

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: P841151

Luminaire Tested: **ARCH4-140-722-U-T4W-HSS**

Issue Date: 5/27/2024

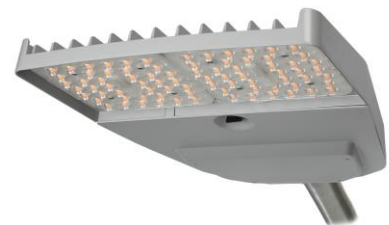
Test Information

Test Method: LM-79-08
Report Number: P841151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14124 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

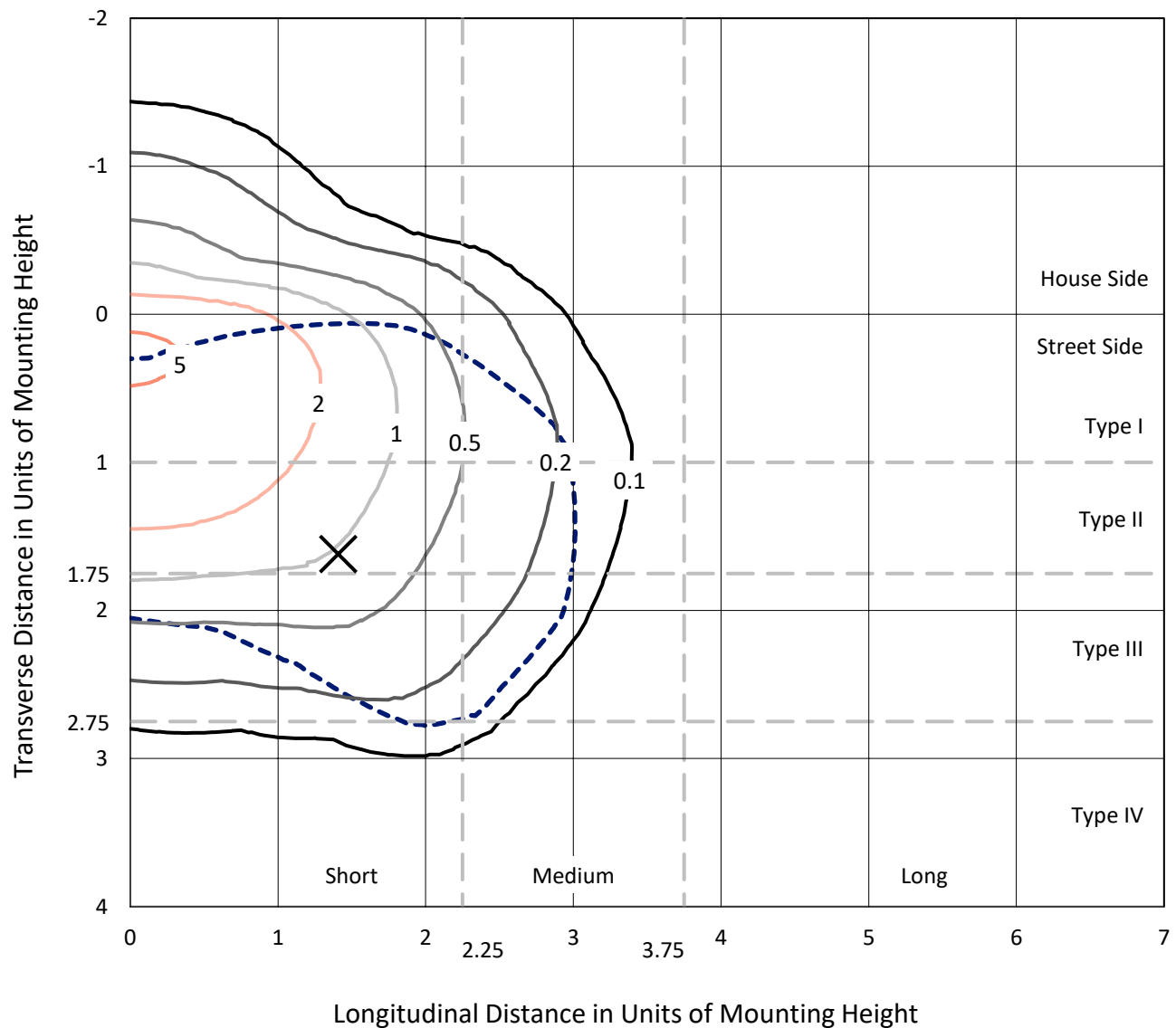
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841151
CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

