

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: P841618

Luminaire Tested: **ARCH4-200-740-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841618
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: ARCH4-200-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32890 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7
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

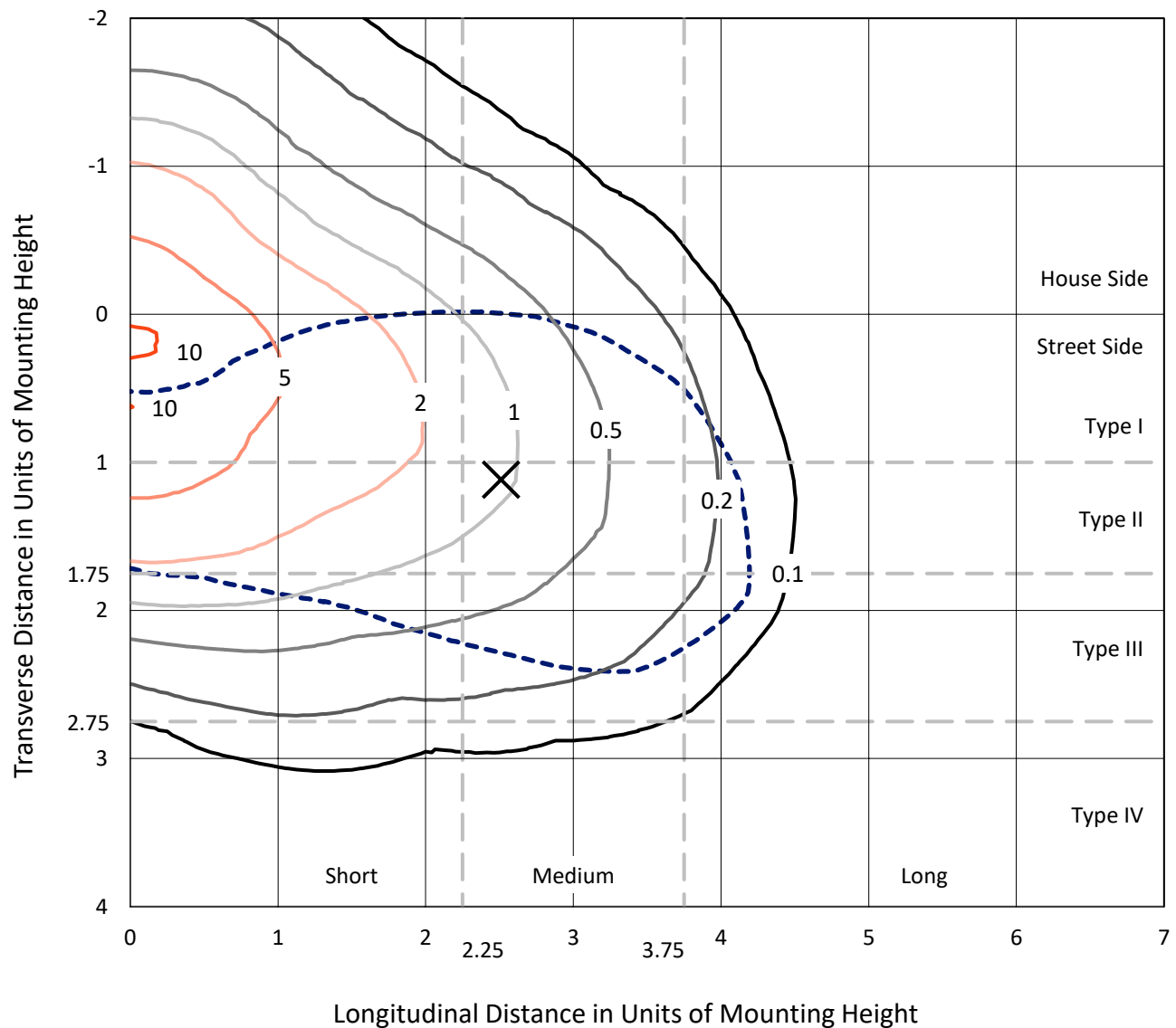


REPORT NUMBER: P841618

CATALOG NUMBER: ARCH4-200-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

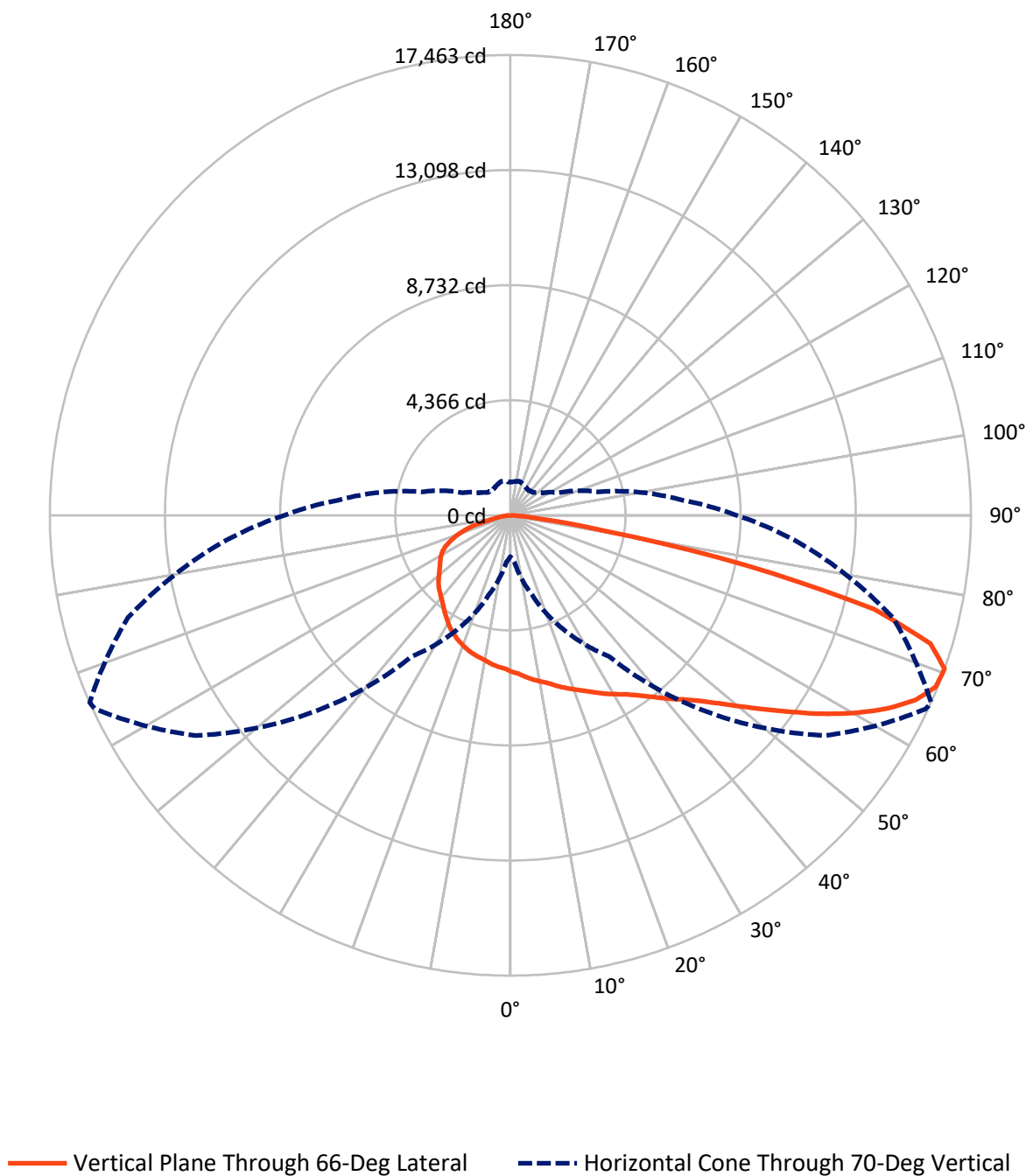
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Medium - N/A

REPORT NUMBER: P841618
CATALOG NUMBER: ARCH4-200-740-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841618

