

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: P841650

Luminaire Tested: **ARCH4-210-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841650
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: ARCH4-210-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28443 lumens
Efficiency: N/A
Efficacy: 133.5 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): 213.1
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



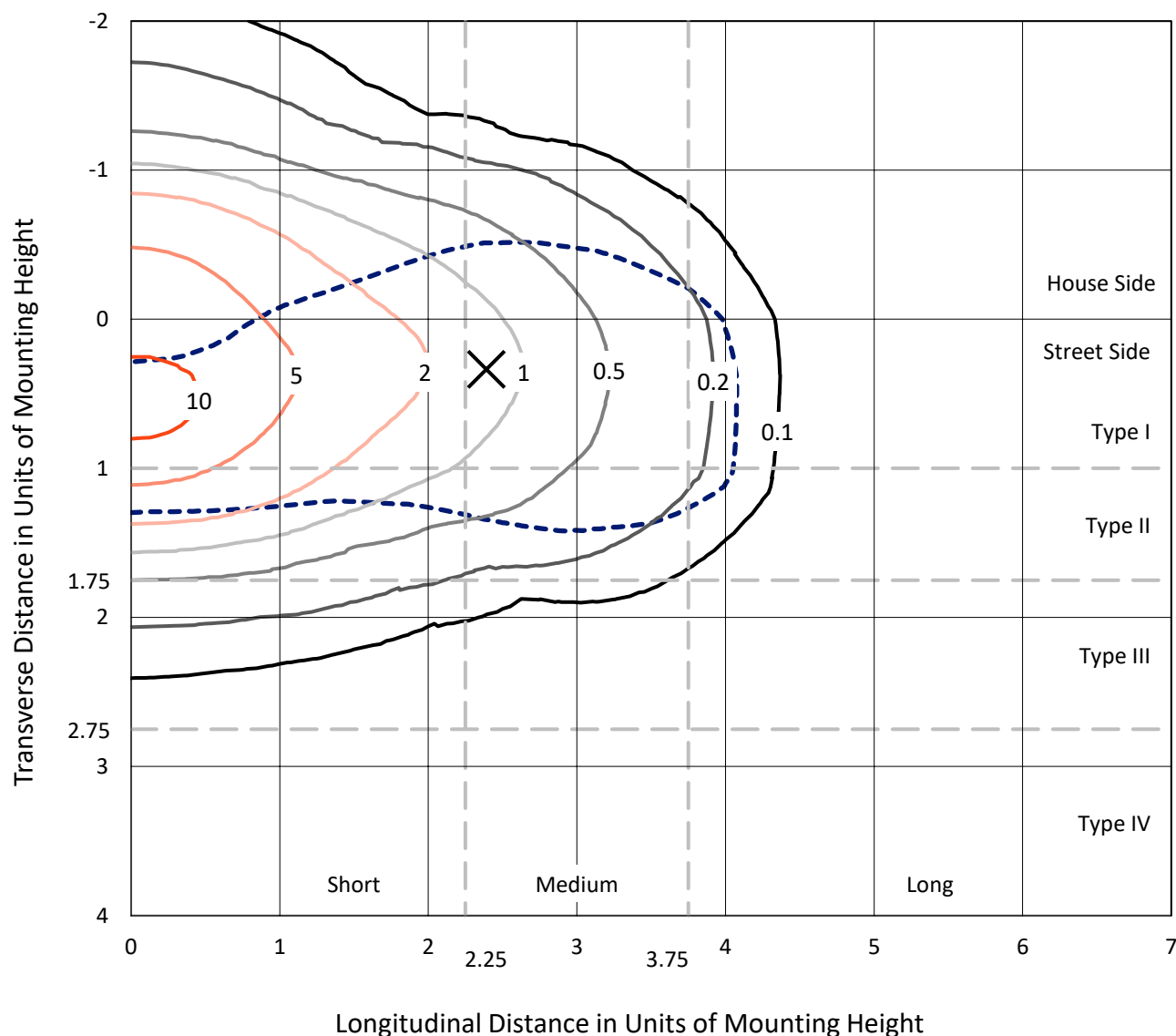
REPORT NUMBER: P841650

CATALOG NUMBER: ARCH4-210-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

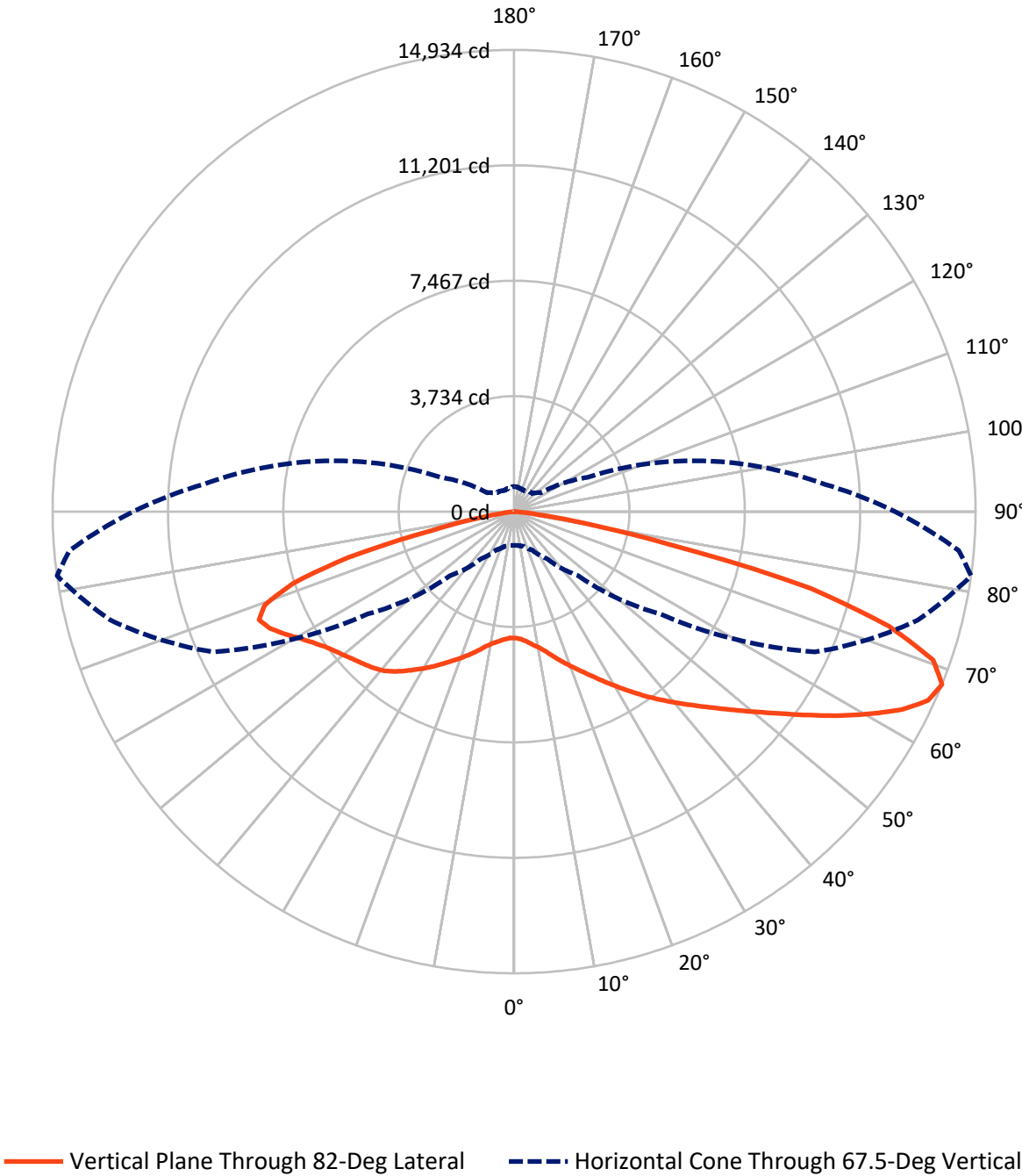
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type II - Medium - N/A

REPORT NUMBER: P841650
CATALOG NUMBER: ARCH4-210-722-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P841650

