

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: P841519

Luminaire Tested: **ARCH4-190-727-U-T3**

Issue Date: 5/27/2024

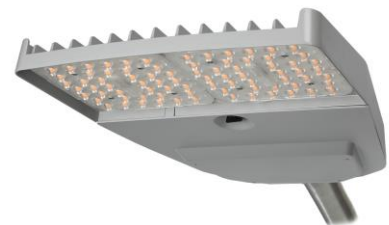
Test Information

Test Method: LM-79-08
Report Number: P841519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28814 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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



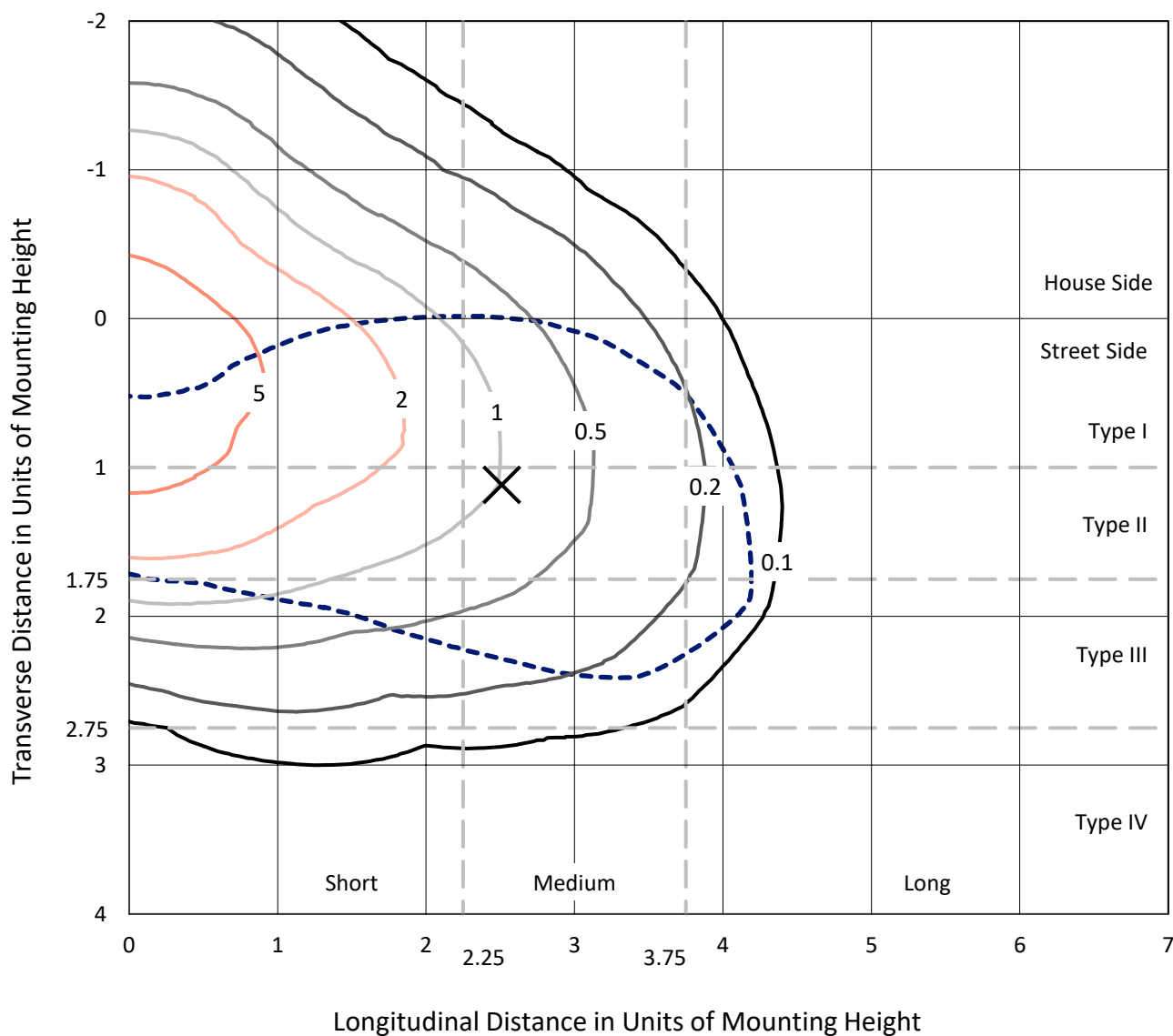
REPORT NUMBER: P841519

CATALOG NUMBER: ARCH4-190-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

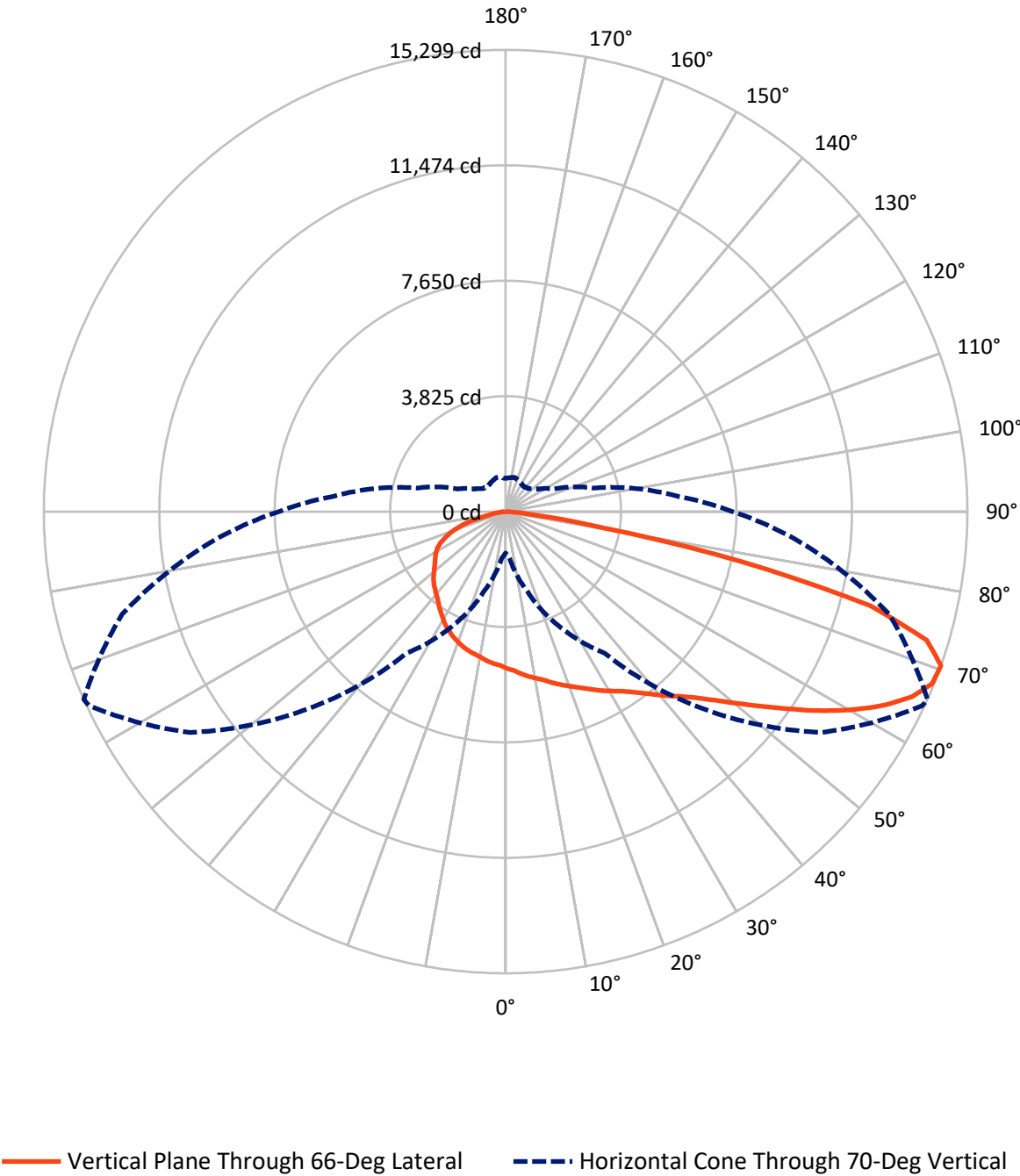
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Medium - N/A

REPORT NUMBER: P841519
CATALOG NUMBER: ARCH4-190-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841519

