

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: P841521

Luminaire Tested: **ARCH4-190-727-U-T4W**

Issue Date: 5/27/2024

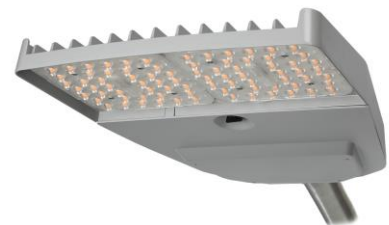
Test Information

Test Method: LM-79-08
Report Number: P841521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28089 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 190
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



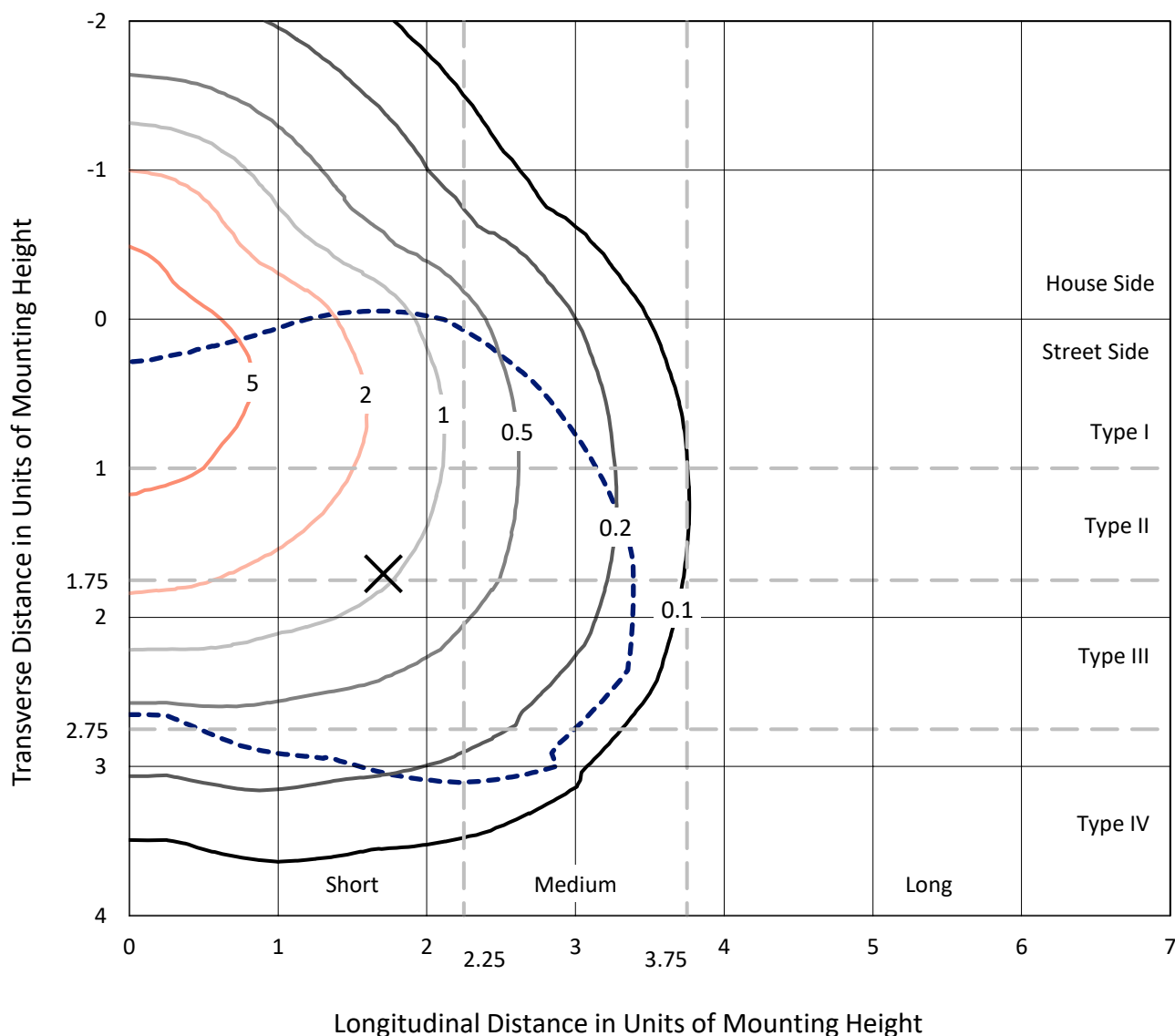
REPORT NUMBER: P841521

CATALOG NUMBER: ARCH4-190-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

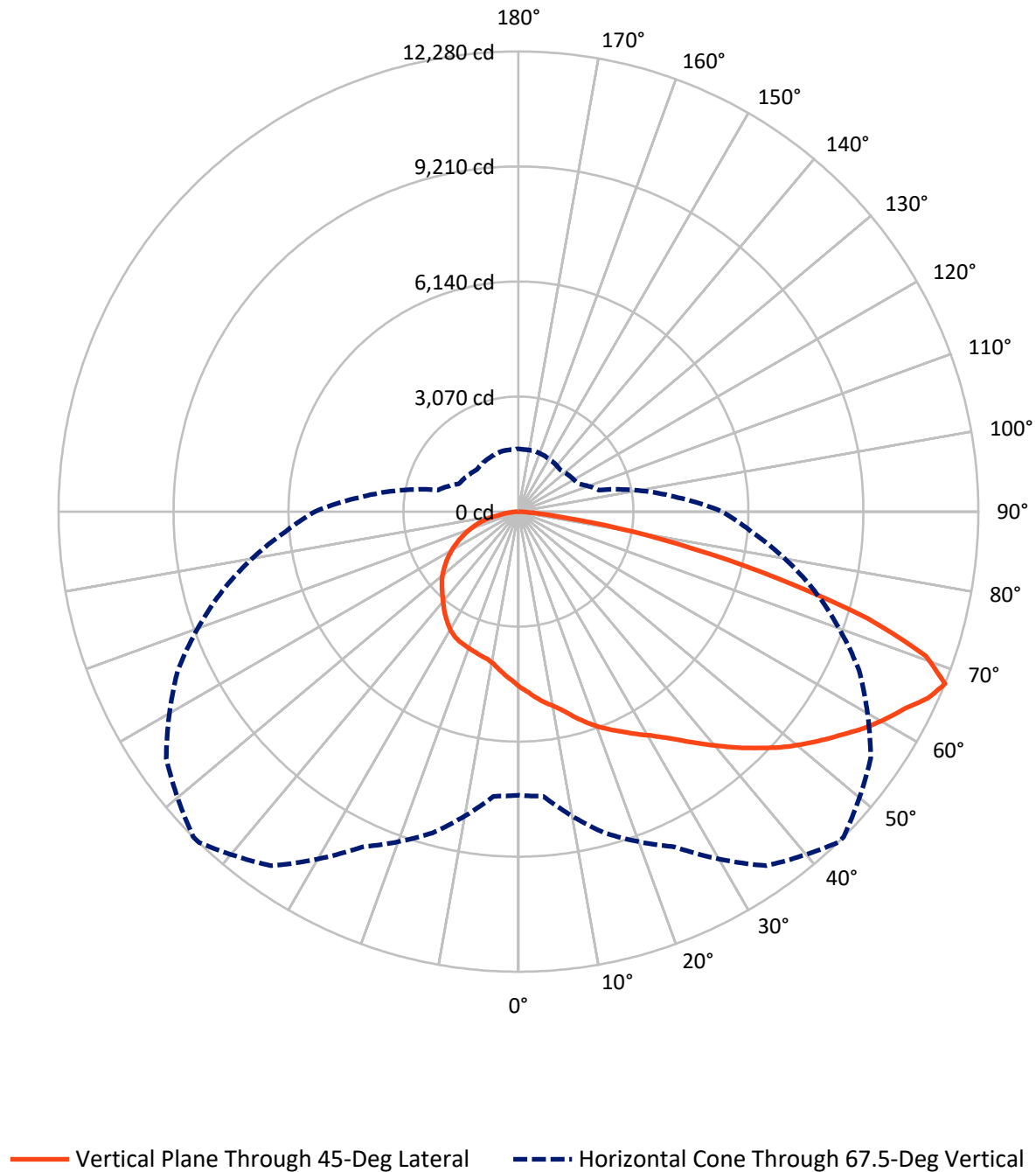


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type IV - Short - N/A

REPORT NUMBER: P841521
CATALOG NUMBER: ARCH4-190-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841521

