

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: P836183

Luminaire Tested: **ARCH3-150-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21454 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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



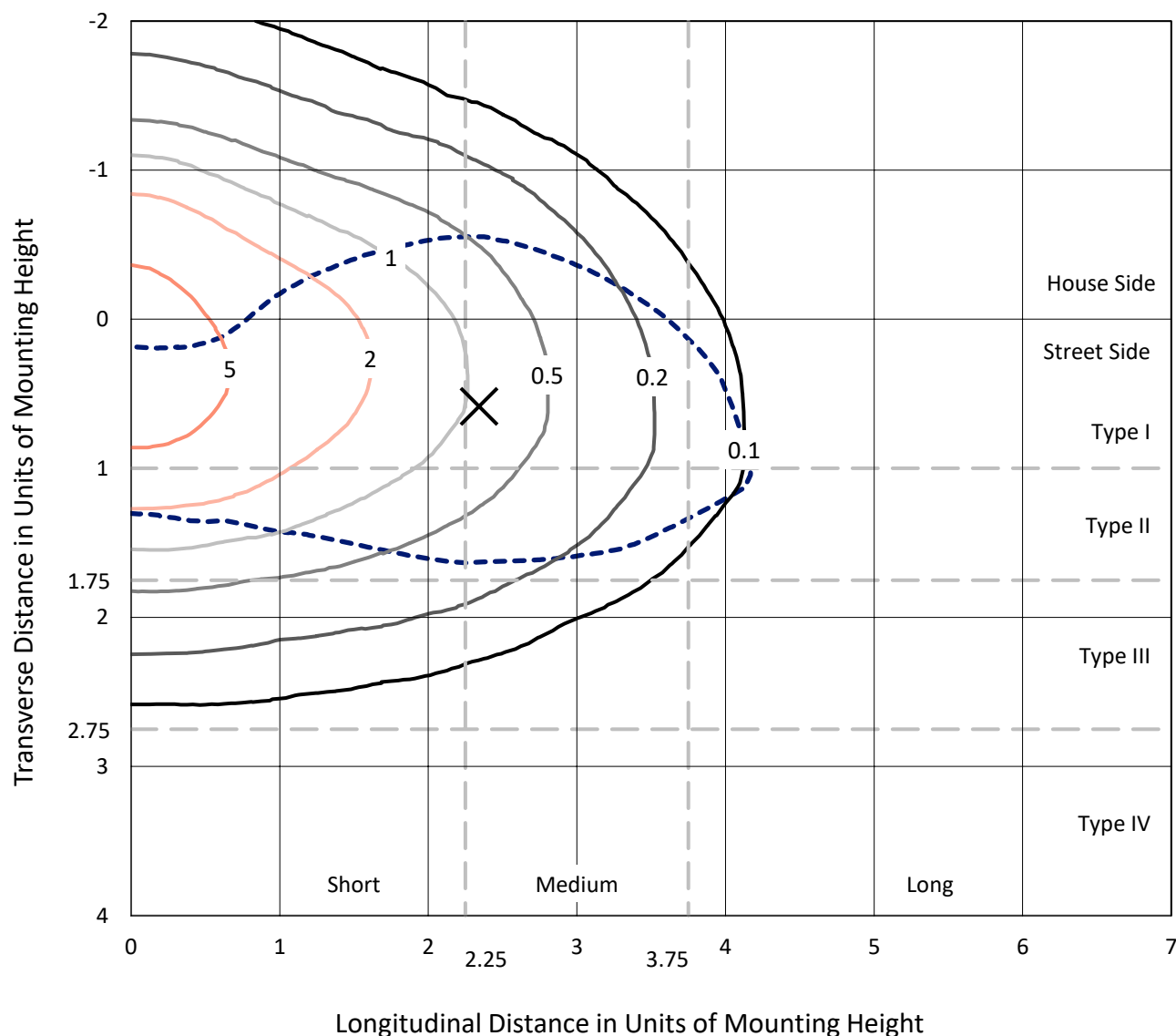
