

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: P842318

Luminaire Tested: **ARCH4-300-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41997 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

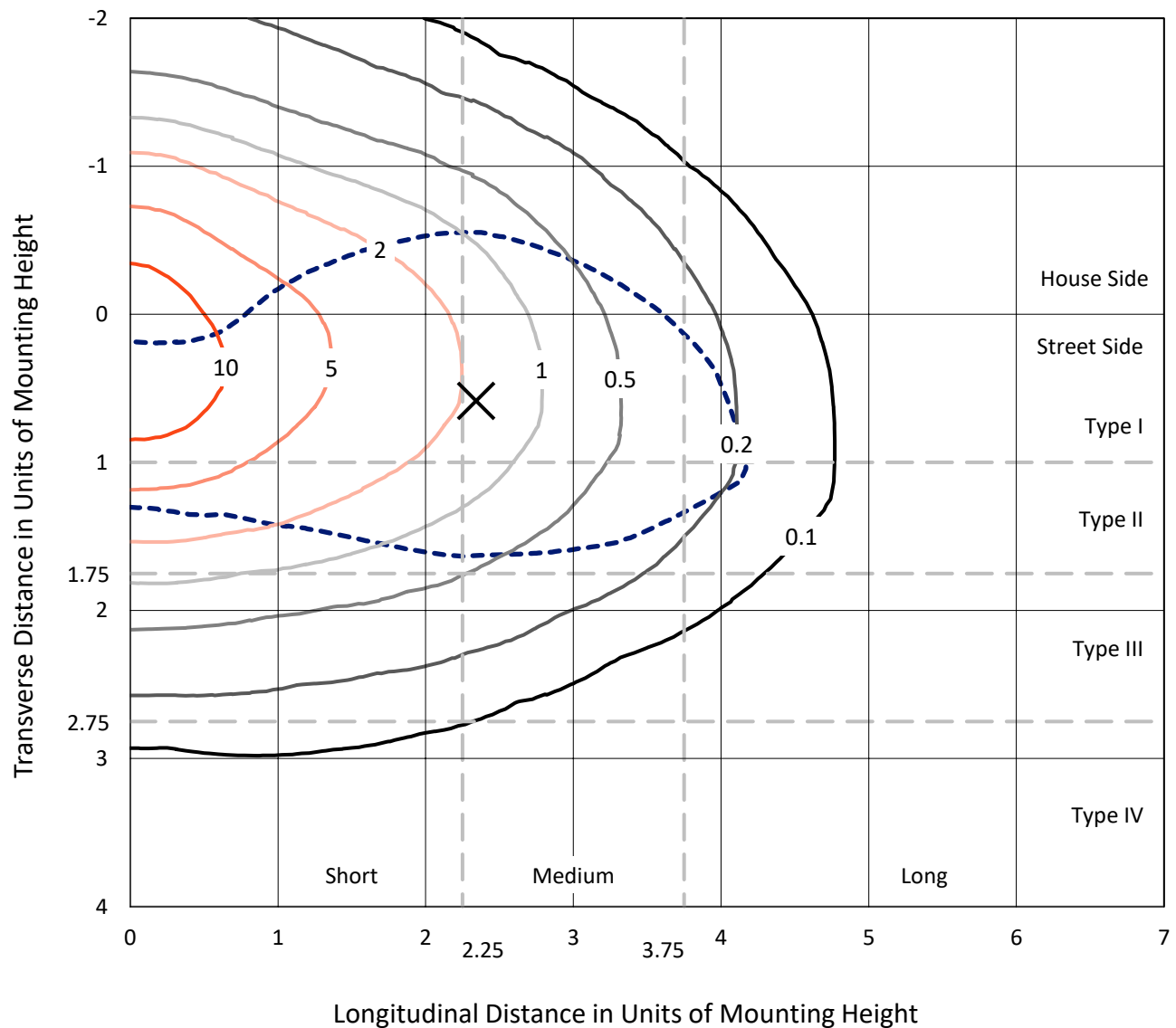
Input Watts (W): 299.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842318
CATALOG NUMBER: ARCH4-300-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

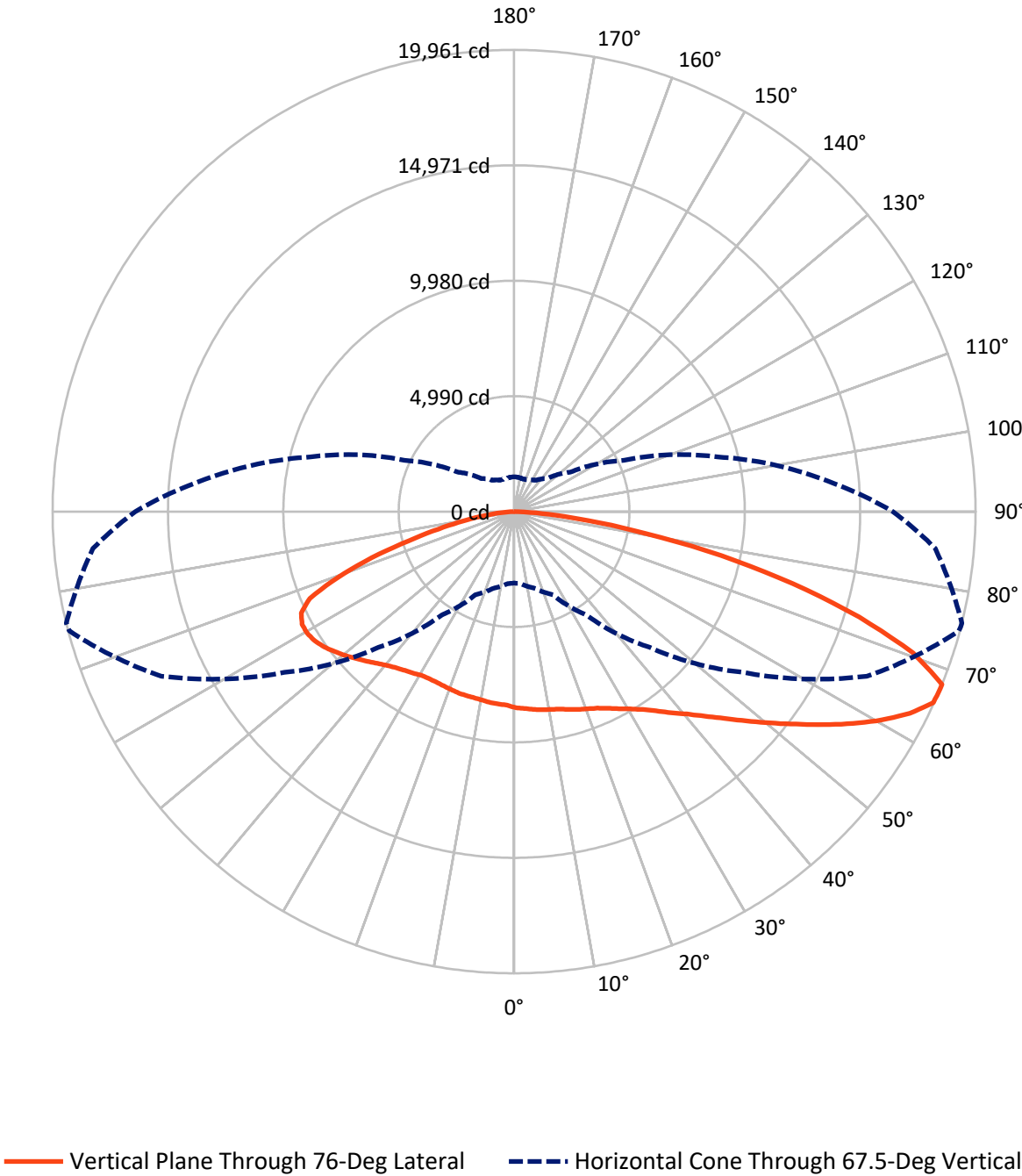
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

REPORT NUMBER: P842318
CATALOG NUMBER: ARCH4-300-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P842318

CATALOG NUMBER: ARCH4-300-730-U-T2U

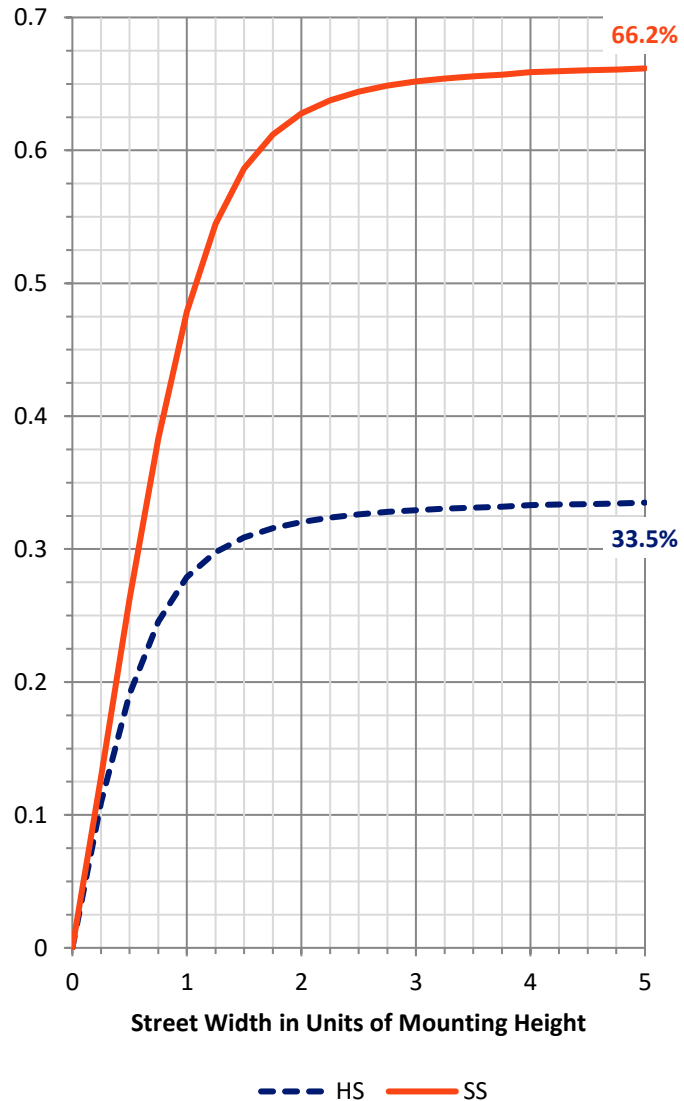
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14191.0	0.0	14191.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	27806.0	0.0	27806.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	41997.0	0.0	41997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.0	1.9
10°-20°	2500.9	6.0
20°-30°	4249.0	10.1
30°-40°	6045.8	14.4
40°-50°	7635.6	18.2
50°-60°	8267.0	19.7
60°-70°	7689.2	18.3
70°-80°	4129.8	9.8
80°-90°	661.8	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°	41997.0	100.0
0°-180°	41997.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842318

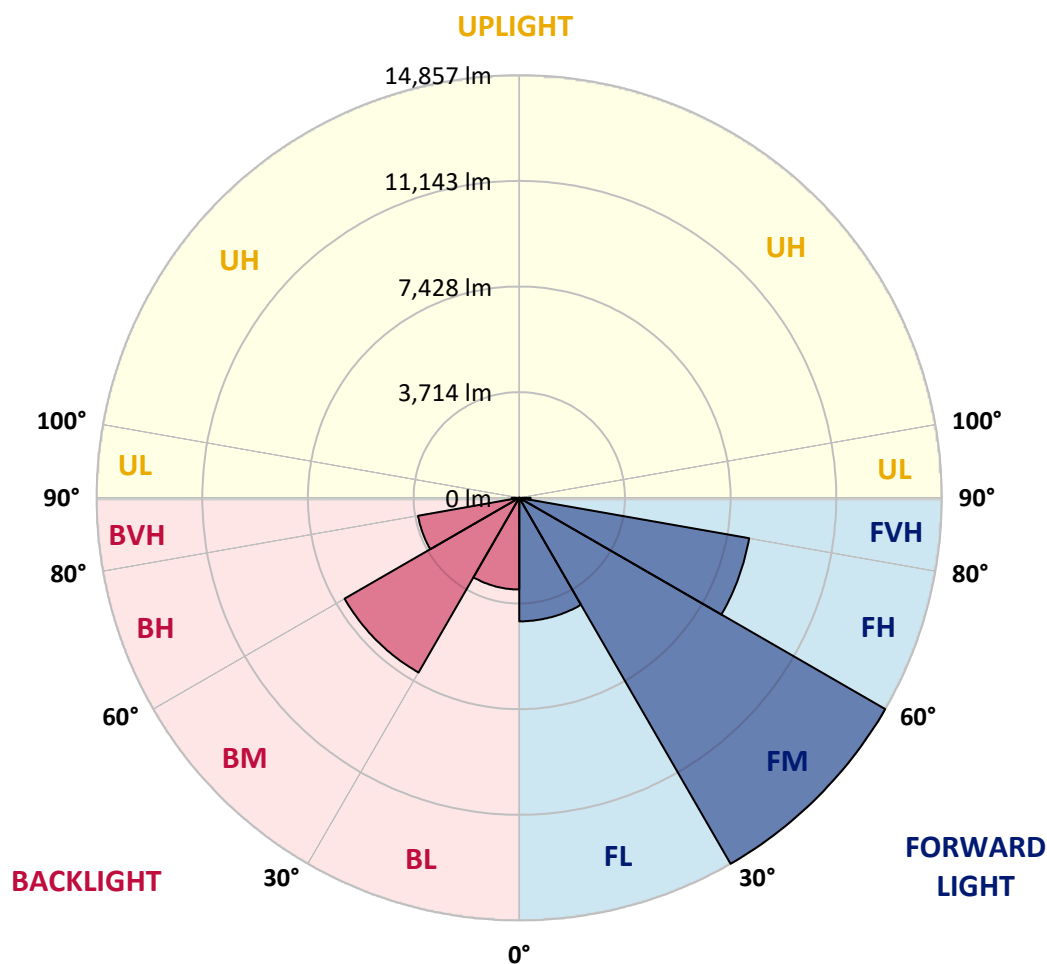