CATALOG NUMBER: ARCH4-190-727-U-T4W

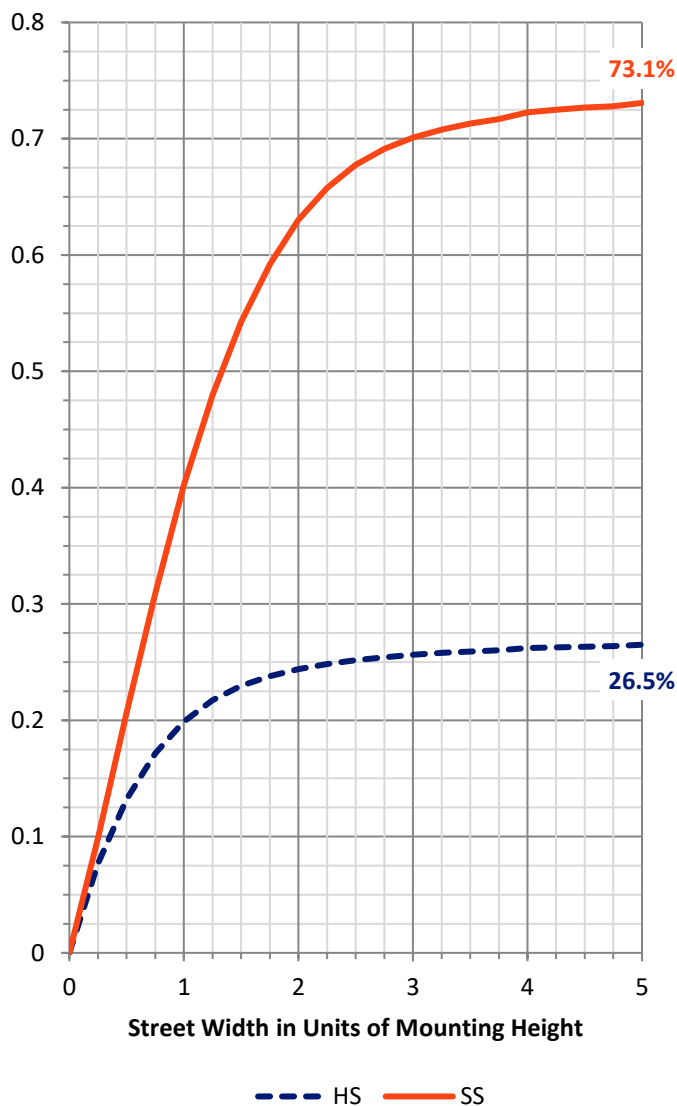
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7504.0	0.0	7504.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	20585.0	0.0	20585.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	28089.0	0.0	28089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.5	1.6
10°-20°	1385.6	4.9
20°-30°	2391.7	8.5
30°-40°	3526.9	12.6
40°-50°	4778.3	17.0
50°-60°	5840.2	20.8
60°-70°	6023.3	21.4
70°-80°	3299.1	11.7
80°-90°	395.4	1.4
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°	28089.0	100.0
0°-180°	28089.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841521