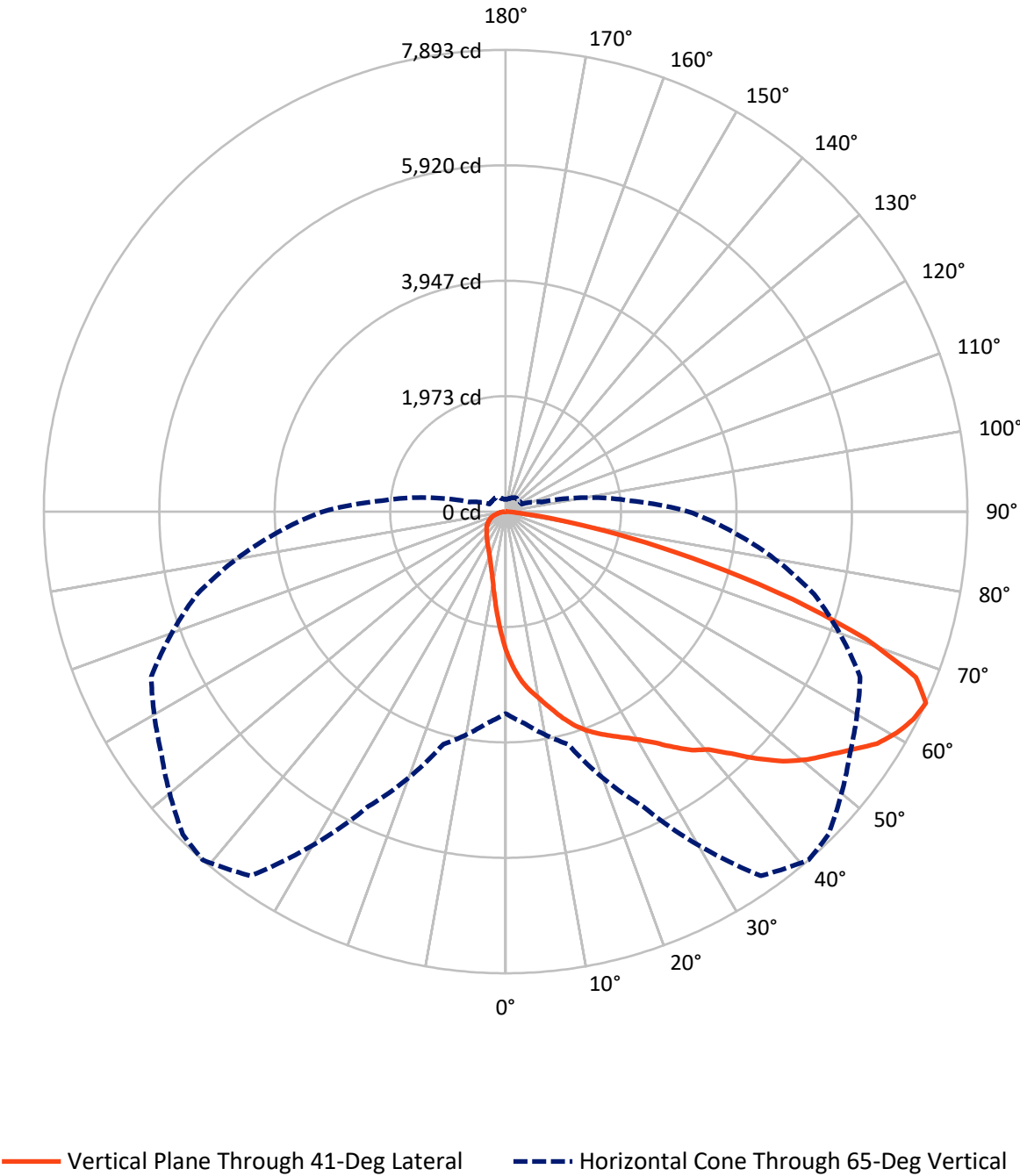
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