REPORT NUMBER: P836183

CATALOG NUMBER: ARCH3-150-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

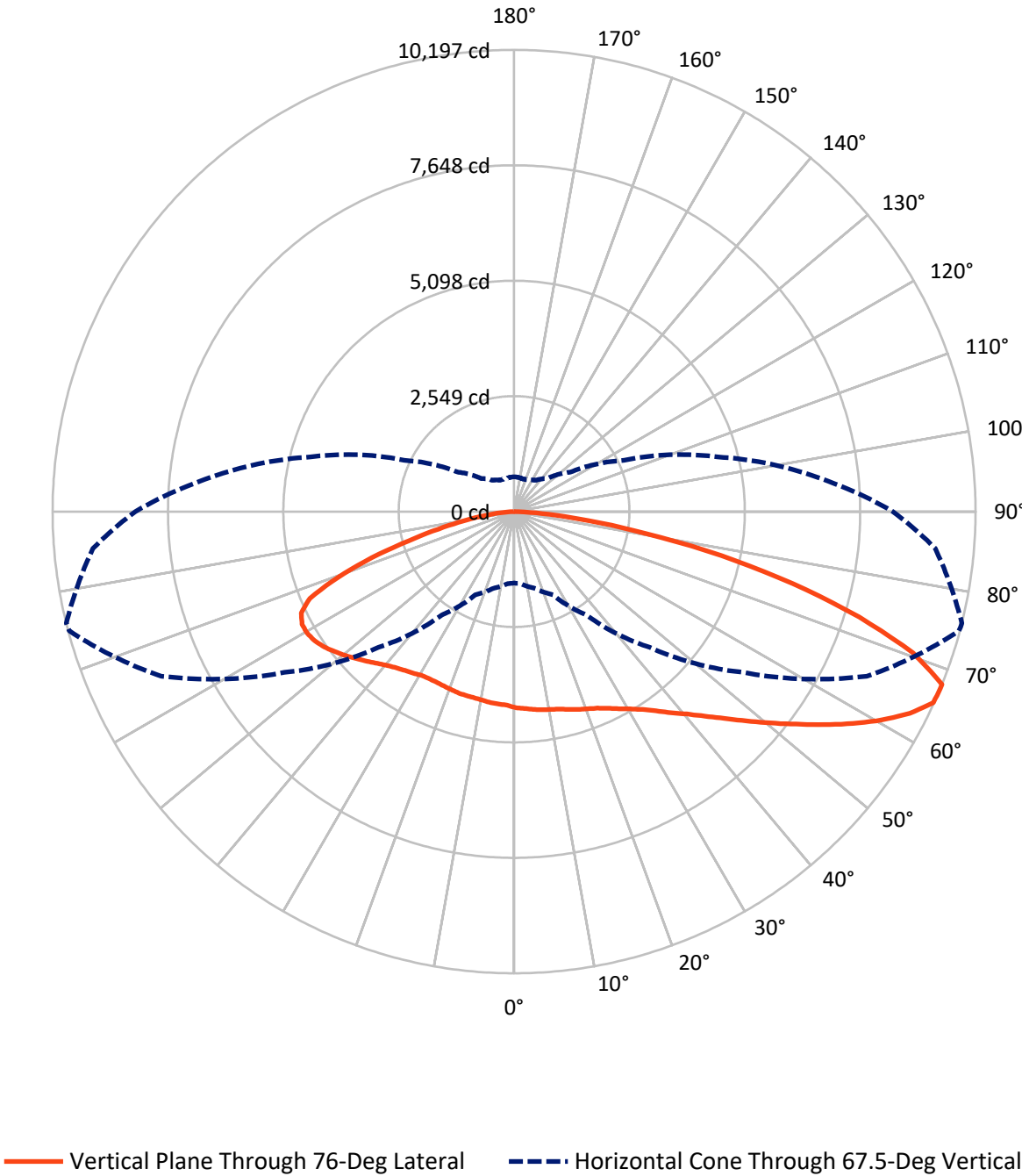
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

REPORT NUMBER: P836183
CATALOG NUMBER: ARCH3-150-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P836183