CATALOG NUMBER: ARCH4-190-727-U-T3

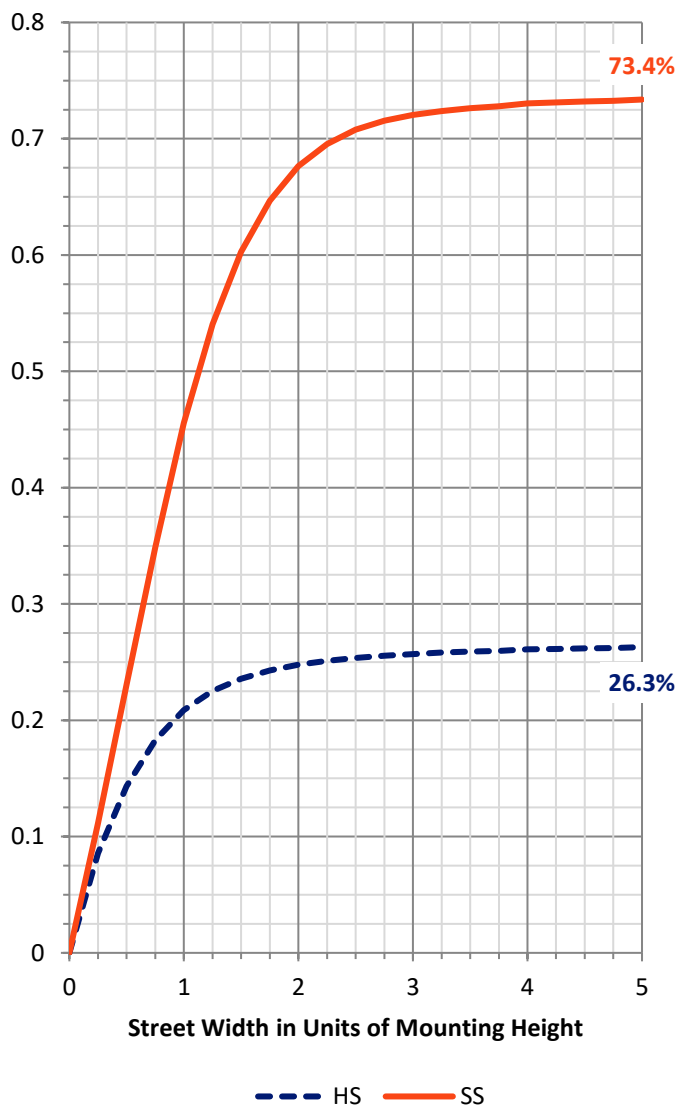
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7635.1	0.0	7635.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	21179.0	0.0	21179.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	28814.0	0.0	28814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.7	1.7
10°-20°	1498.9	5.2
20°-30°	2512.6	8.7
30°-40°	3762.2	13.1
40°-50°	5030.1	17.5
50°-60°	5872.9	20.4
60°-70°	5839.6	20.3
70°-80°	3457.2	12.0
80°-90°	340.8	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°	28814.0	100.0
0°-180°	28814.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841519