REPORT NUMBER: P841151
CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841151

CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

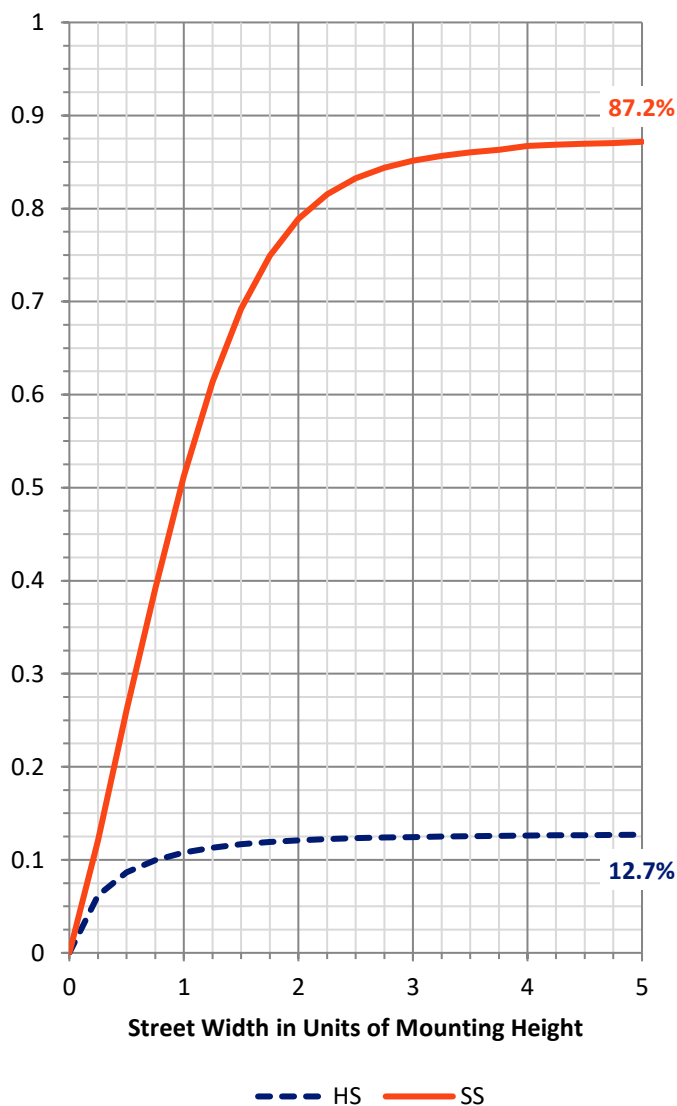
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.3	0.0	1813.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12310.7	0.0	12310.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	14124.0	0.0	14124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.6
10°-20°	672.4	4.8
20°-30°	1156.8	8.2
30°-40°	1754.4	12.4
40°-50°	2570.2	18.2
50°-60°	3245.7	23.0
60°-70°	3043.4	21.5
70°-80°	1356.4	9.6
80°-90°	100.5	0.7
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°	14124.0	100.0
0°-180°	14124.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841151