CATALOG NUMBER: ARCH3-150-730-U-T2U

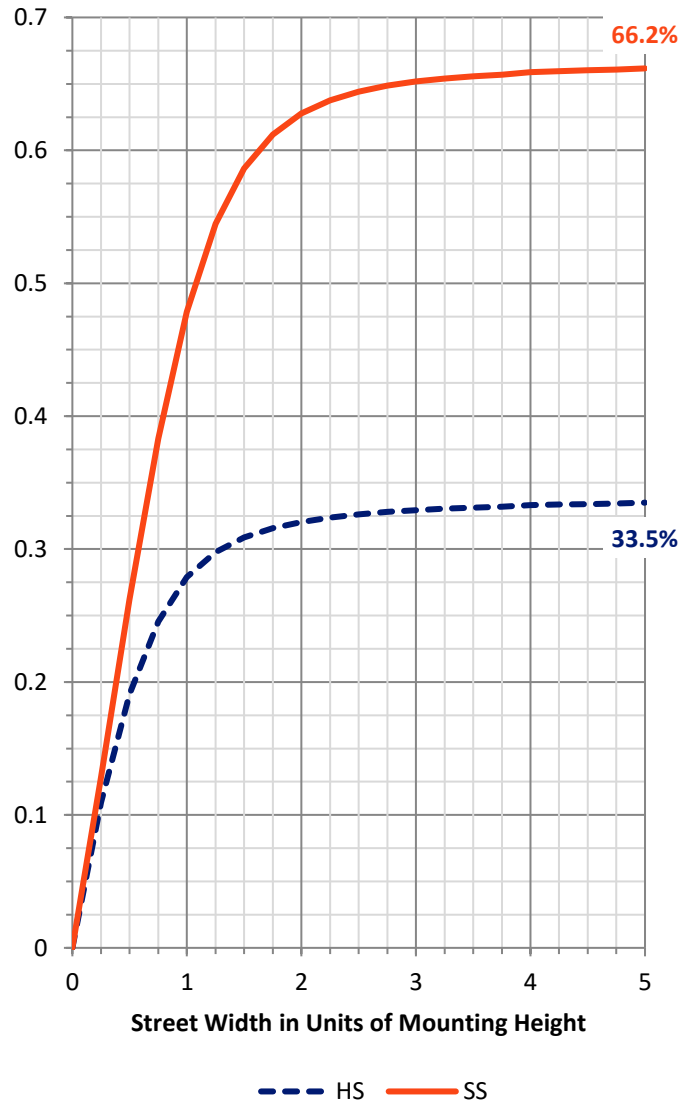
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7249.4	0.0	7249.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14204.6	0.0	14204.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	21454.0	0.0	21454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.9
10°-20°	1277.5	6.0
20°-30°	2170.6	10.1
30°-40°	3088.5	14.4
40°-50°	3900.6	18.2
50°-60°	4223.2	19.7
60°-70°	3928.0	18.3
70°-80°	2109.7	9.8
80°-90°	338.1	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°	21454.0	100.0
0°-180°	21454.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836183