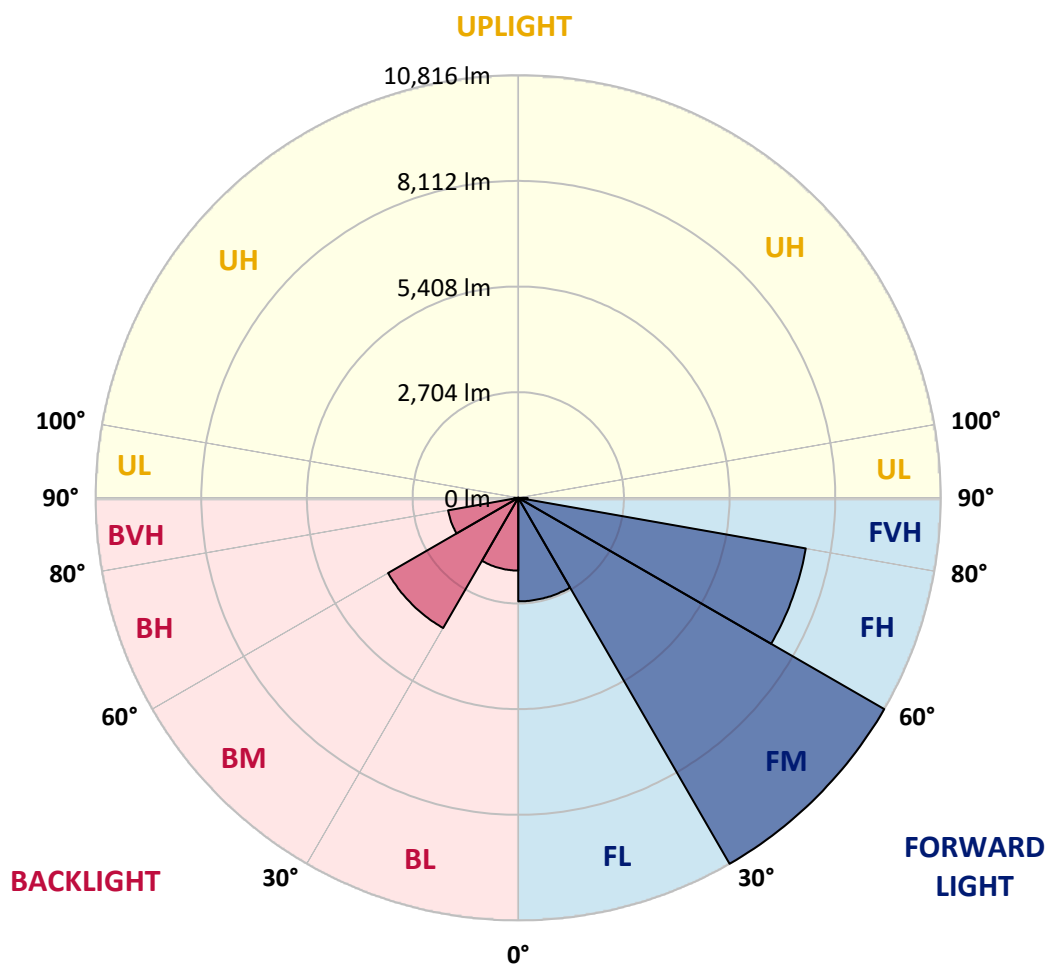
CATALOG NUMBER: ARCH4-190-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2650.1	9.2			
FM	(30°-60°)	10816.4	37.5			
FH	(60°-80°)	7473.0	25.9			G3/7500
FVH	(80°-90°)	239.5	0.8			G3/500
BL	(0°-30°)	1861.1	6.5	B3/2500		
BM	(30°-60°)	3848.9	13.4	B3/5000		
BH	(60°-80°)	1823.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	101.3	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-G3