CATALOG NUMBER: ARCH4-300-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4342.9	10.3			
FM	(30°-60°)	14856.9	35.4			
FH	(60°-80°)	8205.8	19.5			G4/12000
FVH	(80°-90°)	400.3	1.0			G3/500
BL	(0°-30°)	3225.0	7.7	B4/5000		
BM	(30°-60°)	7091.4	16.9	B4/8500		
BH	(60°-80°)	3613.2	8.6	B4/5000		G4/5000
BVH	(80°-90°)	261.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P842318

CATALOG NUMBER: ARCH4-300-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3
2.5°	8740.6	8725.0	8662.6	8670.4	8670.4	8662.6	8569.1	8530.1	8530.1	8522.3	8436.5
5°	9052.5	9029.1	8958.9	8943.3	8912.1	8873.2	8725.0	8639.2	8600.3	8592.5	8475.5
7.5°	9419.0	9387.8	9302.0	9255.2	9177.2	9075.9	8888.8	8756.2	8662.6	8654.8	8491.1
10°	9785.4	9754.2	9652.9	9567.1	9457.9	9294.2	9052.5	8857.6	8709.4	8693.8	8498.9
12.5°	10222.1	10190.9	10066.1	9957.0	9793.2	9574.9	9255.2	8990.1	8787.4	8764.0	8522.3
15°	10682.1	10635.3	10510.6	10385.8	10183.1	9902.4	9520.3	9169.5	8912.1	8873.2	8592.5
17.5°	11064.2	11001.8	10900.4	10775.7	10549.5	10222.1	9785.4	9348.8	9029.1	8997.9	8662.6
20°	11391.6	11344.9	11235.7	11118.7	10877.0	10518.4	10034.9	9528.1	9138.3	9099.3	8717.2
22.5°	11703.5	11641.1	11578.8	11493.0	11227.9	10830.2	10323.4	9746.4	9278.6	9231.8	8787.4
25°	12062.2	11992.0	11968.6	11921.8	11610.0	11204.5	10674.3	10019.3	9473.5	9419.0	8912.1
