

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: P836464

Luminaire Tested: **ARCH3-190-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23803 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

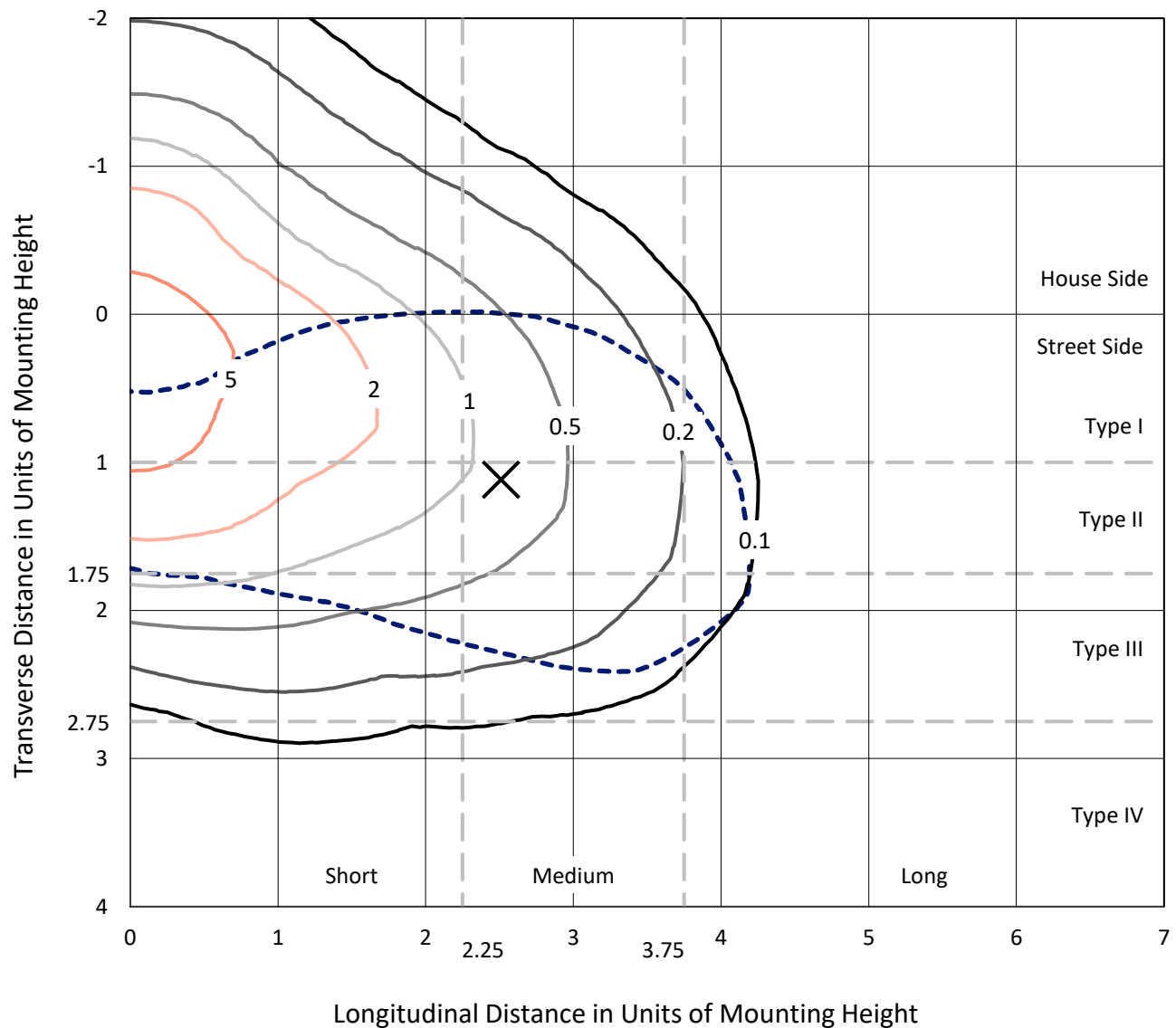


REPORT NUMBER: P836464