Type III Medium



REPORT NUMBER: P841519

CATALOG NUMBER: ARCH4-190-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3
2.5°	5391.5	5383.0	5378.7	5361.7	5323.5	5340.5	5302.2	5276.7	5272.5	5213.0	5179.0
5°	5612.4	5608.1	5599.6	5574.1	5514.7	5523.2	5459.4	5412.7	5400.0	5306.5	5234.3
7.5°	5799.3	5790.8	5786.6	5752.6	5688.9	5684.6	5608.1	5540.2	5518.9	5391.5	5281.0
10°	5943.8	5931.0	5939.5	5905.5	5837.6	5824.8	5727.1	5637.9	5616.6	5455.2	5302.2
12.5°	6067.0	6058.5	6071.2	6041.5	5986.3	5973.5	5875.8	5761.1	5735.6	5548.7	5349.0
15°	6202.9	6173.2	6198.7	6185.9	6147.7	6143.5	6054.2	5926.8	5892.8	5667.6	5421.2
17.5°	6275.2	6258.2	6287.9	6292.2	6275.2	6304.9	6219.9	6067.0	6037.2	5778.1	5484.9
20°	6326.1	6300.7	6334.6	6360.1	6372.9	6432.4	6364.4	6215.7	6181.7	5884.3	5544.4
22.5°	6500.3	6445.1	6449.4	6466.3	6474.8	6559.8	6517.3	6372.9	6338.9	6016.0	5616.6
25°	6937.9	6827.5	6755.3	6704.3	6644.8	6717.0	6691.5	6551.3	6521.6	6173.2	5705.9
27.5°	7617.7	7477.5	7333.1	7184.4	6950.7	6920.9	6878.5	6751.0	6717.0	6330.4	5795.1
30°	8391.0	8250.8	8080.8	7842.9	7405.3	7175.9	7078.1	6937.9	6899.7	6470.6	5880.0
32.5°	9160.0	9036.7	8866.8	8577.9	7953.4	7486.0	7277.8	7133.4	7095.1	6623.5	5982.0
35°	9759.0	9682.5	9572.1	9210.9	8497.2	7851.4	7566.7	7392.5	7350.1	6865.7	6168.9
37.5°	10243.3	10188.1	10094.6	9716.5	8892.3	8216.8	7898.1	7698.4	7651.7	7129.1	6368.6
40°	10957.1	10812.7	10736.2	10188.1	9236.4	8548.2	8272.0	8063.8	8012.8	7409.5	6530.1
42.5°	11564.7	11458.4	11365.0	10608.7	9563.6	8832.8	8624.6	8433.4	8365.5	7685.7	6704.3
45°	11666.6	11709.1	11662.4	10816.9	10081.9	9113.2	8981.5	8858.3	8794.6	8059.6	6967.7
47.5°	11670.9	11670.9	11394.7	10935.9	10723.4	9427.6	9363.9	9406.4	9338.4	8535.4	7282.1
50°	11365.0	11420.2	11275.8	10965.6	10893.4	9742.0	9831.2	10060.7	9992.7	9041.0	7622.0
52.5°	10731.9	10914.6	10910.4	10918.9	10647.0	10009.7	10324.1	10846.6	10731.9	9610.3	7983.1
55°	9614.6	9979.9	10307.1	10587.5	10434.5	10171.1	10927.4	11683.6	11564.7	10247.6	8348.5
57.5°	8658.6	8892.3	9300.2	10094.6	10183.9	10311.3	11492.4	12558.8	12452.6	10952.9	8730.8
60°	7566.7	7889.6	8297.5	9427.6	9878.0	10494.0	12112.7	13412.8	13310.8	11666.6	9100.5
62.5°	5888.5	6304.9	7120.6	8403.7	9431.9	10608.7	12601.3	14164.8	14118.1	12342.1	9431.9
65°	4104.1	4473.8	5616.6	7146.1	8722.3	10557.7	12992.2	14836.1	14793.6	12894.5	9665.5
67.5°	2396.2	2825.3	4116.9	5752.6	7469.0	10205.1	13119.6	15231.2	15231.2	13230.1	9729.3
70°	1368.0	1567.7	2714.8	4193.4	5727.1	9232.2	12762.8	15226.9	15299.2	13153.6	9465.9
72.5°	955.9	1045.2	1826.9	2821.1	3883.2	7469.0	11828.1	14491.9	14589.6	12431.4	8565.2
75°	743.5	807.2	1287.3	1924.6	2447.2	5072.8	9784.5	12218.9	12478.1	10596.0	6925.2
77.5°	565.1	611.8	752.0	1202.4	1567.7	2914.5	6457.9	8012.8	8029.8	6487.6	3713.3
80°	412.1	458.8	501.3	735.0	832.7	1363.8	2438.7	3347.9	3254.4	3139.7	2009.6
82.5°	246.4	293.2	305.9	399.4	407.9	582.1	854.0	1079.1	1036.7	1380.8	943.2
85°	106.2	148.7	157.2	182.7	174.2	237.9	339.9	284.7	254.9	293.2	203.9
87.5°	25.5	42.5	42.5	46.7	38.2	59.5	63.7	46.7	42.5	51.0	51.0
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: P841519

