

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: P841744

Luminaire Tested: **ARCH4-220-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841744
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: ARCH4-220-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33614 lumens
Efficiency: N/A
Efficacy: 151.6 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): 221.8
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

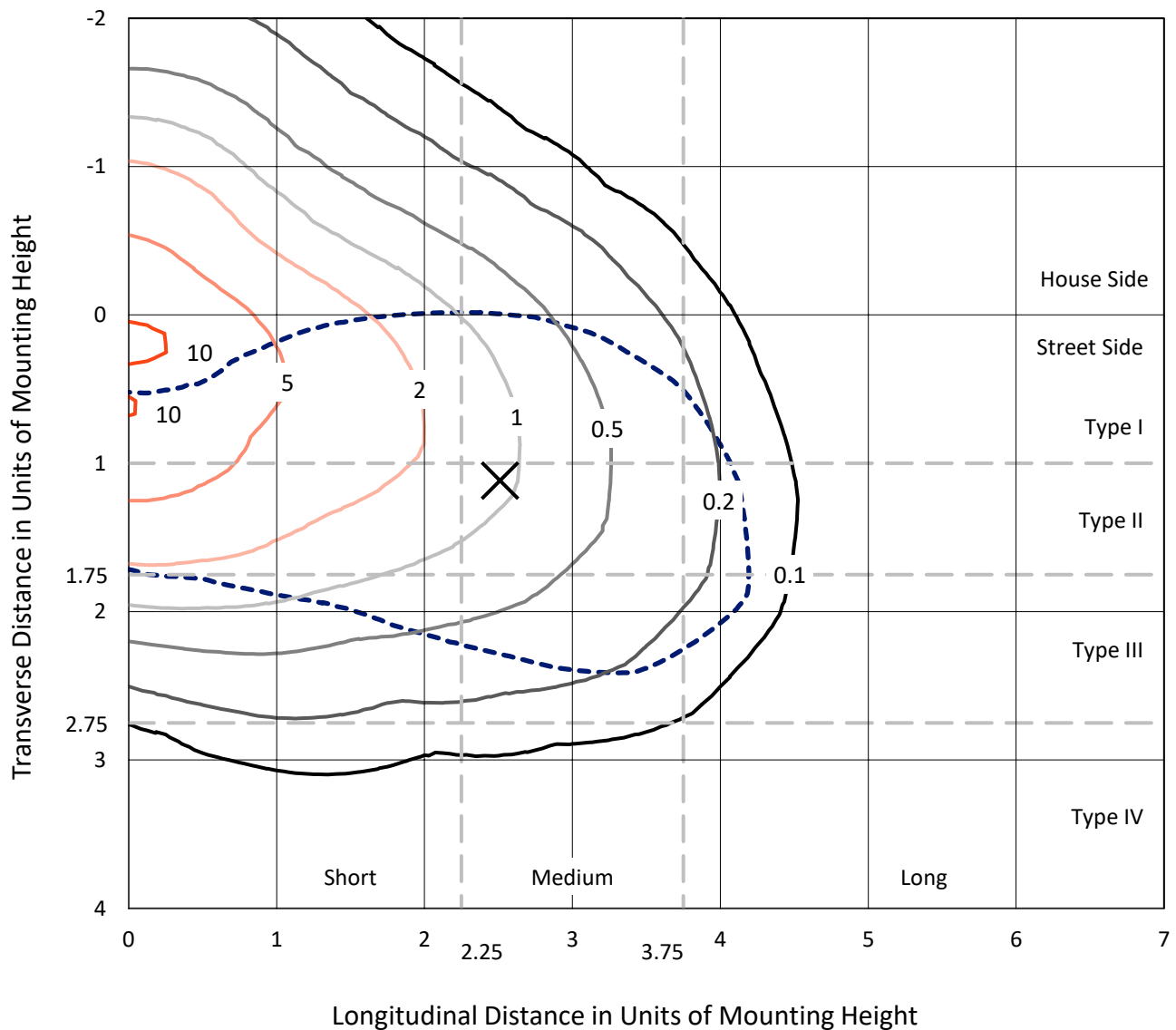


REPORT NUMBER: P841744

CATALOG NUMBER: ARCH4-220-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

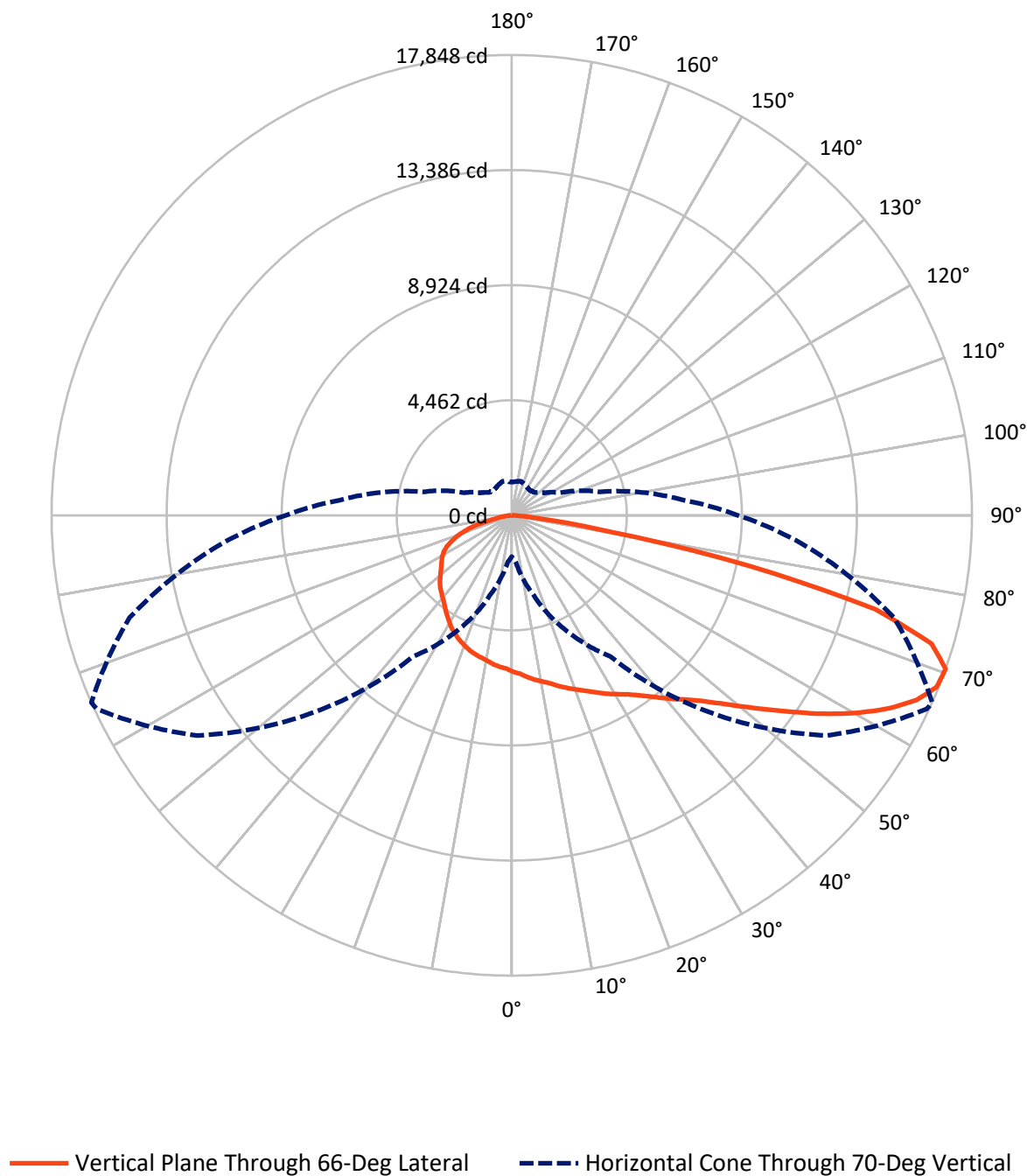
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Medium - N/A

REPORT NUMBER: P841744
CATALOG NUMBER: ARCH4-220-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841744