CATALOG NUMBER: ARCH3-190-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

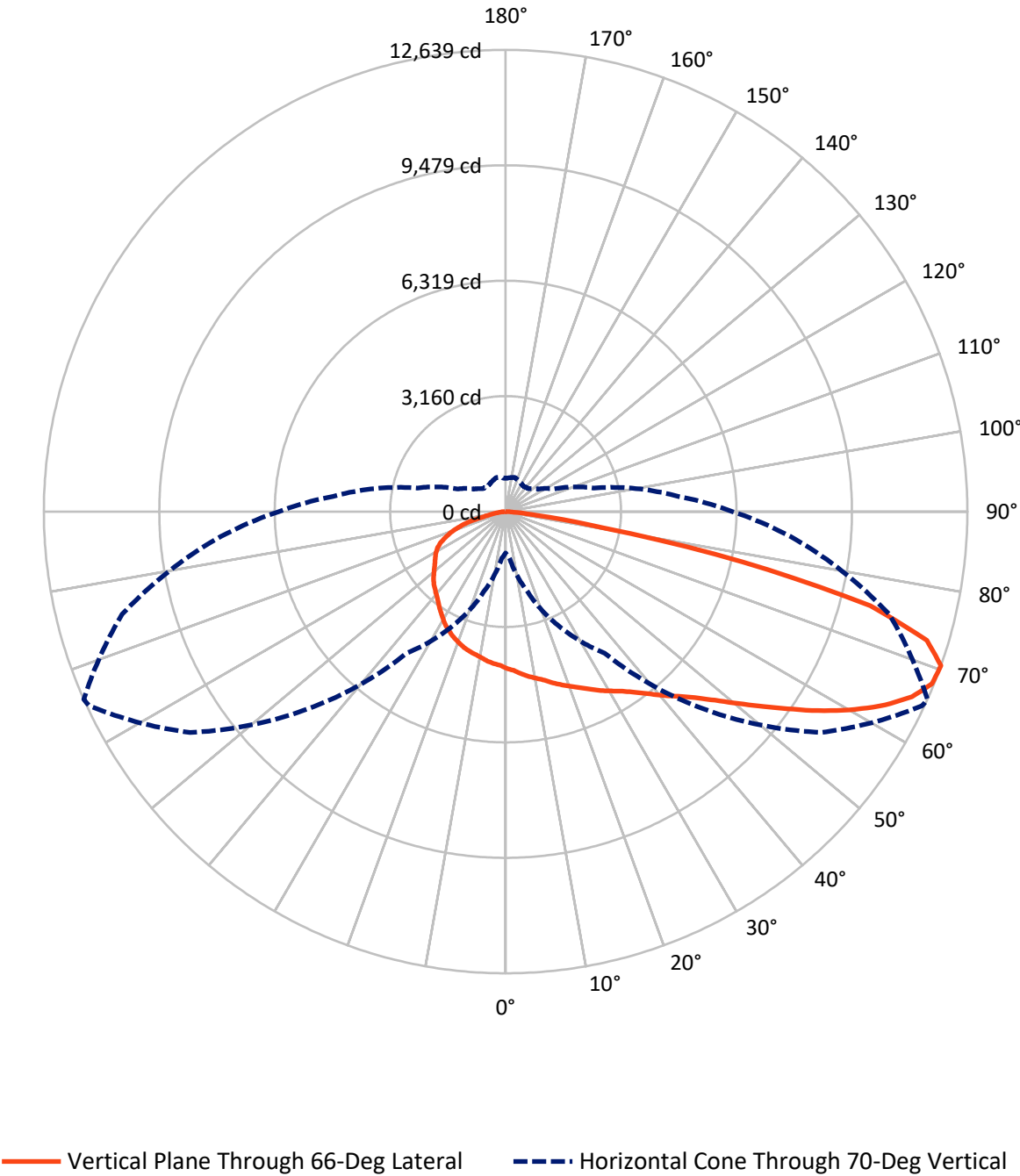
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Medium - N/A

REPORT NUMBER: P836464
CATALOG NUMBER: ARCH3-190-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P836464