CATALOG NUMBER: ARCH4-190-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3
2.5°	5170.5	5157.8	5162.0	5089.8	5068.6	5047.3	5034.6	5026.1	5017.6	5030.3	5043.1
5°	5208.8	5179.0	5145.0	5038.8	4996.3	4949.6	4915.6	4885.9	4873.1	4873.1	4885.9
7.5°	5238.5	5187.5	5115.3	4975.1	4898.6	4834.9	4779.7	4741.4	4720.2	4720.2	4732.9
10°	5242.8	5170.5	5055.8	4885.9	4783.9	4690.4	4626.7	4584.2	4554.5	4554.5	4563.0
12.5°	5268.2	5170.5	5021.8	4817.9	4690.4	4575.7	4499.3	4435.5	4422.8	4422.8	4431.3
15°	5310.7	5191.8	5000.6	4758.4	4605.5	4473.8	4388.8	4320.8	4295.3	4312.3	4316.6
17.5°	5349.0	5204.5	4962.3	4681.9	4499.3	4354.8	4261.3	4201.9	4167.9	4206.1	4206.1
20°	5374.5	5204.5	4907.1	4584.2	4384.5	4223.1	4133.9	4061.6	4036.2	4082.9	4087.1
22.5°	5412.7	5200.3	4847.6	4486.5	4261.3	4091.4	4002.2	3946.9	3934.2	3985.2	4002.2
25°	5455.2	5208.8	4783.9	4376.0	4125.4	3959.7	3891.7	3866.2	3874.7	3938.4	3959.7
27.5°	5501.9	5225.8	4720.2	4252.8	3976.7	3828.0	3789.7	3802.5	3836.5	3917.2	3942.7
30°	5544.4	5230.0	4631.0	4108.4	3806.7	3666.5	3683.5	3738.8	3789.7	3870.5	3900.2
32.5°	5599.6	5234.3	4537.5	3951.2	3624.0	3522.1	3598.6	3687.8	3738.8	3815.2	3849.2
35°	5735.6	5306.5	4465.3	3798.2	3454.1	3398.9	3526.3	3641.0	3670.8	3738.8	3768.5
37.5°	5892.8	5425.4	4427.0	3641.0	3288.4	3275.7	3437.1	3551.8	3560.3	3602.8	3632.5
40°	5990.5	5476.4	4384.5	3509.3	3139.7	3148.2	3313.9	3403.1	3386.1	3415.9	3437.1
42.5°	6088.2	5493.4	4295.3	3398.9	2999.5	3008.0	3135.5	3199.2	3207.7	3271.4	3301.2
45°	6253.9	5540.2	4197.6	3296.9	2872.0	2842.3	2918.8	3003.8	3114.2	3237.4	3271.4
47.5°	6474.8	5637.9	4095.6	3173.7	2748.8	2651.1	2680.9	2829.6	2944.3	3059.0	3080.2
50°	6700.0	5735.6	4002.2	3025.0	2625.6	2447.2	2459.9	2595.9	2689.4	2778.6	2791.3
52.5°	6920.9	5820.6	3921.4	2884.8	2485.4	2205.0	2256.0	2396.2	2459.9	2502.4	2515.2
55°	7141.9	5892.8	3849.2	2765.8	2324.0	2013.8	2060.6	2192.3	2256.0	2277.2	2285.7
57.5°	7371.3	5977.8	3794.0	2663.9	2141.3	1843.9	1873.6	1967.1	2026.6	2052.1	2043.6
60°	7562.5	6050.0	3764.2	2557.6	1958.6	1686.7	1678.2	1763.2	1848.1	1873.6	1865.1
62.5°	7711.2	6096.7	3717.5	2421.7	1797.2	1529.5	1487.0	1597.5	1686.7	1703.7	1716.4
65°	7791.9	6101.0	3602.8	2247.5	1631.5	1359.5	1329.8	1440.3	1495.5	1512.5	1512.5
67.5°	7779.2	6033.0	3377.6	2013.8	1478.5	1206.6	1181.1	1249.1	1329.8	1342.6	1329.8
70°	7515.8	5752.6	3016.5	1767.4	1295.8	1070.6	1023.9	1091.9	1168.4	1121.6	1100.4
72.5°	6768.0	5026.1	2485.4	1495.5	1091.9	900.7	879.5	947.4	951.7	960.2	938.9
75°	5340.5	3743.0	1860.9	1164.1	883.7	756.2	752.0	739.3	756.2	790.2	764.7
77.5°	2804.1	1869.4	1006.9	713.8	641.5	607.5	577.8	573.6	624.5	645.8	620.3
80°	1521.0	1049.4	577.8	429.1	390.9	395.1	433.4	424.9	480.1	492.8	471.6
82.5°	662.8	497.1	284.7	259.2	259.2	254.9	267.7	297.4	356.9	356.9	284.7
85°	144.5	123.2	110.5	127.5	144.5	144.5	144.5	144.5	102.0	55.2	38.2
87.5°	46.7	46.7	46.7	51.0	55.2	55.2	46.7	34.0	21.2	4.2	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)