CATALOG NUMBER: ARCH4-220-730-U-T3

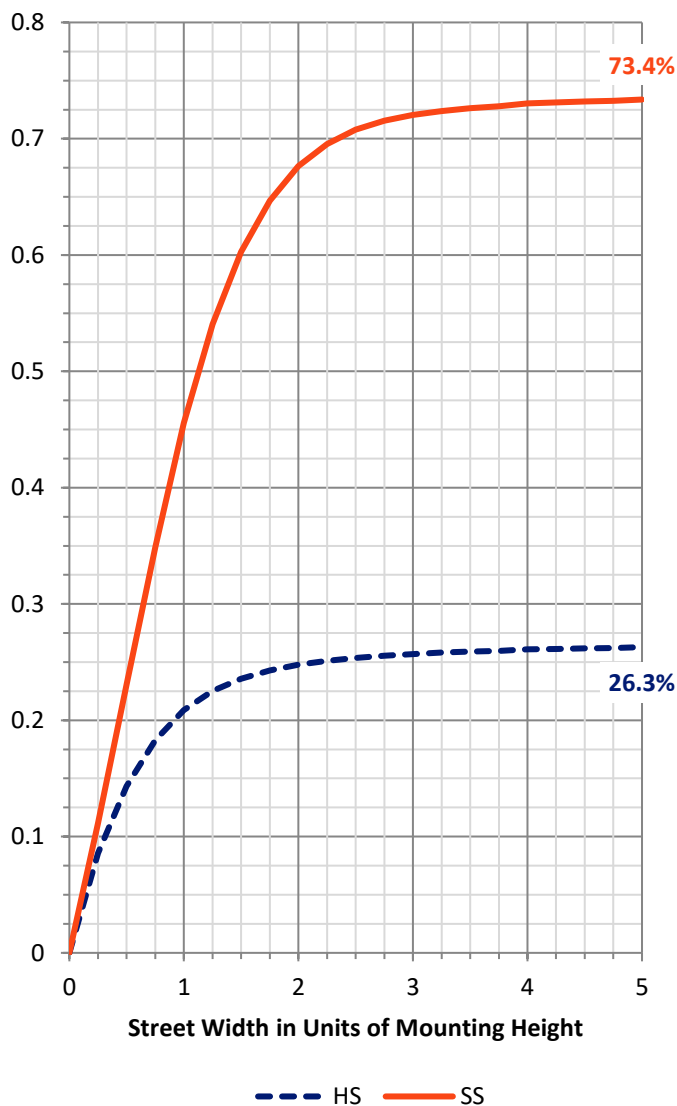
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8906.9	0.0	8906.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	24707.1	0.0	24707.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	33614.0	0.0	33614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.9	1.7
10°-20°	1748.6	5.2
20°-30°	2931.2	8.7
30°-40°	4389.0	13.1
40°-50°	5868.1	17.5
50°-60°	6851.2	20.4
60°-70°	6812.4	20.3
70°-80°	4033.1	12.0
80°-90°	397.5	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°	33614.0	100.0
0°-180°	33614.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841744