27.5°	12506.6	12428.7	12381.9	12381.9	12007.6	11586.6	11048.6	10339.0	9699.7	9652.9	9068.1
30°	12974.5	12880.9	12810.7	12810.7	12389.7	11968.6	11415.0	10658.7	9957.0	9902.4	9270.8
32.5°	13387.7	13294.1	13216.2	13208.4	12771.7	12350.7	11797.1	11009.6	10268.8	10198.7	9520.3
35°	13707.4	13621.6	13551.5	13567.0	13153.8	12740.5	12225.9	11477.4	10658.7	10580.7	9847.8
37.5°	13902.3	13871.1	13832.1	13886.7	13504.7	13114.8	12670.4	11929.6	11103.1	11033.0	10253.3
40°	14003.7	13980.3	14136.2	14206.4	13801.0	13450.1	13114.8	12397.5	11586.6	11508.6	10721.1
42.5°	14151.8	14346.8	14409.1	14393.5	14019.3	13707.4	13520.3	12904.3	12155.8	12085.6	11282.5
45°	13621.6	13574.8	13917.9	14105.0	14034.9	13871.1	13902.3	13512.5	12818.5	12748.3	11929.6
47.5°	12912.1	12849.7	13044.6	13504.7	13777.6	13933.5	14245.4	14144.0	13582.6	13520.3	12686.0
50°	11415.0	11500.8	12225.9	12841.9	13379.9	13917.9	14533.9	14822.4	14424.7	14362.4	13496.9
52.5°	9754.2	9840.0	10596.3	12015.4	12896.5	13801.0	14744.4	15500.7	15337.0	15266.8	14362.4
55°	8545.7	8732.8	9590.5	10619.7	12210.3	13434.5	14869.2	16194.7	16319.4	16257.1	15305.8
57.5°	7344.9	7485.3	8132.4	9044.7	11274.7	12795.1	14861.4	16841.8	17348.7	17286.3	16264.9
60°	5933.6	6113.0	6627.6	7610.0	10027.1	12031.0	14643.1	17348.7	18338.9	18292.1	17192.7