CATALOG NUMBER: ARCH4-200-740-U-T3

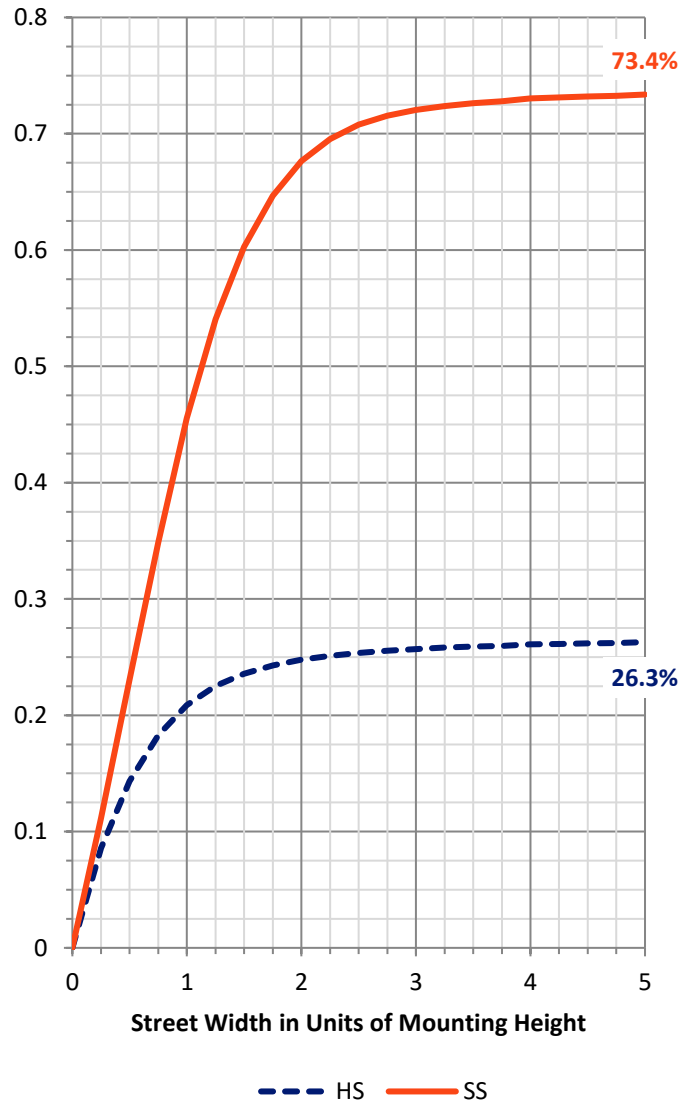
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8715.1	0.0	8715.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	24174.9	0.0	24174.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	32890.0	0.0	32890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	1.7
10°-20°	1710.9	5.2
20°-30°	2868.1	8.7
30°-40°	4294.5	13.1
40°-50°	5741.7	17.5
50°-60°	6703.6	20.4
60°-70°	6665.7	20.3
70°-80°	3946.2	12.0
80°-90°	388.9	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°	32890.0	100.0
0°-180°	32890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841618