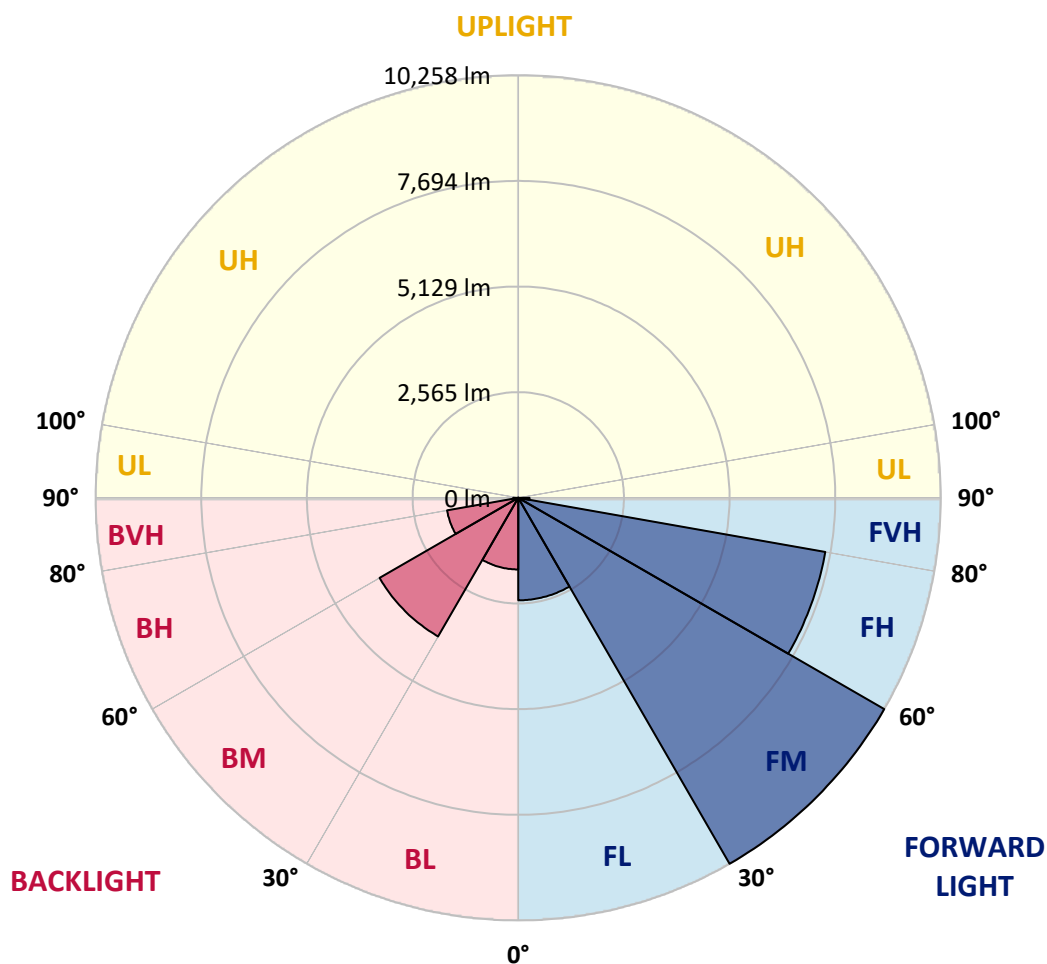
CATALOG NUMBER: ARCH4-190-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2486.6	8.9			
FM	(30°-60°)	10258.4	36.5			
FH	(60°-80°)	7567.6	26.9			G4/12000
FVH	(80°-90°)	272.4	1.0			G3/500
BL	(0°-30°)	1739.2	6.2	B3/2500		
BM	(30°-60°)	3886.9	13.8	B3/5000		
BH	(60°-80°)	1754.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	123.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P841521