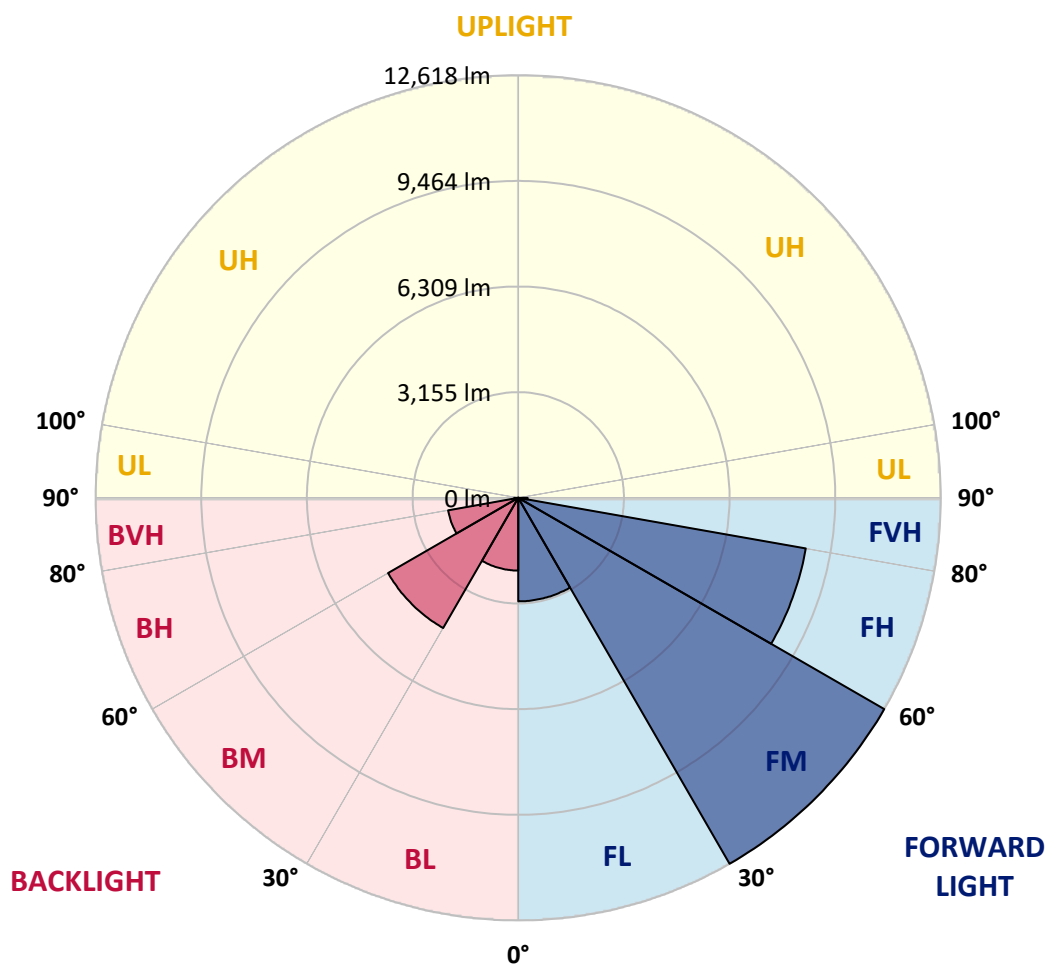
CATALOG NUMBER: ARCH4-220-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3091.6	9.2			
FM	(30°-60°)	12618.2	37.5			
FH	(60°-80°)	8717.8	25.9			G4/12000
FVH	(80°-90°)	279.4	0.8			G3/500
BL	(0°-30°)	2171.1	6.5	B3/2500		
BM	(30°-60°)	4490.0	13.4	B3/5000		
BH	(60°-80°)	2127.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	118.1	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: P841744