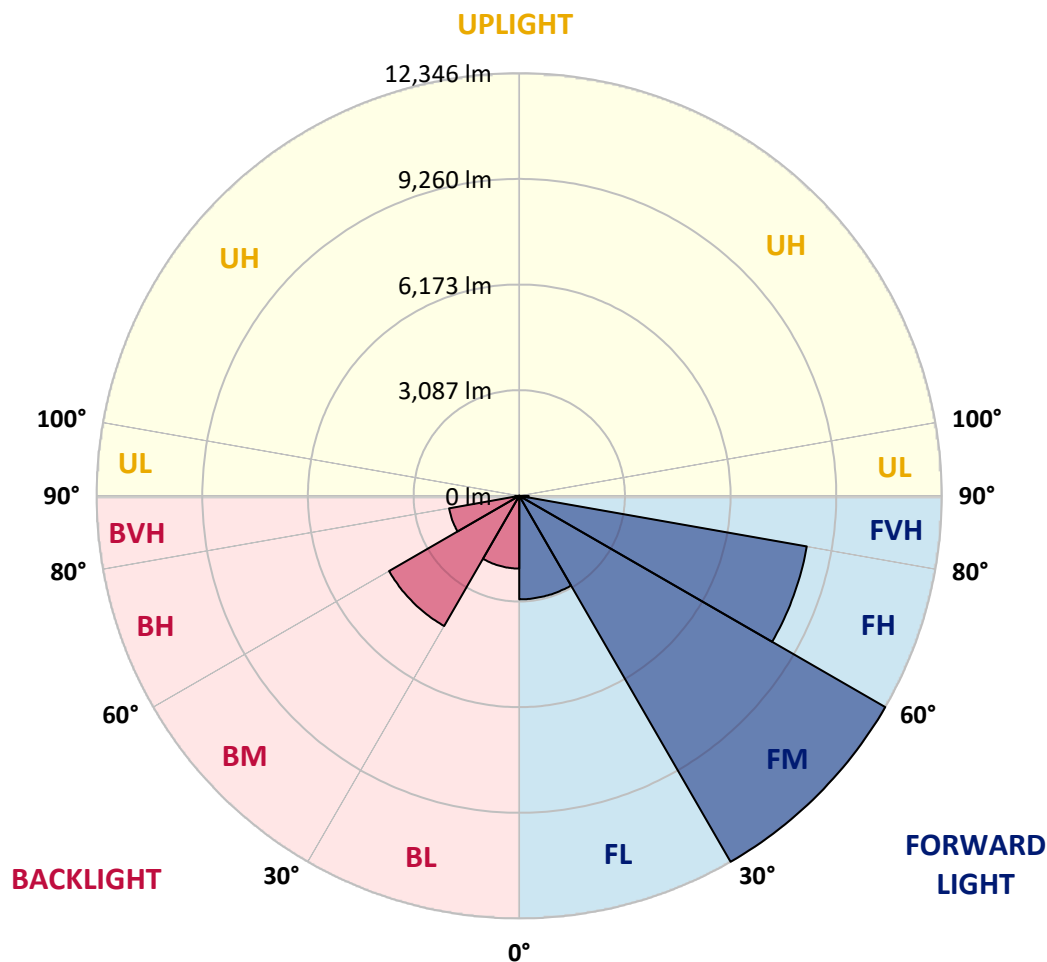
CATALOG NUMBER: ARCH4-200-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3025.0	9.2			
FM	(30°-60°)	12346.5	37.5			
FH	(60°-80°)	8530.1	25.9			G4/12000
FVH	(80°-90°)	273.3	0.8			G3/500
BL	(0°-30°)	2124.4	6.5	B3/2500		
BM	(30°-60°)	4393.3	13.4	B3/5000		
BH	(60°-80°)	2081.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	115.6	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 III Medium