CATALOG NUMBER: ARCH4-190-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7
2.5°	4889.9	4885.6	4894.2	4864.2	4825.8	4821.5	4821.5	4795.8	4765.9	4706.1	4659.1
5°	5120.7	5112.1	5116.4	5073.7	5022.4	4996.7	4992.5	4936.9	4868.5	4774.5	4689.0
7.5°	5334.4	5325.9	5321.6	5274.6	5197.6	5154.9	5150.6	5069.4	4988.2	4842.9	4718.9
10°	5535.3	5526.8	5518.2	5454.1	5360.1	5295.9	5287.4	5184.8	5082.2	4902.7	4744.6
12.5°	5791.8	5774.7	5766.1	5689.2	5552.4	5484.0	5471.2	5334.4	5206.2	4988.2	4795.8
15°	6061.1	6048.2	6035.4	5962.7	5808.9	5719.1	5697.7	5526.8	5351.5	5099.3	4872.8
17.5°	6262.0	6249.1	6249.1	6185.0	6044.0	5941.4	5924.3	5719.1	5501.1	5201.9	4932.6
20°	6385.9	6373.1	6385.9	6347.4	6240.6	6155.1	6138.0	5911.5	5650.7	5295.9	4983.9
22.5°	6475.7	6462.9	6484.2	6467.1	6390.2	6338.9	6326.1	6103.8	5804.6	5394.3	5035.2
25°	6633.8	6633.8	6633.8	6603.9	6531.2	6514.1	6514.1	6321.8	6001.2	5522.5	5112.1
27.5°	6950.1	6933.0	6911.7	6826.2	6702.2	6697.9	6723.6	6544.1	6227.8	5689.2	5206.2
30°	7416.0	7407.5	7326.3	7146.8	6937.3	6915.9	6933.0	6783.4	6471.4	5864.4	5313.0
32.5°	8018.7	7988.8	7822.1	7552.8	7253.6	7155.3	7189.5	7031.3	6727.9	6044.0	5415.6
35°	8446.2	8454.7	8335.0	8091.4	7736.6	7475.9	7501.5	7309.2	7005.7	6244.9	5543.9
37.5°	8937.7	8967.6	8788.1	8604.3	8275.2	7830.7	7856.3	7595.6	7283.5	6497.0	5680.6
40°	9617.3	9557.5	9254.0	9036.0	8672.7	8202.5	8223.9	7916.1	7604.1	6736.4	5838.8
42.5°	10185.8	10079.0	9711.4	9433.5	8997.6	8595.8	8617.1	8262.4	7929.0	7001.4	6014.0
45°	11002.2	10707.3	10177.3	10040.5	9331.0	8980.5	9001.8	8630.0	8270.9	7283.5	6202.1
47.5°	11476.7	11006.5	10668.8	10596.2	9698.6	9378.0	9403.6	9018.9	8638.5	7604.1	6398.7
50°	11446.8	11143.3	11045.0	10865.5	10023.4	9749.8	9775.5	9420.7	9010.4	7920.4	6586.8
52.5°	11250.1	11305.7	11254.4	10955.2	10348.3	10108.9	10138.8	9818.2	9390.8	8215.3	6762.1
55°	11553.6	11592.1	11493.8	11100.5	10707.3	10467.9	10502.1	10237.1	9766.9	8476.1	6911.7
57.5°	11917.0	11780.2	11681.9	11357.0	11079.2	10856.9	10895.4	10664.6	10091.8	8685.5	7027.1
60°	11899.9	11613.5	11711.8	11374.1	11331.4	11216.0	11250.1	11015.1	10339.7	8839.4	7074.1
62.5°	11023.6	10869.7	11365.6	11250.1	11536.5	11536.5	11579.3	11228.8	10489.3	8903.5	7048.4
65°	9501.9	9510.5	10382.5	10861.2	11780.2	11976.8	12011.0	11361.3	10403.8	8715.4	6809.1
67.5°	7569.9	7625.5	8877.9	9873.8	11536.5	12276.0	12280.3	11481.0	10036.2	8185.4	6253.4
70°	5539.6	5582.3	7061.3	8270.9	10386.7	11613.5	11545.1	11143.3	9236.9	7262.2	5385.7
72.5°	3744.4	3782.8	5304.5	6351.7	8523.1	9890.9	9741.3	9848.2	7873.4	5967.0	4329.9
75°	2517.6	2564.6	3774.3	4543.7	6270.5	7510.1	7176.7	7458.8	6091.0	4518.0	3158.8
77.5°	1585.8	1615.7	2397.9	2979.2	4282.9	5112.1	4778.7	4783.0	3509.3	2432.1	1696.9
80°	1008.8	1017.3	1453.3	1718.3	2479.1	3073.3	2718.5	2209.9	1581.5	1290.9	1013.0
82.5°	585.6	572.8	867.7	970.3	1179.7	1166.9	966.0	914.7	692.4	645.4	517.2
85°	235.1	218.0	380.4	354.8	359.0	380.4	282.1	282.1	226.5	175.2	128.2
87.5°	47.0	47.0	51.3	47.0	47.0	51.3	38.5	38.5	34.2	34.2	34.2
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: P841521