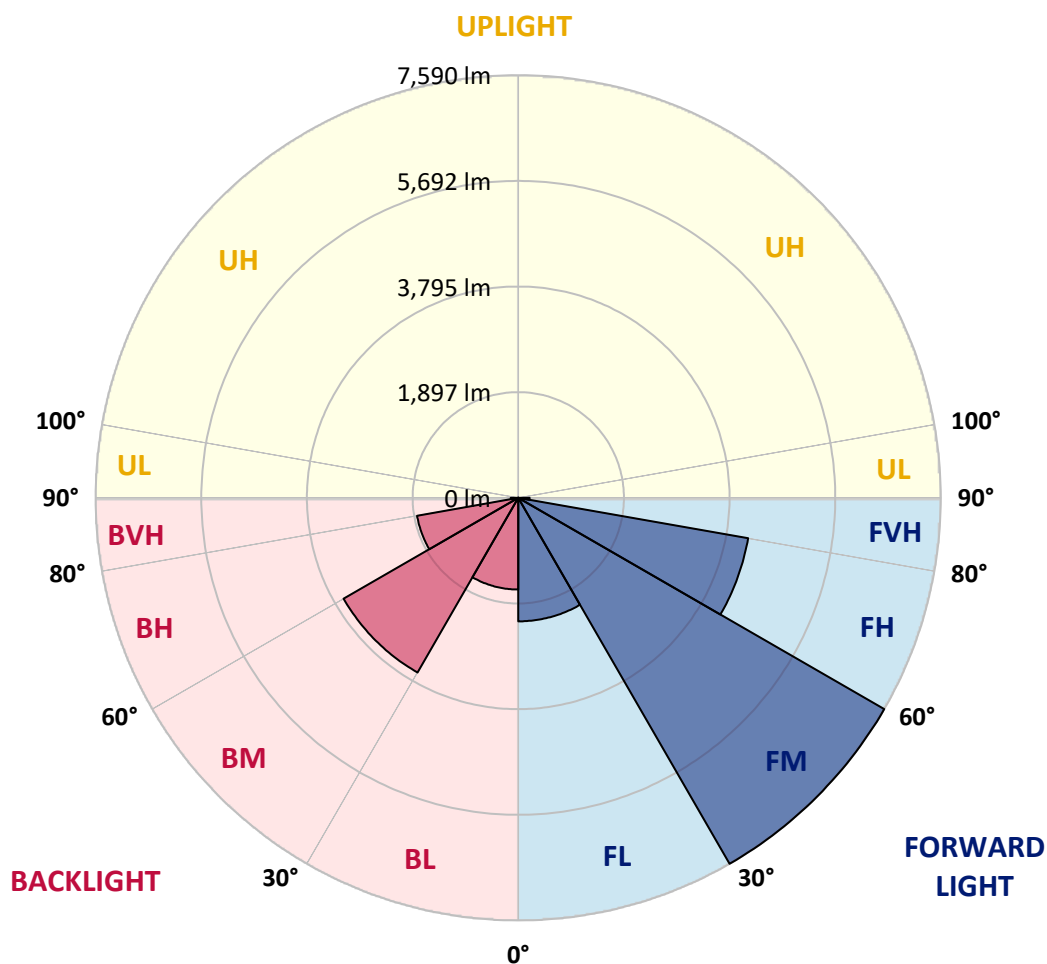
CATALOG NUMBER: ARCH3-150-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2218.6	10.3			
FM	(30°-60°)	7589.6	35.4			
FH	(60°-80°)	4191.9	19.5			G2/5000
FVH	(80°-90°)	204.5	1.0			G2/225
BL	(0°-30°)	1647.5	7.7	B3/2500		
BM	(30°-60°)	3622.6	16.9	B3/5000		
BH	(60°-80°)	1845.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	133.6	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: P836183