62.5°	4966.8	5021.4	5387.8	6237.7	8420.9	11064.2	14151.8	17621.6	19235.6	19204.4	18027.0
65°	3999.9	4007.7	4343.0	5052.6	6869.3	9863.4	13317.5	17520.2	19913.9	19929.5	18627.4
67.5°	3087.7	3126.7	3430.7	3968.8	5458.0	8304.0	12124.6	16834.1	19921.7	19960.7	18284.3
70°	2136.4	2167.6	2627.6	3150.0	4218.3	6619.8	10510.6	15017.3	18284.3	18315.5	16389.6
72.5°	1504.9	1520.4	2011.7	2518.5	3298.2	4990.2	7929.7	12420.9	15586.5	15609.9	13785.4
75°	1122.8	1138.4	1419.1	1910.3	2526.3	3454.1	5419.0	9512.5	12452.1	12452.1	10884.8
77.5°	795.3	803.1	920.1	1317.7	1684.2	2331.3	3259.2	6229.9	9138.3	9153.9	7929.7
80°	538.0	545.8	600.4	888.9	1052.6	1263.1	1770.0	3267.0	5762.1	5785.5	5037.0
82.5°	280.7	296.3	335.3	452.2	530.2	701.7	912.3	1660.8	3189.0	3251.4	3025.3
85°	109.2	109.2	124.8	148.1	194.9	272.9	421.0	631.6	1442.5	1489.3	1333.3
87.5°	39.0	39.0	46.8	46.8	54.6	62.4	70.2	93.6	163.7	163.7	155.9
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: P842318

CATALOG NUMBER: ARCH4-300-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3	8483.3
2.5°	8405.3	8405.3	8366.3	8381.9	8374.1	8358.5	8343.0	8366.3	8343.0	8288.4	8280.6
5°	8420.9	8405.3	8343.0	8335.2	8311.8	8280.6	8241.6	8257.2	8218.2	8171.4	8163.6
7.5°	8428.7	8397.5	8311.8	8280.6	8233.8	8171.4	8109.0	8109.0	8054.5	8007.7	7999.9