CATALOG NUMBER: ARCH4-190-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7	4684.7
2.5°	4650.5	4642.0	4620.6	4565.0	4535.1	4518.0	4492.4	4483.8	4479.5	4483.8	4496.6
5°	4663.3	4633.4	4573.6	4483.8	4424.0	4385.5	4342.8	4325.7	4312.8	4312.8	4325.7
7.5°	4671.9	4624.9	4522.3	4389.8	4304.3	4244.5	4193.2	4171.8	4167.5	4180.3	4184.6
10°	4676.2	4607.8	4462.4	4295.7	4184.6	4107.7	4056.4	4043.6	4056.4	4082.0	4086.3
12.5°	4706.1	4612.0	4428.3	4231.6	4099.1	4022.2	3983.7	3983.7	4017.9	4064.9	4069.2
15°	4757.4	4642.0	4411.2	4180.3	4043.6	3975.2	3962.3	3983.7	4035.0	4107.7	4116.2
17.5°	4795.8	4659.1	4372.7	4111.9	3970.9	3928.1	3949.5	4000.8	4073.5	4171.8	4180.3
20°	4821.5	4659.1	4317.1	4030.7	3898.2	3889.7	3949.5	4030.7	4107.7	4223.1	4235.9
22.5°	4847.1	4650.5	4253.0	3932.4	3817.0	3842.7	3953.8	4056.4	4133.3	4257.3	4278.6
25°	4894.2	4663.3	4188.9	3834.1	3731.5	3804.2	3949.5	4073.5	4154.7	4282.9	4317.1
27.5°	4958.3	4693.3	4141.9	3744.4	3646.0	3744.4	3919.6	4069.2	4154.7	4278.6	4317.1
30°	5026.7	4727.5	4086.3	3646.0	3547.7	3658.9	3855.5	4022.2	4120.5	4235.9	4282.9
32.5°	5099.3	4765.9	4039.3	3539.2	3428.0	3543.5	3761.4	3949.5	4056.4	4163.2	4214.5
35°	5197.6	4834.3	4013.6	3453.7	3321.2	3423.8	3641.8	3855.5	3970.9	4069.2	4129.0
37.5°	5317.3	4919.8	4000.8	3368.2	3205.8	3291.3	3513.5	3740.1	3864.0	3945.2	4000.8
40°	5454.1	5026.7	3996.5	3287.0	3090.4	3154.5	3381.0	3607.6	3727.3	3791.4	3838.4
42.5°	5608.0	5146.3	3988.0	3205.8	2975.0	3026.3	3252.8	3475.1	3577.6	3633.2	3676.0
45°	5770.4	5266.0	3970.9	3107.5	2851.0	2910.8	3120.3	3316.9	3423.8	3470.8	3517.8
47.5°	5932.8	5385.7	3936.7	2996.3	2739.9	2795.4	2979.2	3150.2	3235.7	3278.4	3325.5
50°	6091.0	5492.6	3855.5	2868.1	2624.5	2675.8	2816.8	2932.2	2996.3	3030.5	3077.5
52.5°	6232.0	5565.2	3740.1	2718.5	2509.1	2534.7	2628.7	2727.0	2778.3	2782.6	2825.4
55°	6351.7	5603.7	3573.4	2564.6	2385.1	2389.4	2440.7	2517.6	2539.0	2521.9	2551.8
57.5°	6420.1	5582.3	3389.6	2406.5	2256.9	2239.8	2278.2	2316.7	2321.0	2278.2	2308.2
60°	6437.2	5484.0	3150.2	2248.3	2128.6	2081.6	2094.4	2085.9	2077.3	2060.2	2085.9
62.5°	6351.7	5274.6	2885.2	2094.4	1991.9	1919.2	1914.9	1910.6	1923.5	1927.7	1932.0
65°	6039.7	4881.3	2568.9	1936.3	1846.5	1748.2	1743.9	1795.2	1812.3	1786.7	1795.2
67.5°	5437.0	4278.6	2222.7	1752.5	1662.7	1577.2	1611.4	1641.4	1671.3	1662.7	1671.3
70°	4582.1	3513.5	1906.4	1547.3	1461.8	1414.8	1453.3	1478.9	1483.2	1474.7	1483.2
72.5°	3603.3	2744.1	1611.4	1337.9	1260.9	1239.6	1286.6	1308.0	1346.4	1363.5	1367.8
75°	2603.1	2026.1	1320.8	1111.3	1047.2	1047.2	1090.0	1128.4	1162.6	1141.3	1128.4
77.5°	1453.3	1209.6	948.9	765.1	777.9	837.8	854.9	897.6	931.8	927.5	919.0
80°	880.5	756.6	641.2	495.8	491.6	538.6	649.7	722.4	739.5	701.0	696.7
82.5°	457.4	397.5	341.9	277.8	307.8	359.0	376.1	453.1	500.1	483.0	504.4
85°	115.4	111.1	124.0	128.2	158.2	175.2	192.3	226.5	149.6	72.7	72.7
87.5°	34.2	34.2	42.7	42.7	55.6	68.4	64.1	64.1	34.2	4.3	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)