CATALOG NUMBER: ARCH3-190-727-U-T3

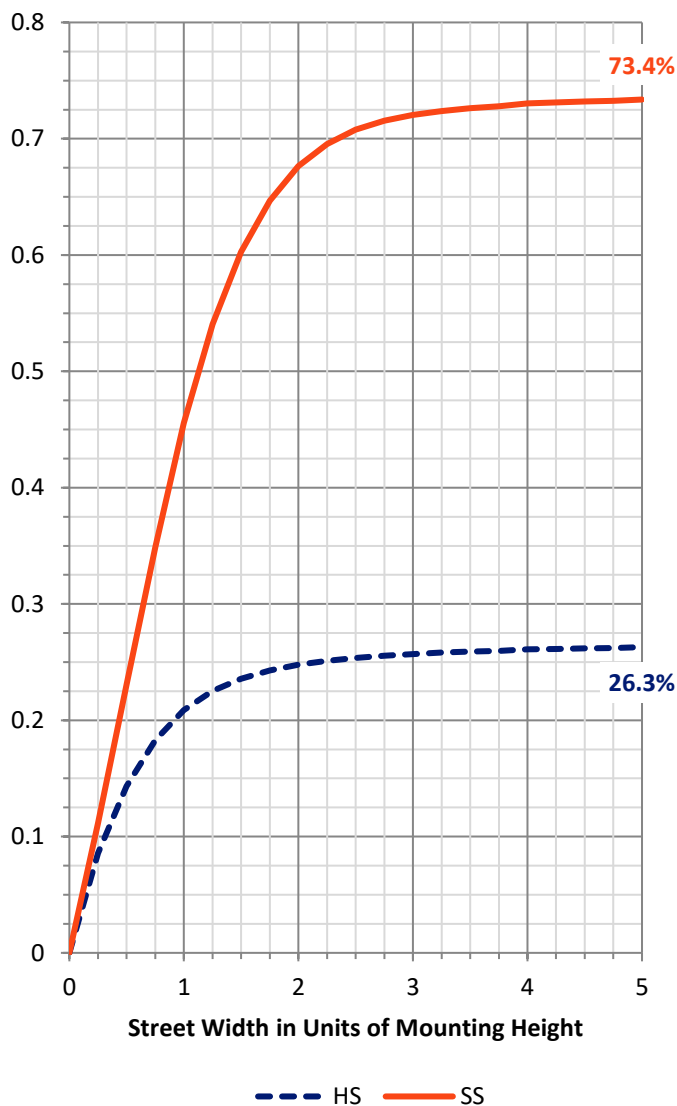
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6307.2	0.0	6307.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	17495.8	0.0	17495.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	23803.0	0.0	23803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.7
10°-20°	1238.2	5.2
20°-30°	2075.7	8.7
30°-40°	3108.0	13.1
40°-50°	4155.3	17.5
50°-60°	4851.5	20.4
60°-70°	4824.1	20.3
70°-80°	2855.9	12.0
80°-90°	281.5	1.2
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°	23803.0	100.0
0°-180°	23803.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836464