CATALOG NUMBER: ARCH4-210-722-U-T2R

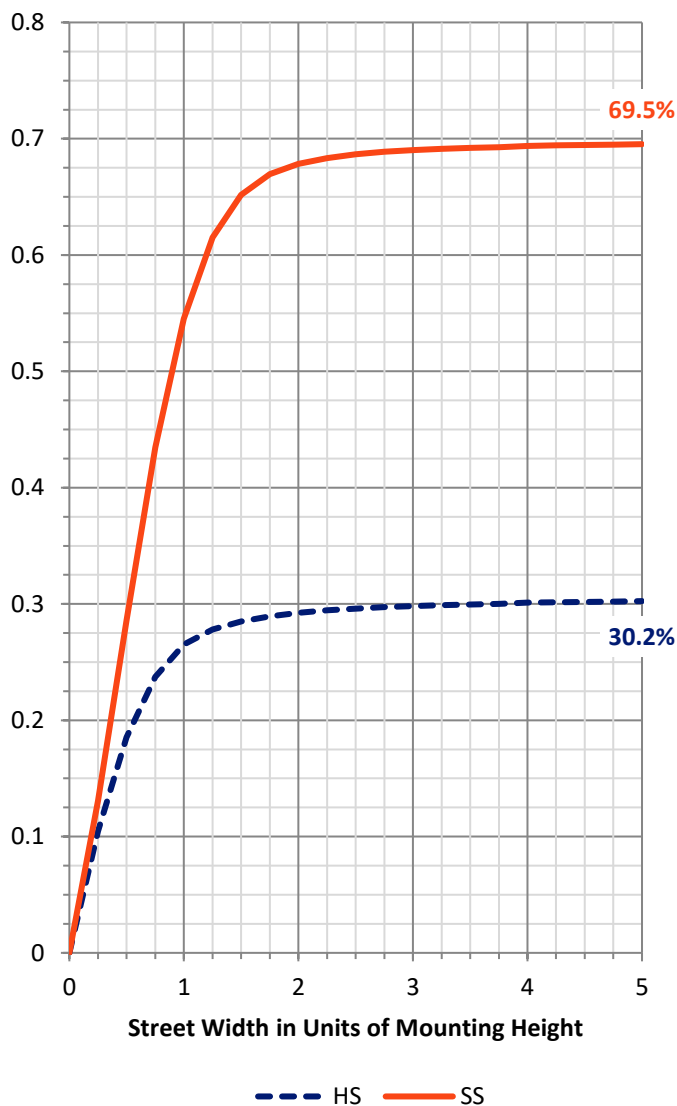
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8662.0	0.0	8662.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	19780.9	0.0	19780.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	28443.0	0.0	28443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	1.5
10°-20°	1522.0	5.4
20°-30°	3058.9	10.8
30°-40°	4805.1	16.9
40°-50°	5853.6	20.6
50°-60°	5530.9	19.4
60°-70°	4567.3	16.1
70°-80°	2487.1	8.7
80°-90°	195.5	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°	28443.0	100.0
0°-180°	28443.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841650