REPORT NUMBER: P841618

CATALOG NUMBER: ARCH4-200-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9
2.5°	6154.1	6144.4	6139.6	6120.2	6076.5	6095.9	6052.3	6023.2	6018.3	5950.4	5911.6
5°	6406.3	6401.5	6391.8	6362.7	6294.8	6304.5	6231.7	6178.4	6163.8	6057.1	5974.7
7.5°	6619.7	6610.0	6605.1	6566.3	6493.6	6488.7	6401.5	6323.9	6299.6	6154.1	6028.0
10°	6784.6	6770.0	6779.7	6740.9	6663.3	6648.8	6537.2	6435.4	6411.2	6226.9	6052.3
12.5°	6925.2	6915.5	6930.1	6896.1	6833.1	6818.5	6707.0	6576.0	6546.9	6333.6	6105.6
15°	7080.4	7046.5	7075.5	7061.0	7017.4	7012.5	6910.7	6765.2	6726.4	6469.4	6188.1
17.5°	7162.8	7143.4	7177.4	7182.2	7162.8	7196.8	7099.8	6925.2	6891.3	6595.4	6260.8
20°	7221.0	7191.9	7230.7	7259.8	7274.4	7342.3	7264.7	7094.9	7056.2	6716.7	6328.7
22.5°	7419.9	7356.8	7361.7	7381.1	7390.8	7487.8	7439.3	7274.4	7235.6	6867.0	6411.2
25°	7919.4	7793.3	7710.8	7652.7	7584.8	7667.2	7638.1	7478.1	7444.1	7046.5	6513.0
27.5°	8695.3	8535.3	8370.4	8200.7	7933.9	7900.0	7851.5	7706.0	7667.2	7225.9	6614.8
30°	9577.9	9417.9	9223.9	8952.3	8452.8	8191.0	8079.4	7919.4	7875.7	7385.9	6711.8
32.5°	10455.7	10315.1	10121.1	9791.3	9078.4	8545.0	8307.3	8142.5	8098.8	7560.5	6828.2
35°	11139.5	11052.2	10926.1	10513.9	9699.2	8962.0	8637.1	8438.3	8389.8	7836.9	7041.6
37.5°	11692.4	11629.3	11522.6	11091.0	10150.2	9379.1	9015.4	8787.5	8734.1	8137.6	7269.5
40°	12507.1	12342.2	12254.9	11629.3	10543.0	9757.4	9442.1	9204.5	9146.3	8457.7	7453.8
42.5°	13200.6	13079.3	12972.6	12109.4	10916.4	10082.3	9844.7	9626.4	9548.8	8772.9	7652.7
45°	13317.0	13365.5	13312.1	12347.1	11508.1	10402.4	10252.0	10111.4	10038.6	9199.7	7953.3
47.5°	13321.8	13321.8	13006.6	12482.8	12240.4	10761.2	10688.5	10737.0	10659.4	9742.8	8312.2
50°	12972.6	13035.7	12870.8	12516.8	12434.3	11120.1	11221.9	11483.8	11406.2	10319.9	8700.2
52.5°	12250.1	12458.6	12453.7	12463.4	12153.1	11425.6	11784.5	12381.0	12250.1	10969.8	9112.4
55°	10974.6	11391.7	11765.1	12085.2	11910.6	11609.9	12473.1	13336.4	13200.6	11697.2	9529.4
57.5°	9883.5	10150.2	10615.7	11522.6	11624.5	11770.0	13118.1	14335.4	14214.1	12502.2	9965.9
60°	8637.1	9005.7	9471.2	10761.2	11275.3	11978.5	13826.2	15310.2	15193.8	13317.0	10387.8
62.5°	6721.5	7196.8	8127.9	9592.5	10766.1	12109.4	14383.9	16168.5	16115.2	14088.1	10766.1
65°	4684.7	5106.6	6411.2	8157.0	9956.2	12051.2	14830.0	16934.8	16886.3	14718.5	11032.8
67.5°	2735.2	3225.0	4699.3	6566.3	8525.6	11648.7	14975.5	17385.8	17385.8	15101.6	11105.6
70°	1561.6	1789.5	3098.9	4786.5	6537.2	10538.2	14568.2	17380.9	17463.4	15014.3	10804.9
72.5°	1091.2	1193.0	2085.3	3220.1	4432.5	8525.6	13501.3	16541.9	16653.5	14189.9	9776.8
75°	848.7	921.4	1469.4	2196.9	2793.4	5790.4	11168.6	13947.4	14243.2	12094.9	7904.8
77.5°	645.0	698.3	858.4	1372.4	1789.5	3326.8	7371.4	9146.3	9165.7	7405.3	4238.5
80°	470.4	523.8	572.3	839.0	950.5	1556.7	2783.7	3821.5	3714.8	3583.8	2293.9
82.5°	281.3	334.6	349.2	455.9	465.6	664.4	974.8	1231.8	1183.3	1576.1	1076.6
85°	121.2	169.7	179.4	208.5	198.8	271.6	388.0	324.9	291.0	334.6	232.8
87.5°	29.1	48.5	48.5	53.3	43.6	67.9	72.7	53.3	48.5	58.2	58.2
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: P841618