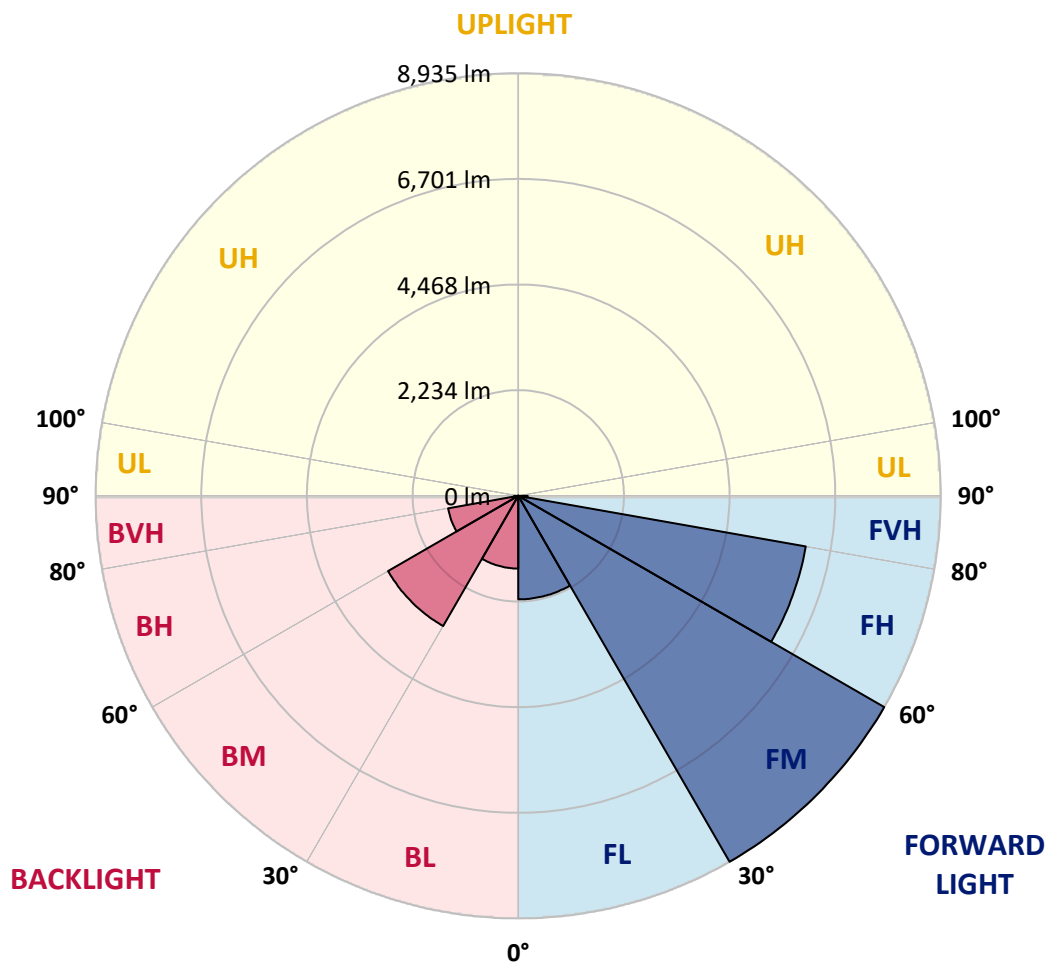
CATALOG NUMBER: ARCH3-190-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2189.2	9.2			
FM	(30°-60°)	8935.3	37.5			
FH	(60°-80°)	6173.4	25.9			G3/7500
FVH	(80°-90°)	197.8	0.8			G2/225
BL	(0°-30°)	1537.4	6.5	B3/2500		
BM	(30°-60°)	3179.5	13.4	B3/5000		
BH	(60°-80°)	1506.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	83.7	0.4			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 III Medium