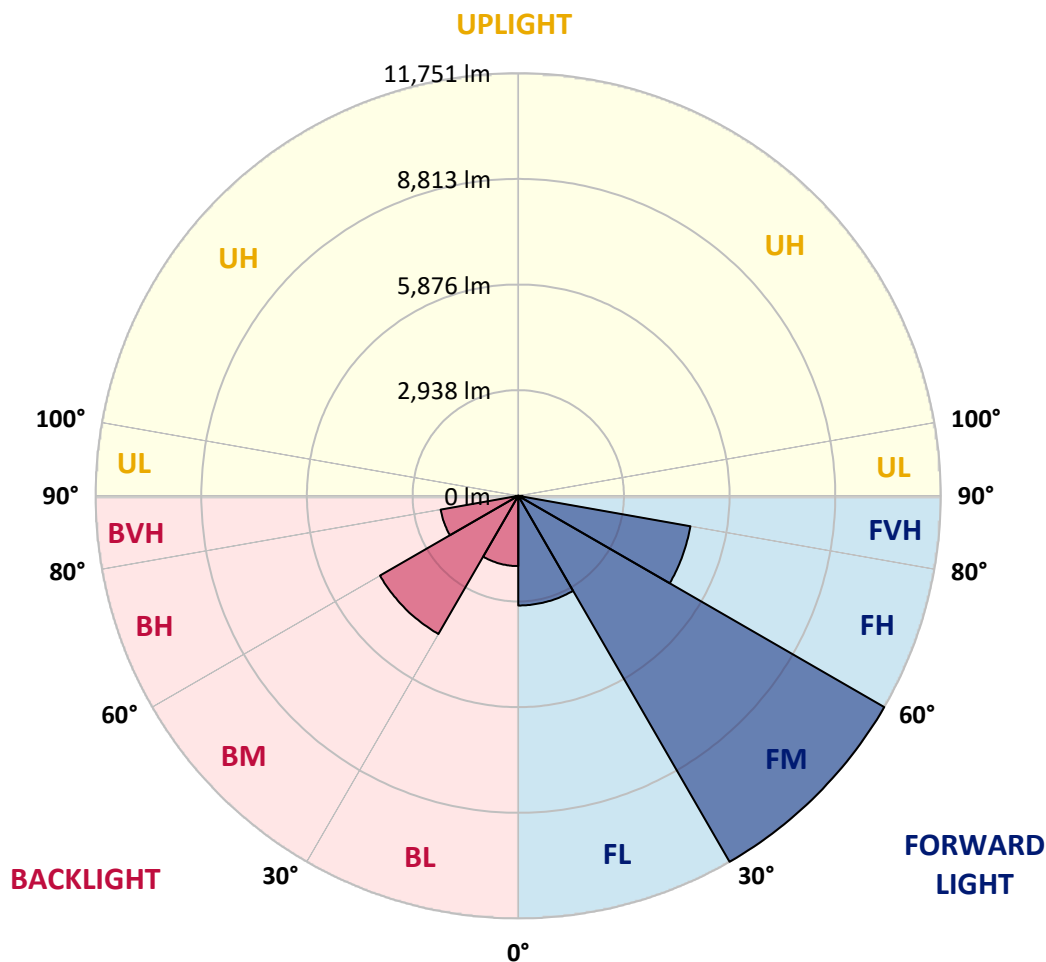
CATALOG NUMBER: ARCH4-210-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3050.1	10.7			
FM	(30°-60°)	11751.0	41.3			
FH	(60°-80°)	4861.9	17.1			G2/5000
FVH	(80°-90°)	117.9	0.4			G2/225
BL	(0°-30°)	1953.4	6.9	B3/2500		
BM	(30°-60°)	4438.6	15.6	B3/5000		
BH	(60°-80°)	2192.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	77.7	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: P841650

