARCH4-120-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841013

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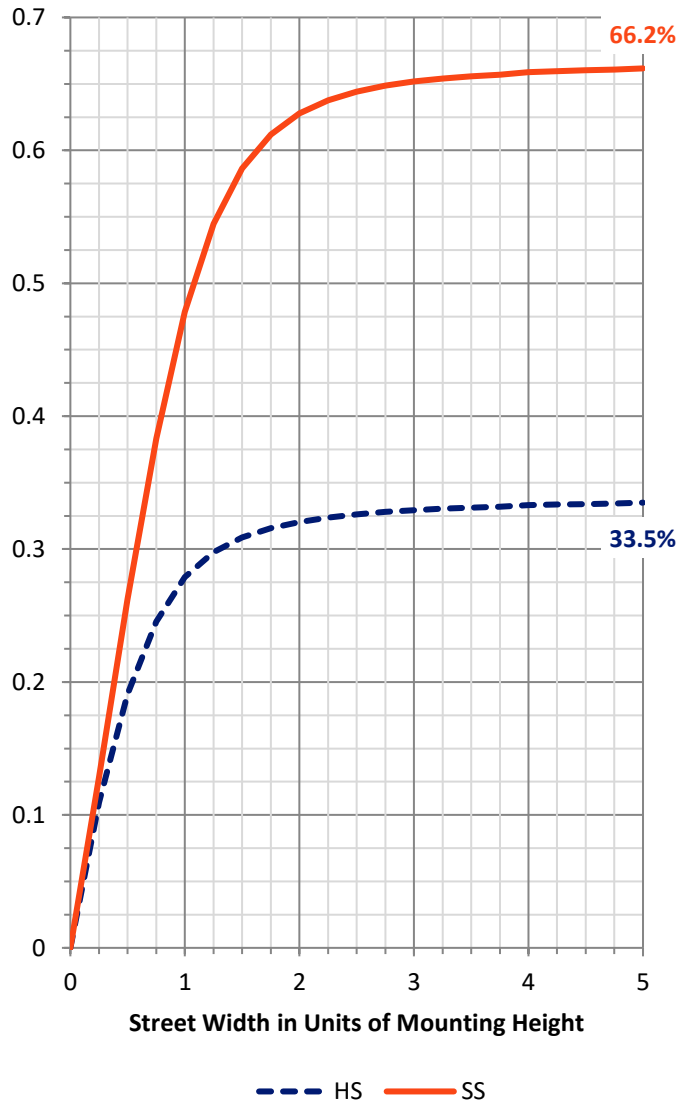
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6715.9	0.0	6715.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13159.1	0.0	13159.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	19875.0	0.0	19875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	1.9
10°-20°	1183.5	6.0
20°-30°	2010.8	10.1
30°-40°	2861.2	14.4
40°-50°	3613.5	18.2
50°-60°	3912.3	19.7
60°-70°	3638.9	18.3
70°-80°	1954.4	9.8
80°-90°	313.2	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°	19875.0	100.0
0°-180°	19875.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841013

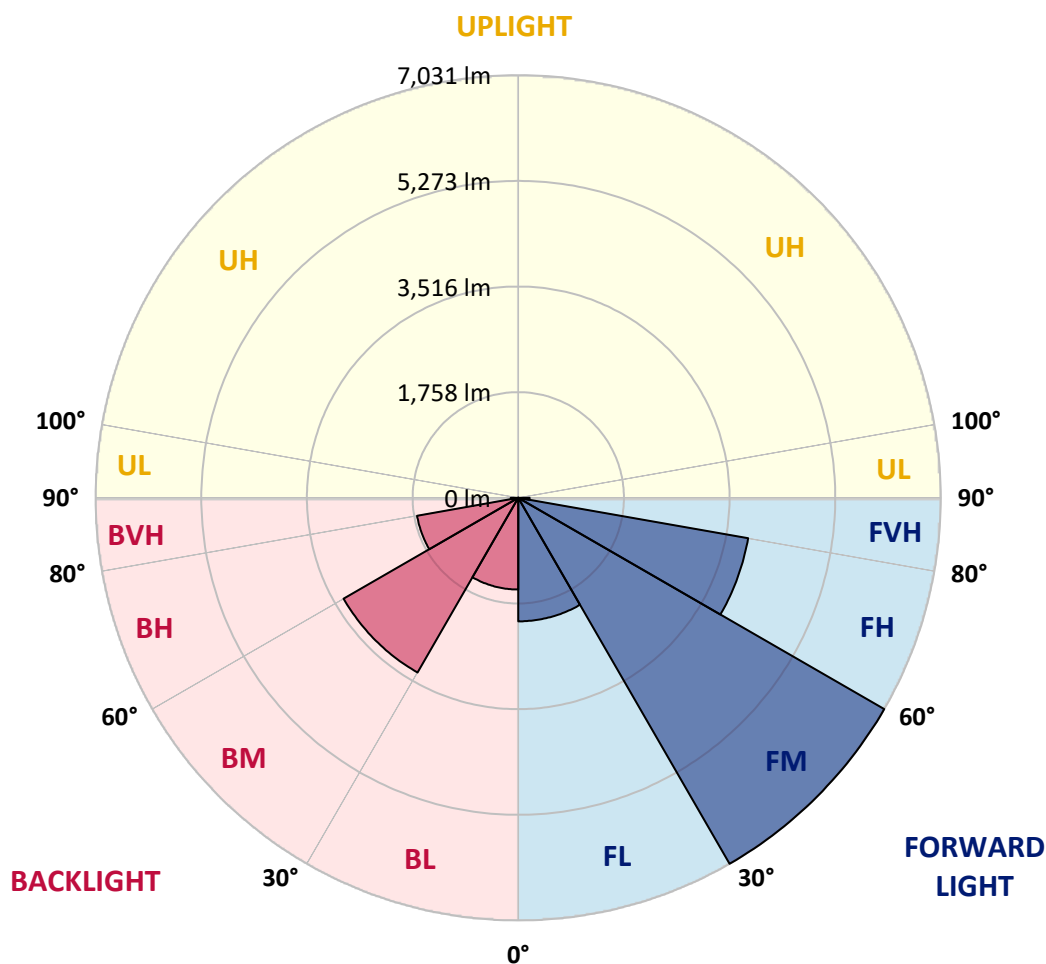
CATALOG NUMBER: ARCH4-120-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.3	10.3			
FM	(30°-60°)	7031.0	35.4			
FH	(60°-80°)	3883.4	19.5			G2/5000
FVH	(80°-90°)	189.4	1.0			G2/225
BL	(0°-30°)	1526.2	7.7	B3/2500		
BM	(30°-60°)	3356.0	16.9	B3/5000		
BH	(60°-80°)	1709.9	8.6	B3/2500		G3/2500
BVH	(80°-90°)	123.7	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: P841013

CATALOG NUMBER: ARCH4-120-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7
2.5°	4136.5	4129.1	4099.6	4103.3	4103.3	4099.6	4055.3	4036.8	4036.8	4033.2	3992.6
5°	4284.1	4273.0	4239.8	4232.4	4217.7	4199.2	4129.1	4088.5	4070.1	4066.4	4011.0
7.5°	4457.5	4442.7	4402.2	4380.0	4343.1	4295.1	4206.6	4143.9	4099.6	4095.9	4018.4
10°	4630.9	4616.2	4568.2	4527.6	4476.0	4398.5	4284.1	4191.8	4121.7	4114.3	4022.1
12.5°	4837.6	4822.8	4763.8	4712.1	4634.6	4531.3	4380.0	4254.6	4158.6	4147.5	4033.2
15°	5055.3	5033.1	4974.1	4915.1	4819.1	4686.3	4505.5	4339.4	4217.7	4199.2	4066.4