10°	8413.1	8374.1	8257.2	8194.8	8109.0	8015.5	7929.7	7906.3	7843.9	7789.4	7789.4
12.5°	8420.9	8366.3	8218.2	8116.8	7999.9	7882.9	7773.8	7742.6	7688.0	7633.4	7625.6
15°	8467.7	8389.7	8202.6	8070.1	7898.5	7766.0	7649.0	7625.6	7578.8	7539.8	7539.8
17.5°	8514.5	8413.1	8179.2	7992.1	7781.6	7633.4	7524.3	7524.3	7493.1	7469.7	7469.7
20°	8537.9	8420.9	8132.4	7882.9	7641.2	7485.3	7383.9	7399.5	7391.7	7383.9	7383.9
22.5°	8592.5	8436.5	8093.4	7781.6	7493.1	7329.3	7235.8	7259.1	7251.4	7251.4	7259.1
25°	8678.2	8475.5	8062.3	7688.0	7352.7	7173.4	7072.0	7087.6	7087.6	7087.6	7087.6
27.5°	8795.2	8553.5	8054.5	7602.2	7212.4	7009.6	6884.9	6884.9	6853.7	6861.5	6869.3
30°	8974.5	8701.6	8070.1	7524.3	7064.2	6806.9	6658.8	6635.4	6627.6	6643.2	6651.0
32.5°	9192.8	8904.3	8163.6	7469.7	6908.3	6580.8	6393.7	6385.9	6362.5	6362.5	6362.5
35°	9465.7	9099.3	8249.4	7461.9	6752.3	6339.1	6136.4	6113.0	6058.4	6035.0	6035.0
37.5°	9816.6	9403.4	8350.7	7407.3	6619.8	6105.2	5863.5	5785.5	5723.1	5715.3	5715.3
40°	10245.5	9746.4	8498.9	7344.9	6479.4	5863.5	5543.8	5411.2	5419.0	5450.2	5450.2
42.5°	10752.3	10167.5	8686.0	7313.7	6276.7	5613.9	5169.5	5013.6	5068.1	5099.3	5107.1
45°	11344.9	10666.5	8896.6	7274.7	6089.6	5333.3	4771.9	4576.9	4600.3	4608.1	4615.9
47.5°	12031.0	11220.1	9114.9	7243.6	5879.1	4982.4	4335.2	4077.9	4070.1	4023.3	4038.9