CATALOG NUMBER: ARCH4-210-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7
2.5°	4274.5	4274.5	4307.6	4307.6	4278.6	4233.2	4220.8	4171.3	4125.8	4125.8	4130.0
5°	4683.4	4679.3	4704.0	4671.0	4600.8	4509.9	4448.0	4340.6	4249.7	4220.8	4216.7
7.5°	5183.1	5179.0	5191.4	5137.7	5005.5	4856.8	4732.9	4559.5	4410.8	4348.9	4332.3
10°	5740.7	5736.5	5724.1	5633.3	5455.7	5224.4	5038.6	4799.0	4576.0	4476.9	4456.2
12.5°	6380.8	6372.5	6343.6	6211.5	5967.8	5670.4	5402.0	5092.2	4794.9	4658.6	4613.2
15°	7095.3	7082.9	7029.2	6868.1	6541.9	6166.0	5819.1	5422.6	5059.2	4881.6	4819.7
17.5°	7846.9	7846.9	7764.3	7524.8	7161.4	6694.7	6265.2	5761.3	5335.9	5117.0	5042.7
20°	8611.0	8606.8	8503.6	8214.5	7785.0	7248.1	6702.9	6149.5	5620.9	5356.6	5265.7
22.5°	9416.3	9408.1	9280.0	8949.6	8437.5	7830.4	7194.4	6533.6	5934.8	5616.8	5501.1
25°	10341.4	10329.0	10172.1	9767.4	9160.3	8474.7	7747.8	6983.8	6294.1	5905.9	5769.6
27.5°	11324.4	11307.8	11122.0	10651.2	9986.3	9160.3	8359.1	7504.1	6690.5	6228.0	6075.2
30°	12199.9	12187.5	11985.2	11502.0	10737.9	9841.7	8941.4	8024.5	7107.7	6570.8	6380.8
32.5°	12860.7	12860.7	12679.0	12204.1	11411.1	10494.2	9527.8	8516.0	7541.3	6938.3	6715.3
35°	13261.3	13273.7	13116.8	12736.8	11989.3	11109.6	10134.9	9094.2	8003.9	7330.7	7091.2
37.5°	13319.1	13360.4	13269.6	13013.5	12389.9	11621.7	10729.7	9651.7	8483.0	7727.2	7458.7
40°	13050.7	13079.6	13083.7	12984.6	12555.1	11989.3	11254.2	10242.3	8990.9	8144.3	7834.5
42.5°	12513.8	12534.4	12571.6	12600.5	12435.3	12150.4	11654.8	10791.6	9532.0	8569.7	8206.2
45°	11820.0	11815.8	11877.8	12001.7	11993.4	12059.5	11877.8	11291.3	10093.6	9052.9	8619.2
47.5°	10783.3	10762.7	10981.6	11262.4	11402.8	11712.6	11881.9	11683.7	10704.9	9585.7	9090.1
50°	9160.3	9139.6	9618.7	10279.5	10692.5	11163.3	11654.8	11919.1	11345.0	10184.5	9602.2
52.5°	7186.1	7165.5	7772.6	8929.0	9829.3	10514.9	11196.3	11972.8	11952.1	10853.6	10180.4
55°	5344.2	5327.7	5918.2	7169.6	8627.5	9763.2	10634.7	11832.4	12522.1	11621.7	10882.5
57.5°	3766.5	3758.3	4270.4	5307.0	7082.9	8846.4	10093.6	11559.8	13046.6	12456.0	11675.4
60°	2643.2	2630.8	3002.5	3803.7	5356.6	7462.8	9556.7	11196.3	13438.9	13277.8	12517.9
62.5°	1780.0	1771.8	2036.1	2705.1	3803.7	5744.8	8743.1	10952.7	13661.9	14103.8	13368.7
65°	1350.5	1346.4	1466.1	1833.7	2692.7	4125.8	7450.5	10923.8	13690.8	14723.3	14091.4
67.5°	1090.3	1094.4	1160.5	1371.1	1862.6	2932.3	5777.8	10742.0	13538.0	14934.0	14442.5
70°	892.1	892.1	921.0	1061.4	1375.3	1978.3	4035.0	9916.0	13112.6	14384.7	14025.4
72.5°	681.4	685.6	776.4	859.0	1036.6	1387.7	2585.4	8206.2	12109.1	12683.1	12410.5
75°	541.0	536.9	590.6	706.2	805.3	991.2	1585.9	5885.2	10304.3	9911.9	9738.5
77.5°	388.2	384.1	425.4	524.5	611.2	702.1	945.8	2969.4	5604.4	5150.1	5022.0
80°	264.3	256.1	293.2	363.4	404.7	413.0	462.6	1139.9	2444.9	2304.5	2275.6
82.5°	136.3	136.3	156.9	206.5	210.6	214.8	206.5	367.6	809.5	755.8	722.7
85°	53.7	53.7	57.8	70.2	70.2	74.3	74.3	95.0	86.7	82.6	78.5
87.5°	4.1	4.1	8.3	8.3	12.4	12.4	12.4	16.5	20.6	20.6	20.6
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: P841650