17.5°	5236.1	5206.6	5158.6	5099.6	4992.6	4837.6	4630.9	4424.3	4273.0	4258.2	4099.6
20°	5391.1	5368.9	5317.3	5261.9	5147.5	4977.8	4749.0	4509.2	4324.7	4306.2	4125.4
22.5°	5538.7	5509.2	5479.6	5439.0	5313.6	5125.4	4885.5	4612.5	4391.1	4368.9	4158.6
25°	5708.4	5675.2	5664.1	5642.0	5494.4	5302.5	5051.6	4741.6	4483.3	4457.5	4217.7
27.5°	5918.7	5881.8	5859.7	5859.7	5682.6	5483.3	5228.7	4892.9	4590.3	4568.2	4291.5
30°	6140.1	6095.9	6062.6	6062.6	5863.4	5664.1	5402.1	5044.2	4712.1	4686.3	4387.4
32.5°	6335.7	6291.4	6254.5	6250.8	6044.2	5844.9	5583.0	5210.3	4859.7	4826.5	4505.5
35°	6487.0	6446.4	6413.2	6420.6	6225.0	6029.4	5785.9	5431.7	5044.2	5007.3	4660.5
37.5°	6579.2	6564.5	6546.0	6571.9	6391.1	6206.6	5996.2	5645.7	5254.5	5221.3	4852.3
40°	6627.2	6616.1	6689.9	6723.2	6531.3	6365.2	6206.6	5867.1	5483.3	5446.4	5073.7
42.5°	6697.3	6789.6	6819.1	6811.7	6634.6	6487.0	6398.4	6106.9	5752.7	5719.5	5339.4
45°	6446.4	6424.3	6586.6	6675.2	6642.0	6564.5	6579.2	6394.7	6066.3	6033.1	5645.7
47.5°	6110.6	6081.1	6173.3	6391.1	6520.2	6594.0	6741.6	6693.6	6428.0	6398.4	6003.6
50°	5402.1	5442.7	5785.9	6077.4	6332.0	6586.6	6878.1	7014.7	6826.5	6797.0	6387.4
52.5°	4616.2	4656.8	5014.7	5686.3	6103.2	6531.3	6977.8	7335.7	7258.2	7225.0	6797.0
55°	4044.2	4132.8	4538.7	5025.8	5778.5	6357.8	7036.8	7664.1	7723.1	7693.6	7243.4
57.5°	3476.0	3542.4	3848.7	4280.4	5335.7	6055.3	7033.1	7970.4	8210.2	8180.7	7697.3
60°	2808.1	2892.9	3136.5	3601.4	4745.3	5693.7	6929.8	8210.2	8678.8	8656.7	8136.4
62.5°	2350.5	2376.4	2549.8	2952.0	3985.2	5236.1	6697.3	8339.4	9103.2	9088.4	8531.3
65°	1893.0	1896.7	2055.3	2391.1	3250.9	4667.8	6302.5	8291.4	9424.2	9431.6	8815.4
67.5°	1461.2	1479.7	1623.6	1878.2	2583.0	3929.8	5737.9	7966.7	9427.9	9446.4	8653.0
70°	1011.1	1025.8	1243.5	1490.8	1996.3	3132.8	4974.1	7106.9	8653.0	8667.8	7756.4