REPORT NUMBER: P836464

CATALOG NUMBER: ARCH3-190-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9
2.5°	4453.8	4446.8	4443.3	4429.3	4397.7	4411.7	4380.1	4359.1	4355.6	4306.4	4278.4
5°	4636.3	4632.8	4625.8	4604.8	4555.6	4562.6	4510.0	4471.4	4460.9	4383.6	4324.0
7.5°	4790.8	4783.8	4780.2	4752.2	4699.5	4696.0	4632.8	4576.7	4559.1	4453.8	4362.6
10°	4910.1	4899.6	4906.6	4878.5	4822.4	4811.8	4731.1	4657.4	4639.9	4506.5	4380.1
12.5°	5011.9	5004.9	5015.4	4990.8	4945.2	4934.7	4853.9	4759.2	4738.1	4583.7	4418.7
15°	5124.2	5099.6	5120.7	5110.2	5078.6	5075.1	5001.4	4896.1	4868.0	4682.0	4478.4
17.5°	5183.9	5169.8	5194.4	5197.9	5183.9	5208.4	5138.2	5011.9	4987.3	4773.2	4531.1
20°	5226.0	5204.9	5233.0	5254.1	5264.6	5313.7	5257.6	5134.7	5106.6	4861.0	4580.2
22.5°	5369.9	5324.2	5327.8	5341.8	5348.8	5419.0	5383.9	5264.6	5236.5	4969.8	4639.9
25°	5731.4	5640.1	5580.5	5538.3	5489.2	5548.9	5527.8	5412.0	5387.4	5099.6	4713.6
27.5°	6292.9	6177.1	6057.8	5934.9	5741.9	5717.3	5682.2	5576.9	5548.9	5229.5	4787.3
30°	6931.7	6815.9	6675.5	6478.9	6117.4	5927.9	5847.2	5731.4	5699.8	5345.3	4857.5
32.5°	7567.0	7465.2	7324.8	7086.1	6570.2	6184.1	6012.2	5892.8	5861.2	5471.7	4941.7
35°	8061.8	7998.7	7907.4	7609.1	7019.4	6486.0	6250.8	6106.9	6071.8	5671.7	5096.1
37.5°	8461.9	8416.3	8339.1	8026.7	7345.8	6787.8	6524.6	6359.6	6321.0	5889.3	5261.1
40°	9051.6	8932.2	8869.1	8416.3	7630.1	7061.6	6833.4	6661.5	6619.3	6121.0	5394.4
42.5°	9553.5	9465.7	9388.5	8763.8	7900.4	7296.7	7124.7	6966.8	6910.6	6349.1	5538.3
45°	9637.7	9672.8	9634.2	8935.8	8328.6	7528.4	7419.6	7317.8	7265.1	6657.9	5755.9
47.5°	9641.2	9641.2	9413.1	9034.0	8858.5	7788.1	7735.4	7770.5	7714.4	7051.0	6015.7
50°	9388.5	9434.1	9314.8	9058.6	8998.9	8047.8	8121.5	8311.0	8254.9	7468.7	6296.4
52.5°	8865.6	9016.5	9013.0	9020.0	8795.4	8268.9	8528.6	8960.3	8865.6	7939.0	6594.8
55°	7942.5	8244.3	8514.6	8746.2	8619.9	8402.3	9027.0	9651.7	9553.5	8465.4	6896.6
57.5°	7152.8	7345.8	7682.8	8339.1	8412.8	8518.1	9493.8	10374.7	10287.0	9048.1	7212.5
60°	6250.8	6517.6	6854.5	7788.1	8160.1	8669.0	10006.2	11080.2	10996.0	9637.7	7517.8
62.5°	4864.5	5208.4	5882.3	6942.2	7791.6	8763.8	10409.8	11701.4	11662.8	10195.7	7791.6
65°	3390.4	3695.7	4639.9	5903.4	7205.5	8721.7	10732.7	12255.9	12220.9	10652.0	7984.6
67.5°	1979.5	2334.0	3400.9	4752.2	6170.1	8430.4	10838.0	12582.4	12582.4	10929.3	8037.3
70°	1130.1	1295.1	2242.7	3464.1	4731.1	7626.6	10543.2	12578.8	12638.5	10866.1	7819.7
72.5°	789.7	863.4	1509.2	2330.5	3207.9	6170.1	9771.1	11971.7	12052.4	10269.4	7075.6
75°	614.2	666.8	1063.4	1589.9	2021.6	4190.6	8082.9	10094.0	10308.1	8753.2	5720.8
77.5°	466.8	505.4	621.2	993.3	1295.1	2407.7	5334.8	6619.3	6633.4	5359.3	3067.5
80°	340.4	379.0	414.1	607.2	687.9	1126.6	2014.6	2765.7	2688.4	2593.7	1660.1
82.5°	203.6	242.2	252.7	329.9	336.9	480.8	705.5	891.5	856.4	1140.7	779.2
85°	87.7	122.8	129.9	150.9	143.9	196.5	280.8	235.2	210.6	242.2	168.5
87.5°	21.1	35.1	35.1	38.6	31.6	49.1	52.6	38.6	35.1	42.1	42.1
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: P836464