50°	12748.3	11804.9	9341.0	7189.0	5621.7	4569.1	3875.2	3571.1	3508.7	3438.5	3446.3
52.5°	13512.5	12405.3	9551.5	7103.2	5302.1	4148.1	3438.5	3111.1	2986.3	2908.3	2923.9
55°	14354.6	13021.2	9754.2	6970.7	4966.8	3727.0	3048.7	2713.4	2557.5	2495.1	2502.9
57.5°	15126.5	13613.8	9902.4	6806.9	4600.3	3345.0	2705.6	2378.1	2276.8	2269.0	2276.8
60°	15875.0	14112.8	9964.8	6580.8	4226.1	2994.1	2385.9	2136.4	2066.2	2105.2	2113.0
62.5°	16506.6	14432.5	9933.6	6276.7	3844.0	2658.8	2128.6	1949.3	1902.5	1980.5	1988.3
65°	16873.0	14533.9	9715.3	5840.1	3430.7	2331.3	1886.9	1692.0	1668.6	1715.4	1738.8
67.5°	16389.6	13902.3	9122.7	5239.7	2970.7	2027.3	1653.0	1497.1	1458.1	1497.1	1497.1
70°	14526.1	12046.6	7719.2	4288.4	2463.9	1731.0	1434.7	1325.5	1294.3	1325.5	1317.7
72.5°	12101.2	10019.3	6081.8	3345.0	1941.5	1458.1	1247.5	1146.2	1115.0	1083.8	1068.2
75°	9387.8	7610.0	4413.2	2456.1	1465.9	1169.6	1044.8	951.3	873.3	904.5	888.9
77.5°	6877.1	5341.0	3126.7	1699.8	1052.6	904.5	818.7	748.5	693.9	756.3	748.5
80°	4428.8	3454.1	2089.6	1138.4	725.1	631.6	600.4	561.4	616.0	803.1	818.7
82.5°	2705.6	2191.0	1247.5	740.7	475.6	421.0	389.9	389.9	631.6	693.9	701.7
85°	1208.6	1161.8	678.4	382.1	265.1	241.7	218.3	280.7	257.3	187.1	194.9
87.5°	194.9	202.7	148.1	132.6	101.4	101.4	78.0	54.6	39.0	23.4	23.4
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)