CATALOG NUMBER: ARCH4-220-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6
2.5°	6289.6	6279.7	6274.7	6254.9	6210.3	6230.1	6185.5	6155.8	6150.8	6081.4	6041.8
5°	6547.3	6542.4	6532.5	6502.7	6433.3	6443.2	6368.9	6314.4	6299.5	6190.5	6106.2
7.5°	6765.4	6755.5	6750.5	6710.9	6636.5	6631.6	6542.4	6463.1	6438.3	6289.6	6160.7
10°	6933.9	6919.1	6929.0	6889.3	6810.0	6795.1	6681.1	6577.1	6552.3	6363.9	6185.5
12.5°	7077.7	7067.7	7082.6	7047.9	6983.5	6968.6	6854.6	6720.8	6691.1	6473.0	6240.0
15°	7236.3	7201.6	7231.3	7216.4	7171.8	7166.9	7062.8	6914.1	6874.4	6611.8	6324.3
17.5°	7320.5	7300.7	7335.4	7340.3	7320.5	7355.2	7256.1	7077.7	7043.0	6740.6	6398.6
20°	7380.0	7350.3	7389.9	7419.6	7434.5	7503.9	7424.6	7251.1	7211.5	6864.5	6468.0
22.5°	7583.2	7518.8	7523.7	7543.6	7553.5	7652.6	7603.0	7434.5	7394.9	7018.2	6552.3
25°	8093.7	7964.8	7880.6	7821.1	7751.7	7836.0	7806.2	7642.7	7608.0	7201.6	6656.4
27.5°	8886.7	8723.2	8554.6	8381.2	8108.6	8073.9	8024.3	7875.6	7836.0	7384.9	6760.4
30°	9788.8	9625.2	9427.0	9149.4	8638.9	8371.3	8257.3	8093.7	8049.1	7548.5	6859.6
32.5°	10685.9	10542.1	10343.9	10006.9	9278.3	8733.1	8490.2	8321.7	8277.1	7726.9	6978.5
35°	11384.7	11295.5	11166.6	10745.3	9912.7	9159.3	8827.2	8624.0	8574.5	8009.4	7196.6
37.5°	11949.7	11885.3	11776.3	11335.2	10373.6	9585.6	9213.8	8980.9	8926.4	8316.7	7429.6
40°	12782.4	12613.9	12524.7	11885.3	10775.1	9972.2	9650.0	9407.1	9347.7	8643.9	7617.9
42.5°	13491.2	13367.3	13258.2	12376.0	11156.7	10304.2	10061.4	9838.3	9759.0	8966.0	7821.1
45°	13610.1	13659.7	13605.2	12618.8	11761.4	10631.4	10477.7	10334.0	10259.6	9402.2	8128.4
47.5°	13615.1	13615.1	13292.9	12757.6	12509.8	10998.1	10923.8	10973.3	10894.0	9957.3	8495.2
50°	13258.2	13322.6	13154.1	12792.3	12708.1	11364.9	11469.0	11736.6	11657.3	10547.1	8891.7
52.5°	12519.7	12732.8	12727.9	12737.8	12420.6	11677.1	12043.9	12653.5	12519.7	11211.2	9313.0
55°	11216.2	11642.4	12024.1	12351.2	12172.8	11865.5	12747.7	13629.9	13491.2	11954.7	9739.2
57.5°	10101.0	10373.6	10849.4	11776.3	11880.3	12029.0	13406.9	14650.9	14527.0	12777.4	10185.3
60°	8827.2	9203.9	9679.7	10998.1	11523.5	12242.2	14130.5	15647.2	15528.2	13610.1	10616.5
62.5°	6869.5	7355.2	8306.8	9803.6	11003.1	12376.0	14700.5	16524.4	16469.9	14398.2	11003.1
65°	4787.8	5219.0	6552.3	8336.6	10175.4	12316.5	15156.5	17307.5	17258.0	15042.5	11275.7
67.5°	2795.4	3296.0	4802.7	6710.9	8713.2	11905.1	15305.2	17768.5	17768.5	15434.0	11350.0
70°	1595.9	1828.9	3167.1	4891.9	6681.1	10770.1	14888.8	17763.5	17847.8	15344.8	11042.7
72.5°	1115.2	1219.3	2131.2	3291.0	4530.1	8713.2	13798.5	16906.1	17020.1	14502.3	9992.0
75°	867.4	941.7	1501.8	2245.2	2854.9	5917.9	11414.5	14254.4	14556.8	12361.1	8078.8
77.5°	659.2	713.7	877.3	1402.6	1828.9	3400.0	7533.6	9347.7	9367.5	7568.3	4331.8
80°	480.8	535.3	584.8	857.4	971.4	1591.0	2844.9	3905.6	3796.6	3662.7	2344.3
82.5°	287.5	342.0	356.9	465.9	475.8	679.0	996.2	1258.9	1209.3	1610.8	1100.3
85°	123.9	173.5	183.4	213.1	203.2	277.6	396.5	332.1	297.4	342.0	237.9
87.5°	29.7	49.6	49.6	54.5	44.6	69.4	74.3	54.5	49.6	59.5	59.5
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: P841744