CATALOG NUMBER: ARCH3-190-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9	4295.9
2.5°	4271.3	4260.8	4264.3	4204.6	4187.1	4169.5	4159.0	4152.0	4145.0	4155.5	4166.0
5°	4302.9	4278.4	4250.3	4162.5	4127.4	4088.8	4060.7	4036.2	4025.7	4025.7	4036.2
7.5°	4327.5	4285.4	4225.7	4109.9	4046.7	3994.1	3948.4	3916.8	3899.3	3899.3	3909.8
10°	4331.0	4271.3	4176.6	4036.2	3951.9	3874.7	3822.1	3787.0	3762.4	3762.4	3769.4
12.5°	4352.1	4271.3	4148.5	3980.0	3874.7	3780.0	3716.8	3664.1	3653.6	3653.6	3660.6
15°	4387.2	4288.9	4130.9	3930.9	3804.5	3695.7	3625.5	3569.4	3548.3	3562.4	3565.9
17.5°	4418.7	4299.4	4099.4	3867.7	3716.8	3597.5	3520.3	3471.1	3443.0	3474.6	3474.6
20°	4439.8	4299.4	4053.7	3787.0	3622.0	3488.7	3415.0	3355.3	3334.2	3372.8	3376.4
22.5°	4471.4	4295.9	4004.6	3706.3	3520.3	3379.9	3306.2	3260.5	3250.0	3292.1	3306.2
25°	4506.5	4302.9	3951.9	3615.0	3407.9	3271.1	3214.9	3193.8	3200.9	3253.5	3271.1
27.5°	4545.1	4317.0	3899.3	3513.2	3285.1	3162.3	3130.7	3141.2	3169.3	3236.0	3257.0
30°	4580.2	4320.5	3825.6	3393.9	3144.7	3028.9	3042.9	3088.6	3130.7	3197.4	3221.9
32.5°	4625.8	4324.0	3748.4	3264.0	2993.8	2909.6	2972.7	3046.4	3088.6	3151.7	3179.8
35°	4738.1	4383.6	3688.7	3137.7	2853.4	2807.8	2913.1	3007.8	3032.4	3088.6	3113.1
37.5°	4868.0	4481.9	3657.1	3007.8	2716.5	2706.0	2839.4	2934.1	2941.1	2976.2	3000.8
40°	4948.7	4524.0	3622.0	2899.0	2593.7	2600.7	2737.6	2811.3	2797.2	2821.8	2839.4
42.5°	5029.4	4538.1	3548.3	2807.8	2477.9	2484.9	2590.2	2642.8	2649.8	2702.5	2727.1
45°	5166.3	4576.7	3467.6	2723.5	2372.6	2348.0	2411.2	2481.4	2572.6	2674.4	2702.5
47.5°	5348.8	4657.4	3383.4	2621.8	2270.8	2190.1	2214.6	2337.5	2432.2	2527.0	2544.5
50°	5534.8	4738.1	3306.2	2498.9	2169.0	2021.6	2032.1	2144.4	2221.7	2295.4	2305.9
52.5°	5717.3	4808.3	3239.5	2383.1	2053.2	1821.5	1863.7	1979.5	2032.1	2067.2	2077.8
55°	5899.8	4868.0	3179.8	2284.8	1919.8	1663.6	1702.2	1811.0	1863.7	1881.2	1888.2
57.5°	6089.4	4938.2	3134.2	2200.6	1768.9	1523.2	1547.8	1625.0	1674.1	1695.2	1688.2
60°	6247.3	4997.8	3109.6	2112.9	1618.0	1393.4	1386.3	1456.5	1526.7	1547.8	1540.8
62.5°	6370.1	5036.5	3071.0	2000.5	1484.6	1263.5	1228.4	1319.7	1393.4	1407.4	1417.9
65°	6436.8	5040.0	2976.2	1856.6	1347.7	1123.1	1098.5	1189.8	1235.4	1249.5	1249.5
67.5°	6426.3	4983.8	2790.2	1663.6	1221.4	996.8	975.7	1031.9	1098.5	1109.1	1098.5
70°	6208.7	4752.2	2491.9	1460.0	1070.5	884.4	845.8	902.0	965.2	926.6	909.0
72.5°	5591.0	4152.0	2053.2	1235.4	902.0	744.1	726.5	782.7	786.2	793.2	775.6
75°	4411.7	3092.1	1537.3	961.7	730.0	624.7	621.2	610.7	624.7	652.8	631.7
77.5°	2316.4	1544.3	831.8	589.6	530.0	501.9	477.3	473.8	515.9	533.5	512.4
80°	1256.5	866.9	477.3	354.5	322.9	326.4	358.0	351.0	396.6	407.1	389.6
82.5°	547.5	410.6	235.2	214.1	214.1	210.6	221.1	245.7	294.8	294.8	235.2
85°	119.3	101.8	91.3	105.3	119.3	119.3	119.3	119.3	84.2	45.6	31.6
87.5°	38.6	38.6	38.6	42.1	45.6	45.6	38.6	28.1	17.5	3.5	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)