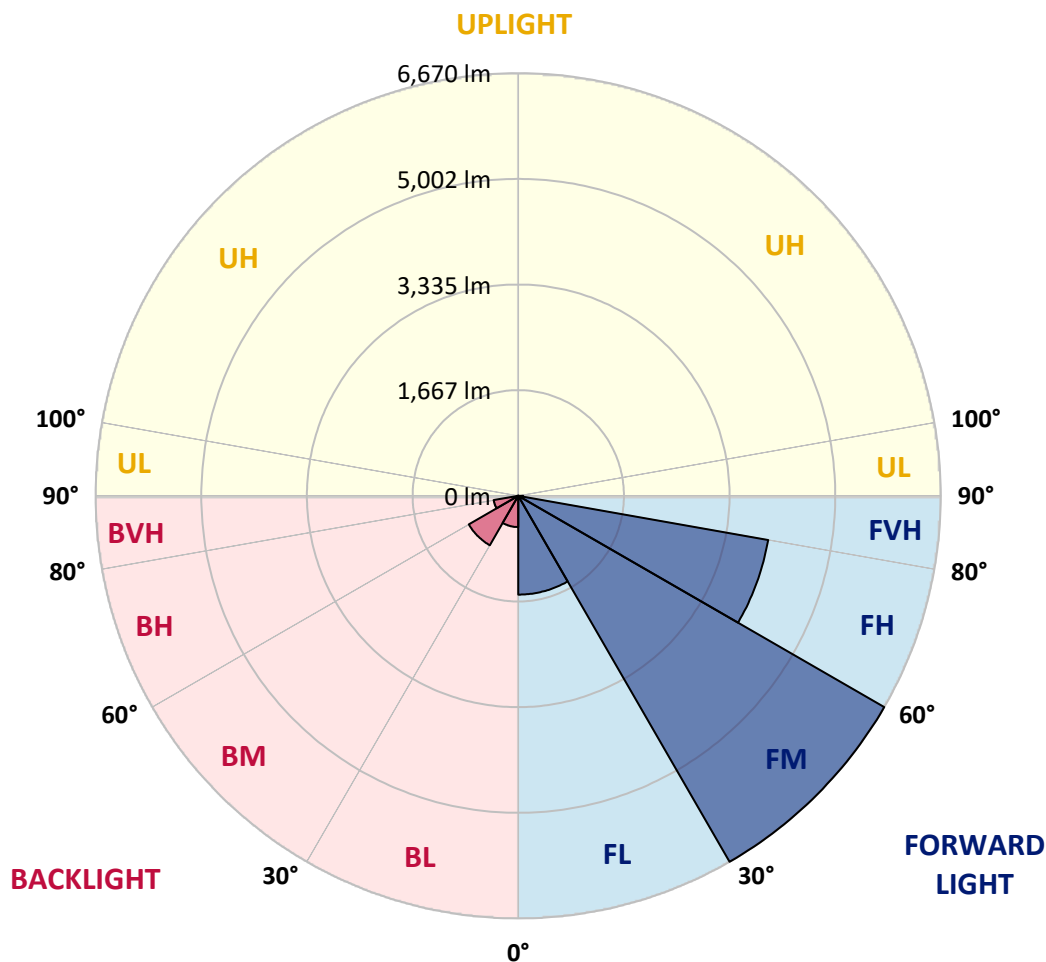
CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.8	11.0			
FM	(30°-60°)	6669.9	47.2			
FH	(60°-80°)	4005.9	28.4			G2/5000
FVH	(80°-90°)	75.0	0.5			G1/100
BL	(0°-30°)	493.6	3.5	B1/500		
BM	(30°-60°)	900.4	6.4	B1/1000		
BH	(60°-80°)	393.9	2.8	B1/500		G1/500
BVH	(80°-90°)	25.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P841151

CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2776.0	2767.1	2761.1	2728.3	2728.3	2683.7	2686.6	2644.9	2594.3	2513.9	2427.5
5°	3038.1	3026.2	3011.3	2978.5	2966.6	2921.9	2916.0	2856.4	2770.0	2630.0	2475.2
7.5°	3267.5	3255.5	3234.7	3187.0	3154.3	3100.7	3085.8	3008.3	2913.0	2740.3	2522.8
10°	3475.9	3467.0	3440.2	3380.6	3336.0	3270.4	3243.6	3139.4	3020.2	2829.6	2561.5
12.5°	3687.4	3675.5	3639.8	3589.1	3535.5	3458.1	3425.3	3291.3	3139.4	2927.9	2618.1
15°	3884.0	3866.1	3839.3	3785.7	3738.1	3663.6	3627.9	3470.0	3285.3	3038.1	2692.6
17.5°	4012.1	3997.2	3973.4	3943.6	3904.9	3848.3	3812.5	3657.6	3431.3	3145.3	2770.0
20°	4089.5	4083.6	4074.6	4056.8	4038.9	4000.2	3973.4	3827.4	3589.1	3249.6	2844.5
22.5°	4149.1	4143.1	4140.2	4140.2	4143.1	4128.2	4110.4	3985.3	3741.0	3359.8	2913.0
25°	4241.4	4238.5	4232.5	4226.5	4247.4	4250.4	4244.4	4158.0	3931.7	3505.7	2999.4
27.5°	4369.5	4360.6	4348.7	4342.7	4363.6	4378.4	4390.4	4330.8	4134.2	3654.7	3097.7
30°	4566.1	4539.3	4509.5	4488.7	4503.5	4527.4	4554.2	4518.4	4342.7	3839.3	3198.9
32.5°	4798.4	4765.7	4697.1	4658.4	4697.1	4715.0	4735.9	4718.0	4560.1	4038.9	3300.2
35°	5081.4	5042.7	4971.2	4914.6	4983.1	4944.4	4935.4	4917.6	4765.7	4235.5	3413.4
37.5°	5552.0	5495.4	5382.2	5257.1	5257.1	5173.7	5141.0	5087.3	4950.3	4411.2	3523.6
40°	6097.1	6022.6	5876.6	5692.0	5522.2	5349.4	5328.6	5289.9	5167.8	4613.7	3648.7
42.5°	6695.7	6552.8	6350.2	6126.8	5852.8	5656.2	5608.6	5498.4	5379.2	4819.3	3773.8
45°	7360.0	7062.1	6767.2	6654.0	6201.3	6022.6	5933.2	5733.7	5599.6	5033.7	3904.9
47.5°	7467.2	7234.9	7038.3	7020.4	6526.0	6377.0	6275.8	5989.8	5837.9	5263.1	4041.9
50°	7407.6	7267.6	7288.5	7217.0	6764.3	6666.0	6588.5	6263.9	6073.2	5483.5	4167.0
52.5°	7157.4	7234.9	7354.0	7222.9	6990.6	6910.2	6871.5	6558.7	6293.6	5686.0	4280.2
55°	6859.6	6913.2	7169.3	7330.2	7252.7	7181.2	7145.5	6901.3	6511.1	5855.8	4384.4
57.5°	6424.7	6400.9	6683.8	7312.3	7526.8	7485.1	7446.3	7237.8	6713.6	5977.9	4449.9
60°	5772.4	5721.8	6079.2	6954.9	7616.1	7681.6	7663.8	7461.2	6868.5	5974.9	4423.1
62.5°	4643.5	4768.6	5263.1	6371.1	7654.8	7821.6	7788.9	7479.1	6919.1	5802.2	4253.3
65°	3452.1	3630.8	4116.3	5566.9	7601.2	7893.1	7803.8	7187.2	6683.8	5459.7	3881.0
67.5°	2487.1	2644.9	2999.4	4581.0	7085.9	7565.5	7461.2	6710.6	6141.7	4974.2	3365.7
70°	1700.7	1813.9	2055.2	3336.0	6049.4	6540.9	6475.3	5998.8	5286.9	4396.3	2734.3
72.5°	1200.3	1248.0	1402.9	2201.1	4595.9	5132.0	5054.6	4935.4	4247.4	3654.7	2126.7
75°	899.5	929.3	1012.7	1423.7	3100.7	3556.4	3484.9	3553.4	3172.1	2767.1	1548.8
77.5°	339.6	369.3	574.9	908.5	1834.8	2183.3	2111.8	2153.5	1763.3	1396.9	771.4
80°	92.3	98.3	190.6	431.9	834.0	1087.2	988.9	848.9	655.3	643.4	408.1
82.5°	38.7	44.7	86.4	232.3	297.9	297.9	250.2	309.8	250.2	300.8	196.6
85°	14.9	17.9	20.8	59.6	38.7	41.7	44.7	59.6	50.6	62.5	44.7
87.5°	0.0	0.0	0.0	3.0	3.0	6.0	3.0	6.0	8.9	8.9	8.9
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: P841151