CATALOG NUMBER: ARCH4-200-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9	5935.9
2.5°	5901.9	5887.4	5892.2	5809.8	5785.6	5761.3	5746.8	5737.1	5727.4	5741.9	5756.5
5°	5945.6	5911.6	5872.9	5751.6	5703.1	5649.8	5611.0	5577.0	5562.5	5562.5	5577.0
7.5°	5979.5	5921.3	5838.9	5678.9	5591.6	5518.8	5455.8	5412.1	5387.9	5387.9	5402.4
10°	5984.4	5901.9	5771.0	5577.0	5460.6	5353.9	5281.2	5232.7	5198.8	5198.8	5208.5
12.5°	6013.5	5901.9	5732.2	5499.4	5353.9	5223.0	5135.7	5063.0	5048.4	5048.4	5058.1
15°	6062.0	5926.2	5708.0	5431.5	5257.0	5106.6	5009.6	4932.0	4902.9	4922.3	4927.2
17.5°	6105.6	5940.7	5664.3	5344.2	5135.7	4970.8	4864.1	4796.2	4757.4	4801.1	4801.1
20°	6134.7	5940.7	5601.3	5232.7	5004.8	4820.5	4718.6	4636.2	4607.1	4660.5	4665.3
22.5°	6178.4	5935.9	5533.4	5121.2	4864.1	4670.2	4568.3	4505.3	4490.7	4548.9	4568.3
25°	6226.9	5945.6	5460.6	4995.1	4709.0	4519.8	4442.2	4413.1	4422.8	4495.6	4519.8
27.5°	6280.2	5965.0	5387.9	4854.4	4539.2	4369.5	4325.8	4340.4	4379.2	4471.3	4500.4
30°	6328.7	5969.8	5286.1	4689.6	4345.2	4185.2	4204.6	4267.6	4325.8	4418.0	4451.9
32.5°	6391.8	5974.7	5179.4	4510.1	4136.7	4020.3	4107.6	4209.4	4267.6	4354.9	4393.7
35°	6546.9	6057.1	5096.9	4335.5	3942.7	3879.7	4025.2	4156.1	4190.0	4267.6	4301.6
37.5°	6726.4	6192.9	5053.3	4156.1	3753.6	3739.0	3923.3	4054.3	4064.0	4112.5	4146.4
40°	6837.9	6251.1	5004.8	4005.8	3583.8	3593.5	3782.7	3884.5	3865.1	3899.1	3923.3
42.5°	6949.5	6270.5	4902.9	3879.7	3423.8	3433.5	3579.0	3651.7	3661.4	3734.2	3768.1
45°	7138.6	6323.9	4791.4	3763.3	3278.3	3244.4	3331.7	3428.7	3554.7	3695.4	3734.2
47.5°	7390.8	6435.4	4675.0	3622.6	3137.7	3026.1	3060.1	3229.8	3360.8	3491.7	3516.0
50°	7647.8	6546.9	4568.3	3452.9	2997.0	2793.4	2807.9	2963.1	3069.8	3171.6	3186.2
52.5°	7900.0	6643.9	4476.2	3292.9	2837.0	2516.9	2575.1	2735.2	2807.9	2856.4	2871.0
55°	8152.2	6726.4	4393.7	3157.1	2652.7	2298.7	2352.1	2502.4	2575.1	2599.4	2609.1
57.5°	8414.0	6823.4	4330.7	3040.7	2444.2	2104.7	2138.7	2245.4	2313.3	2342.4	2332.7
60°	8632.3	6905.8	4296.7	2919.5	2235.7	1925.3	1915.6	2012.6	2109.6	2138.7	2129.0
62.5°	8802.0	6959.2	4243.4	2764.3	2051.4	1745.9	1697.4	1823.4	1925.3	1944.7	1959.2
65°	8894.1	6964.0	4112.5	2565.4	1862.2	1551.9	1517.9	1644.0	1707.1	1726.5	1726.5
67.5°	8879.6	6886.4	3855.4	2298.7	1687.7	1377.3	1348.2	1425.8	1517.9	1532.5	1517.9
70°	8578.9	6566.3	3443.2	2017.4	1479.1	1222.1	1168.8	1246.3	1333.6	1280.3	1256.0
72.5°	7725.4	5737.1	2837.0	1707.1	1246.3	1028.1	1003.9	1081.5	1086.3	1096.0	1071.8
75°	6095.9	4272.5	2124.1	1328.8	1008.7	863.2	858.4	843.8	863.2	902.0	872.9
77.5°	3200.7	2133.8	1149.4	814.7	732.3	693.5	659.5	654.7	712.9	737.1	708.0
80°	1736.2	1197.8	659.5	489.8	446.2	451.0	494.7	485.0	548.0	562.6	538.3
82.5°	756.5	567.4	324.9	295.8	295.8	291.0	305.5	339.5	407.4	407.4	324.9
85°	164.9	140.6	126.1	145.5	164.9	164.9	164.9	164.9	116.4	63.0	43.6
87.5°	53.3	53.3	53.3	58.2	63.0	63.0	53.3	38.8	24.2	4.8	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)