CATALOG NUMBER: ARCH4-220-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6	6066.6
2.5°	6031.9	6017.0	6022.0	5937.7	5912.9	5888.1	5873.3	5863.4	5853.4	5868.3	5883.2
5°	6076.5	6041.8	6002.1	5878.2	5828.7	5774.1	5734.5	5699.8	5684.9	5684.9	5699.8
7.5°	6111.2	6051.7	5967.4	5803.9	5714.7	5640.3	5575.9	5531.3	5506.5	5506.5	5521.4
10°	6116.1	6031.9	5898.0	5699.8	5580.8	5471.8	5397.5	5347.9	5313.2	5313.2	5323.1
12.5°	6145.9	6031.9	5858.4	5620.5	5471.8	5338.0	5248.8	5174.4	5159.6	5159.6	5169.5
15°	6195.4	6056.6	5833.6	5551.1	5372.7	5219.0	5119.9	5040.6	5010.9	5030.7	5035.6
17.5°	6240.0	6071.5	5789.0	5461.9	5248.8	5080.2	4971.2	4901.8	4862.2	4906.8	4906.8
20°	6269.8	6071.5	5724.6	5347.9	5114.9	4926.6	4822.5	4738.3	4708.5	4763.0	4768.0
22.5°	6314.4	6066.6	5655.2	5233.9	4971.2	4773.0	4668.9	4604.4	4589.6	4649.0	4668.9
25°	6363.9	6076.5	5580.8	5105.0	4812.6	4619.3	4540.0	4510.3	4520.2	4594.5	4619.3
27.5°	6418.5	6096.3	5506.5	4961.3	4639.1	4465.7	4421.1	4435.9	4475.6	4569.7	4599.5
30°	6468.0	6101.3	5402.4	4792.8	4440.9	4277.3	4297.1	4361.6	4421.1	4515.2	4549.9
32.5°	6532.5	6106.2	5293.4	4609.4	4227.8	4108.8	4198.0	4302.1	4361.6	4450.8	4490.4
35°	6691.1	6190.5	5209.1	4431.0	4029.5	3965.1	4113.8	4247.6	4282.3	4361.6	4396.3
37.5°	6874.4	6329.2	5164.5	4247.6	3836.2	3821.3	4009.7	4143.5	4153.4	4203.0	4237.7
40°	6988.4	6388.7	5114.9	4093.9	3662.7	3672.6	3865.9	3970.0	3950.2	3984.9	4009.7
42.5°	7102.4	6408.5	5010.9	3965.1	3499.2	3509.1	3657.8	3732.1	3742.0	3816.4	3851.1
45°	7295.7	6463.1	4896.9	3846.1	3350.5	3315.8	3405.0	3504.1	3633.0	3776.7	3816.4
47.5°	7553.5	6577.1	4777.9	3702.4	3206.8	3092.8	3127.5	3300.9	3434.7	3568.6	3593.3
50°	7816.1	6691.1	4668.9	3528.9	3063.0	2854.9	2869.7	3028.3	3137.4	3241.4	3256.3
52.5°	8073.9	6790.2	4574.7	3365.4	2899.5	2572.3	2631.8	2795.4	2869.7	2919.3	2934.2
55°	8331.6	6874.4	4490.4	3226.6	2711.1	2349.3	2403.8	2557.5	2631.8	2656.6	2666.5
57.5°	8599.3	6973.6	4426.0	3107.6	2498.0	2151.1	2185.7	2294.8	2364.2	2393.9	2384.0
60°	8822.3	7057.8	4391.3	2983.7	2284.9	1967.7	1957.8	2056.9	2156.0	2185.7	2175.8
62.5°	8995.8	7112.3	4336.8	2825.1	2096.5	1784.3	1734.7	1863.6	1967.7	1987.5	2002.4
65°	9089.9	7117.3	4203.0	2621.9	1903.2	1586.0	1551.3	1680.2	1744.6	1764.5	1764.5
67.5°	9075.1	7038.0	3940.3	2349.3	1724.8	1407.6	1377.9	1457.2	1551.3	1566.2	1551.3
70°	8767.8	6710.9	3519.0	2061.8	1511.7	1249.0	1194.5	1273.8	1363.0	1308.5	1283.7
72.5°	7895.5	5863.4	2899.5	1744.6	1273.8	1050.7	1026.0	1105.3	1110.2	1120.1	1095.4
75°	6230.1	4366.5	2170.9	1358.0	1030.9	882.2	877.3	862.4	882.2	921.9	892.1
77.5°	3271.2	2180.8	1174.7	832.7	748.4	708.8	674.1	669.1	728.6	753.4	723.6
80°	1774.4	1224.2	674.1	500.6	456.0	460.9	505.5	495.6	560.1	574.9	550.2
82.5°	773.2	579.9	332.1	302.3	302.3	297.4	312.2	346.9	416.3	416.3	332.1
85°	168.5	143.7	128.9	148.7	168.5	168.5	168.5	168.5	119.0	64.4	44.6
87.5°	54.5	54.5	54.5	59.5	64.4	64.4	54.5	39.7	24.8	5.0	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)