CATALOG NUMBER: ARCH4-140-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2391.8	2359.0	2311.3	2233.9	2153.5	2108.8	2052.2	2043.3	1983.7	1977.7	1953.9
5°	2406.7	2338.1	2216.0	2067.1	1921.2	1808.0	1724.6	1679.9	1593.5	1593.5	1569.7
7.5°	2418.6	2311.3	2114.8	1894.3	1694.8	1542.9	1429.7	1382.0	1304.6	1298.6	1280.8
10°	2421.5	2278.6	2004.6	1718.6	1474.4	1319.5	1209.3	1155.7	1087.2	1081.2	1069.3
12.5°	2445.4	2260.7	1906.3	1566.7	1316.5	1149.7	1042.5	997.8	944.2	938.2	926.3
15°	2484.1	2260.7	1822.9	1438.6	1176.5	1021.6	929.3	887.6	848.9	842.9	837.0
17.5°	2522.8	2254.8	1739.5	1319.5	1060.4	920.4	839.9	807.2	777.4	774.4	768.5
20°	2558.6	2251.8	1656.1	1218.2	971.0	837.0	774.4	744.6	720.8	720.8	717.8
22.5°	2594.3	2245.8	1575.6	1122.9	893.6	774.4	720.8	688.0	670.2	670.2	667.2
25°	2647.9	2245.8	1501.2	1042.5	831.0	726.8	673.1	649.3	634.4	631.4	631.4
27.5°	2710.5	2263.7	1435.7	971.0	777.4	679.1	637.4	613.6	595.7	589.7	592.7
30°	2779.0	2278.6	1376.1	908.5	726.8	643.4	598.7	574.9	557.0	551.0	554.0
32.5°	2847.5	2296.4	1322.5	851.9	676.1	610.6	565.9	539.1	521.2	518.3	518.3
35°	2921.9	2314.3	1268.9	804.2	634.4	577.8	536.1	506.4	494.4	488.5	491.5
37.5°	2996.4	2344.1	1218.2	759.5	604.6	548.1	509.3	479.5	470.6	467.6	467.6
40°	3085.8	2388.8	1197.4	729.7	577.8	521.2	488.5	458.7	449.8	449.8	449.8
42.5°	3160.2	2424.5	1179.5	697.0	557.0	497.4	467.6	443.8	437.8	434.9	437.8
45°	3234.7	2457.3	1155.7	667.2	530.2	473.6	449.8	425.9	420.0	420.0	420.0
47.5°	3309.2	2475.2	1122.9	637.4	506.4	452.7	431.9	411.0	405.1	405.1	405.1
50°	3368.7	2490.1	1075.3	604.6	479.5	434.9	414.0	393.2	387.2	387.2	387.2
52.5°	3428.3	2493.0	1024.6	565.9	452.7	414.0	396.1	375.3	369.3	366.4	366.4
55°	3481.9	2490.1	965.0	521.2	423.0	390.2	375.3	357.4	345.5	333.6	339.6
57.5°	3520.6	2487.1	896.5	476.6	393.2	366.4	360.4	336.6	312.7	283.0	288.9
60°	3505.7	2454.3	822.1	420.0	360.4	342.5	342.5	309.8	268.1	253.2	256.2
62.5°	3410.4	2362.0	744.6	360.4	327.6	318.7	315.7	280.0	247.2	232.3	235.3
65°	3124.5	2129.7	631.4	306.8	294.9	291.9	291.9	259.1	229.3	211.5	214.5
67.5°	2689.6	1787.1	515.3	259.1	262.1	268.1	268.1	238.3	208.5	190.6	193.6
70°	2156.5	1396.9	411.0	223.4	226.4	235.3	241.3	214.5	187.6	169.8	169.8
72.5°	1623.3	1060.4	330.6	187.6	202.5	202.5	211.5	190.6	163.8	145.9	148.9
75°	1176.5	759.5	262.1	157.9	175.7	172.8	172.8	160.8	140.0	128.1	128.1
77.5°	557.0	399.1	208.5	113.2	137.0	134.0	137.0	128.1	119.1	107.2	110.2
80°	274.0	196.6	134.0	80.4	95.3	98.3	107.2	101.3	98.3	89.4	89.4
82.5°	131.1	77.4	62.5	56.6	65.5	68.5	74.5	74.5	77.4	71.5	71.5
85°	35.7	20.8	26.8	35.7	41.7	44.7	50.6	53.6	53.6	50.6	53.6
87.5°	8.9	8.9	11.9	17.9	20.8	23.8	26.8	26.8	11.9	0.0	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)