CATALOG NUMBER: ARCH3-150-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7
2.5°	4465.1	4457.1	4425.3	4429.3	4429.3	4425.3	4377.5	4357.6	4357.6	4353.6	4309.8
5°	4624.4	4612.5	4576.6	4568.7	4552.7	4532.8	4457.1	4413.3	4393.4	4389.4	4329.7
7.5°	4811.6	4795.7	4751.9	4728.0	4688.2	4636.4	4540.8	4473.1	4425.3	4421.3	4337.6
10°	4998.8	4982.9	4931.1	4887.3	4831.6	4747.9	4624.4	4524.9	4449.2	4441.2	4341.6
12.5°	5221.9	5206.0	5142.2	5086.5	5002.8	4891.3	4728.0	4592.6	4489.0	4477.1	4353.6
15°	5456.9	5433.0	5369.3	5305.5	5202.0	5058.6	4863.4	4684.2	4552.7	4532.8	4389.4
17.5°	5652.1	5620.2	5568.4	5504.7	5389.2	5221.9	4998.8	4775.8	4612.5	4596.5	4425.3
20°	5819.4	5795.5	5739.7	5680.0	5556.5	5373.3	5126.3	4867.4	4668.2	4648.3	4453.2
22.5°	5978.7	5946.8	5915.0	5871.2	5735.7	5532.6	5273.7	4978.9	4739.9	4716.0	4489.0
25°	6161.9	6126.1	6114.1	6090.2	5930.9	5723.8	5452.9	5118.3	4839.5	4811.6	4552.7
27.5°	6389.0	6349.1	6325.2	6325.2	6134.0	5919.0	5644.1	5281.6	4955.0	4931.1	4632.4
30°	6628.0	6580.2	6544.3	6544.3	6329.2	6114.1	5831.3	5445.0	5086.5	5058.6	4736.0
32.5°	6839.1	6791.3	6751.4	6747.4	6524.4	6309.3	6026.5	5624.2	5245.8	5210.0	4863.4
35°	7002.4	6958.6	6922.7	6930.7	6719.6	6508.5	6245.6	5863.2	5445.0	5405.1	5030.7
37.5°	7101.9	7086.0	7066.1	7094.0	6898.8	6699.6	6472.6	6094.2	5672.0	5636.1	5237.8
40°	7153.7	7141.8	7221.4	7257.3	7050.2	6870.9	6699.6	6333.2	5919.0	5879.1	5476.8
42.5°	7229.4	7329.0	7360.9	7352.9	7161.7	7002.4	6906.8	6592.1	6209.7	6173.9	5763.6
45°	6958.6	6934.7	7109.9	7205.5	7169.7	7086.0	7101.9	6902.8	6548.3	6512.4	6094.2
47.5°	6596.1	6564.2	6663.8	6898.8	7038.2	7117.9	7277.2	7225.4	6938.6	6906.8	6480.6
50°	5831.3	5875.1	6245.6	6560.2	6835.1	7109.9	7424.6	7572.0	7368.8	7337.0	6894.8
52.5°	4982.9	5026.7	5413.1	6138.0	6588.1	7050.2	7532.1	7918.5	7834.8	7799.0	7337.0
55°	4365.5	4461.1	4899.3	5425.0	6237.6	6863.0	7595.9	8273.0	8336.7	8304.9	7818.9
57.5°	3752.1	3823.8	4154.4	4620.4	5759.6	6536.3	7591.9	8603.6	8862.5	8830.6	8308.8
60°	3031.2	3122.8	3385.7	3887.5	5122.3	6146.0	7480.3	8862.5	9368.4	9344.5	8782.8
62.5°	2537.3	2565.1	2752.4	3186.5	4301.8	5652.1	7229.4	9001.9	9826.4	9810.5	9209.0
65°	2043.4	2047.3	2218.6	2581.1	3509.1	5038.7	6803.2	8950.1	10172.9	10180.9	9515.7
67.5°	1577.3	1597.2	1752.6	2027.4	2788.2	4242.0	6193.8	8599.6	10176.9	10196.8	9340.5
70°	1091.4	1107.3	1342.3	1609.2	2154.9	3381.7	5369.3	7671.5	9340.5	9356.4	8372.6
72.5°	768.7	776.7	1027.7	1286.6	1684.9	2549.2	4050.9	6345.1	7962.3	7974.3	7042.2
75°	573.6	581.5	724.9	975.9	1290.5	1764.5	2768.3	4859.4	6361.1	6361.1	5560.5
77.5°	406.3	410.3	470.0	673.2	860.4	1191.0	1665.0	3182.5	4668.2	4676.2	4050.9
80°	274.8	278.8	306.7	454.1	537.7	645.3	904.2	1668.9	2943.5	2955.5	2573.1
82.5°	143.4	151.4	171.3	231.0	270.9	358.5	466.0	848.4	1629.1	1661.0	1545.5
85°	55.8	55.8	63.7	75.7	99.6	139.4	215.1	322.6	736.9	760.8	681.1
87.5°	19.9	19.9	23.9	23.9	27.9	31.9	35.8	47.8	83.6	83.6	79.7
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: P836183