CATALOG NUMBER: ARCH4-210-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7	4088.7
2.5°	4121.7	4105.2	4051.5	4039.1	4030.8	4018.5	4022.6	3993.7	3981.3	3985.4	3968.9
5°	4196.0	4167.1	4101.1	4072.1	4063.9	4051.5	4063.9	4043.2	4022.6	4030.8	4022.6
7.5°	4299.3	4258.0	4175.4	4146.5	4142.4	4130.0	4146.5	4130.0	4113.4	4121.7	4105.2
10°	4406.7	4353.0	4262.1	4233.2	4233.2	4229.1	4245.6	4220.8	4204.3	4208.4	4200.2
12.5°	4563.6	4493.4	4394.3	4369.5	4357.1	4369.5	4373.6	4340.6	4311.7	4315.8	4303.4
15°	4753.6	4675.1	4567.7	4530.6	4522.3	4518.2	4501.7	4460.4	4423.2	4419.1	4406.7
17.5°	4960.1	4861.0	4732.9	4695.8	4658.6	4646.2	4604.9	4551.2	4493.4	4493.4	4476.9
20°	5158.3	5046.8	4894.0	4840.3	4786.6	4737.1	4666.9	4580.1	4505.8	4493.4	4476.9
22.5°	5373.1	5240.9	5063.3	4984.9	4889.9	4790.8	4671.0	4555.4	4460.4	4439.7	4427.3
25°	5612.6	5447.4	5236.8	5121.2	4968.3	4815.5	4638.0	4489.3	4377.8	4344.7	4336.5
27.5°	5876.9	5678.7	5422.6	5253.3	5030.3	4790.8	4563.6	4386.0	4249.7	4208.4	4196.0
30°	6145.4	5910.0	5592.0	5344.2	5030.3	4712.3	4427.3	4220.8	4063.9	4006.1	3997.8
32.5°	6413.8	6149.5	5744.8	5393.7	4980.7	4580.1	4249.7	4006.1	3828.5	3758.3	3774.8
35°	6736.0	6413.8	5885.2	5414.4	4898.1	4419.1	4047.4	3762.4	3580.7	3518.7	3531.1
37.5°	7070.5	6678.2	5996.7	5397.9	4782.5	4237.3	3820.2	3543.5	3316.4	3209.0	3221.4
40°	7359.6	6917.7	6075.2	5340.0	4633.8	4030.8	3597.2	3233.8	2919.9	2816.6	2804.2
42.5°	7632.2	7095.3	6116.5	5253.3	4464.5	3791.3	3279.2	2812.5	2498.6	2370.6	2374.7
45°	7917.1	7268.7	6100.0	5137.7	4253.9	3510.5	2870.3	2399.5	2122.8	2007.2	2011.3
47.5°	8243.4	7454.6	6083.4	5013.8	3997.8	3147.0	2478.0	2036.1	1796.5	1713.9	1705.7
50°	8590.3	7661.1	6062.8	4861.0	3712.8	2742.3	2089.8	1697.4	1495.0	1441.4	1429.0
52.5°	8982.7	7884.1	6050.4	4679.3	3370.1	2312.8	1742.8	1400.1	1263.8	1226.6	1222.5
55°	9453.5	8144.3	6066.9	4460.4	2957.1	1908.0	1449.6	1206.0	1115.1	1094.4	1090.3
57.5°	10027.6	8478.8	6116.5	4204.3	2523.4	1557.0	1234.9	1086.2	1028.4	1011.8	1011.8
60°	10651.2	8858.8	6207.3	3915.2	2089.8	1284.4	1094.4	991.2	966.4	987.1	987.1
62.5°	11324.4	9304.8	6368.4	3564.2	1685.0	1086.2	982.9	912.7	896.2	937.5	941.6
65°	11948.0	9738.5	6471.7	3142.9	1338.1	941.6	896.2	834.3	842.5	883.8	879.7
67.5°	12332.1	10097.8	6327.1	2614.3	1061.4	834.3	805.3	751.7	772.3	805.3	809.5
70°	12096.7	9895.4	5612.6	1974.1	830.1	726.9	706.2	673.2	689.7	731.0	747.5
72.5°	10944.4	8862.9	4365.4	1334.0	669.1	611.2	619.5	603.0	623.6	660.8	698.0
75°	8883.6	6698.8	2928.1	854.9	528.6	520.4	532.8	520.4	528.6	565.8	586.5
77.5°	4638.0	3266.8	1457.9	532.8	392.3	404.7	425.4	429.5	454.3	462.6	470.8
80°	2164.1	1470.3	607.1	297.4	260.2	285.0	326.3	330.4	338.7	351.0	355.2
82.5°	706.2	441.9	280.8	161.1	148.7	161.1	210.6	251.9	256.1	280.8	280.8
85°	74.3	45.4	61.9	66.1	57.8	70.2	95.0	90.9	41.3	24.8	24.8
87.5°	20.6	16.5	20.6	20.6	16.5	16.5	12.4	4.1	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)