72.5°	712.2	719.5	952.0	1191.9	1560.9	2361.6	3752.7	5878.1	7376.3	7387.4	6523.9
75°	531.4	538.7	671.6	904.0	1195.6	1634.7	2564.5	4501.8	5892.9	5892.9	5151.2
77.5°	376.4	380.1	435.4	623.6	797.0	1103.3	1542.4	2948.3	4324.7	4332.0	3752.7
80°	254.6	258.3	284.1	420.7	498.1	597.8	837.6	1546.1	2726.9	2738.0	2383.7
82.5°	132.8	140.2	158.7	214.0	250.9	332.1	431.7	786.0	1509.2	1538.7	1431.7
85°	51.7	51.7	59.0	70.1	92.2	129.1	199.3	298.9	682.6	704.8	631.0
87.5°	18.4	18.4	22.1	22.1	25.8	29.5	33.2	44.3	77.5	77.5	73.8
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: P841013

CATALOG NUMBER: ARCH4-120-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7
2.5°	3977.8	3977.8	3959.4	3966.7	3963.0	3955.7	3948.3	3959.4	3948.3	3922.5	3918.8
5°	3985.2	3977.8	3948.3	3944.6	3933.5	3918.8	3900.3	3907.7	3889.2	3867.1	3863.4
7.5°	3988.9	3974.1	3933.5	3918.8	3896.6	3867.1	3837.6	3837.6	3811.8	3789.6	3785.9
10°	3981.5	3963.0	3907.7	3878.2	3837.6	3793.3	3752.7	3741.6	3712.1	3686.3	3686.3
12.5°	3985.2	3959.4	3889.2	3841.3	3785.9	3730.6	3678.9	3664.2	3638.3	3612.5	3608.8
15°	4007.3	3970.4	3881.9	3819.1	3738.0	3675.2	3619.9	3608.8	3586.7	3568.2	3568.2
17.5°	4029.5	3981.5	3870.8	3782.2	3682.6	3612.5	3560.8	3560.8	3546.1	3535.0	3535.0
20°	4040.5	3985.2	3848.7	3730.6	3616.2	3542.4	3494.4	3501.8	3498.1	3494.4	3494.4
22.5°	4066.4	3992.6	3830.2	3682.6	3546.1	3468.6	3424.3	3435.4	3431.7	3431.7	3435.4
25°	4107.0	4011.0	3815.4	3638.3	3479.7	3394.8	3346.8	3354.2	3354.2	3354.2	3354.2
27.5°	4162.3	4047.9	3811.8	3597.7	3413.2	3317.3	3258.3	3258.3	3243.5	3247.2	3250.9
30°	4247.2	4118.0	3819.1	3560.8	3343.1	3221.4	3151.2	3140.2	3136.5	3143.9	3147.6
32.5°	4350.5	4214.0	3863.4	3535.0	3269.3	3114.3	3025.8	3022.1	3011.0	3011.0	3011.0