CATALOG NUMBER: ARCH3-150-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7	4333.7
2.5°	4293.8	4293.8	4273.9	4281.9	4277.9	4269.9	4262.0	4273.9	4262.0	4234.1	4230.1
5°	4301.8	4293.8	4262.0	4258.0	4246.0	4230.1	4210.2	4218.1	4198.2	4174.3	4170.4
7.5°	4305.8	4289.8	4246.0	4230.1	4206.2	4174.3	4142.5	4142.5	4114.6	4090.7	4086.7
10°	4297.8	4277.9	4218.1	4186.3	4142.5	4094.7	4050.9	4038.9	4007.0	3979.2	3979.2
12.5°	4301.8	4273.9	4198.2	4146.5	4086.7	4027.0	3971.2	3955.3	3927.4	3899.5	3895.5
15°	4325.7	4285.9	4190.3	4122.6	4034.9	3967.2	3907.5	3895.5	3871.6	3851.7	3851.7
17.5°	4349.6	4297.8	4178.3	4082.7	3975.2	3899.5	3843.7	3843.7	3827.8	3815.9	3815.9
20°	4361.5	4301.8	4154.4	4027.0	3903.5	3823.8	3772.0	3780.0	3776.0	3772.0	3772.0
22.5°	4389.4	4309.8	4134.5	3975.2	3827.8	3744.2	3696.4	3708.3	3704.3	3704.3	3708.3
25°	4433.2	4329.7	4118.6	3927.4	3756.1	3664.5	3612.7	3620.7	3620.7	3620.7	3620.7
27.5°	4493.0	4369.5	4114.6	3883.6	3684.4	3580.8	3517.1	3517.1	3501.2	3505.2	3509.1
30°	4584.6	4445.2	4122.6	3843.7	3608.7	3477.3	3401.6	3389.7	3385.7	3393.6	3397.6
32.5°	4696.1	4548.8	4170.4	3815.9	3529.1	3361.8	3266.2	3262.2	3250.2	3250.2	3250.2
35°	4835.5	4648.3	4214.2	3811.9	3449.4	3238.3	3134.7	3122.8	3094.9	3083.0	3083.0
37.5°	5014.8	4803.7	4265.9	3784.0	3381.7	3118.8	2995.3	2955.5	2923.6	2919.6	2919.6
40°	5233.9	4978.9	4341.6	3752.1	3310.0	2995.3	2832.0	2764.3	2768.3	2784.2	2784.2
42.5°	5492.8	5194.0	4437.2	3736.2	3206.4	2867.9	2640.8	2561.2	2589.0	2605.0	2609.0
45°	5795.5	5448.9	4544.8	3716.3	3110.8	2724.5	2437.7	2338.1	2350.1	2354.0	2358.0
47.5°	6146.0	5731.7	4656.3	3700.3	3003.3	2545.2	2214.6	2083.2	2079.2	2055.3	2063.3
50°	6512.4	6030.5	4771.8	3672.5	2871.8	2334.1	1979.6	1824.3	1792.4	1756.6	1760.5
52.5°	6902.8	6337.2	4879.4	3628.6	2708.5	2119.0	1756.6	1589.3	1525.5	1485.7	1493.7
55°	7333.0	6651.9	4982.9	3560.9	2537.3	1903.9	1557.4	1386.1	1306.5	1274.6	1278.6
57.5°	7727.3	6954.6	5058.6	3477.3	2350.1	1708.8	1382.2	1214.9	1163.1	1159.1	1163.1
60°	8109.7	7209.5	5090.5	3361.8	2158.9	1529.5	1218.8	1091.4	1055.5	1075.4	1079.4
62.5°	8432.3	7372.8	5074.5	3206.4	1963.7	1358.3	1087.4	995.8	971.9	1011.7	1015.7
65°	8619.5	7424.6	4963.0	2983.4	1752.6	1191.0	963.9	864.3	852.4	876.3	888.2
67.5°	8372.6	7101.9	4660.3	2676.7	1517.6	1035.6	844.4	764.8	744.8	764.8	764.8
70°	7420.6	6154.0	3943.3	2190.7	1258.7	884.3	732.9	677.1	661.2	677.1	673.2
72.5°	6181.8	5118.3	3106.9	1708.8	991.8	744.8	637.3	585.5	569.6	553.7	545.7
75°	4795.7	3887.5	2254.5	1254.7	748.8	597.5	533.7	485.9	446.1	462.0	454.1
77.5°	3513.1	2728.5	1597.2	868.3	537.7	462.0	418.2	382.4	354.5	386.4	382.4
80°	2262.4	1764.5	1067.5	581.5	370.4	322.6	306.7	286.8	314.7	410.3	418.2
82.5°	1382.2	1119.3	637.3	378.4	243.0	215.1	199.2	199.2	322.6	354.5	358.5
85°	617.4	593.5	346.5	195.2	135.4	123.5	111.5	143.4	131.4	95.6	99.6
87.5°	99.6	103.6	75.7	67.7	51.8	51.8	39.8	27.9	19.9	11.9	11.9
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)