35°	4479.6	4306.2	3904.0	3531.3	3195.5	3000.0	2904.0	2892.9	2867.1	2856.1	2856.1
37.5°	4645.7	4450.1	3952.0	3505.5	3132.8	2889.3	2774.9	2738.0	2708.5	2704.8	2704.8
40°	4848.6	4612.5	4022.1	3476.0	3066.4	2774.9	2623.6	2560.9	2564.5	2579.3	2579.3
42.5°	5088.5	4811.7	4110.6	3461.2	2970.4	2656.8	2446.5	2372.7	2398.5	2413.3	2416.9
45°	5368.9	5047.9	4210.3	3442.8	2881.9	2524.0	2258.3	2166.0	2177.1	2180.8	2184.5
47.5°	5693.7	5309.9	4313.6	3428.0	2782.3	2357.9	2051.6	1929.9	1926.2	1904.0	1911.4
50°	6033.1	5586.6	4420.6	3402.2	2660.5	2162.3	1833.9	1690.0	1660.5	1627.3	1631.0
52.5°	6394.7	5870.8	4520.2	3361.6	2509.2	1963.1	1627.3	1472.3	1413.3	1376.4	1383.7
55°	6793.3	6162.3	4616.2	3298.8	2350.5	1763.8	1442.8	1284.1	1210.3	1180.8	1184.5
57.5°	7158.6	6442.7	4686.3	3221.4	2177.1	1583.0	1280.4	1125.4	1077.5	1073.8	1077.5
60°	7512.8	6678.9	4715.8	3114.3	2000.0	1417.0	1129.1	1011.1	977.8	996.3	1000.0
62.5°	7811.7	6830.2	4701.0	2970.4	1819.2	1258.3	1007.4	922.5	900.4	937.3	940.9
65°	7985.1	6878.1	4597.7	2763.8	1623.6	1103.3	893.0	800.7	789.7	811.8	822.9
67.5°	7756.4	6579.2	4317.3	2479.7	1405.9	959.4	782.3	708.5	690.0	708.5	708.5
70°	6874.4	5701.0	3653.1	2029.5	1166.0	819.2	679.0	627.3	612.5	627.3	623.6
72.5°	5726.9	4741.6	2878.2	1583.0	918.8	690.0	590.4	542.4	527.7	512.9	505.5
75°	4442.7	3601.4	2088.5	1162.3	693.7	553.5	494.5	450.2	413.3	428.0	420.7
77.5°	3254.6	2527.6	1479.7	804.4	498.1	428.0	387.4	354.2	328.4	357.9	354.2
80°	2095.9	1634.7	988.9	538.7	343.2	298.9	284.1	265.7	291.5	380.1	387.4
82.5°	1280.4	1036.9	590.4	350.5	225.1	199.3	184.5	184.5	298.9	328.4	332.1
85°	571.9	549.8	321.0	180.8	125.5	114.4	103.3	132.8	121.8	88.6	92.2
87.5°	92.2	95.9	70.1	62.7	48.0	48.0	36.9	25.8	18.4	11.1	11.1
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)