

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: P836896

Luminaire Tested: **ARCH3-90-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

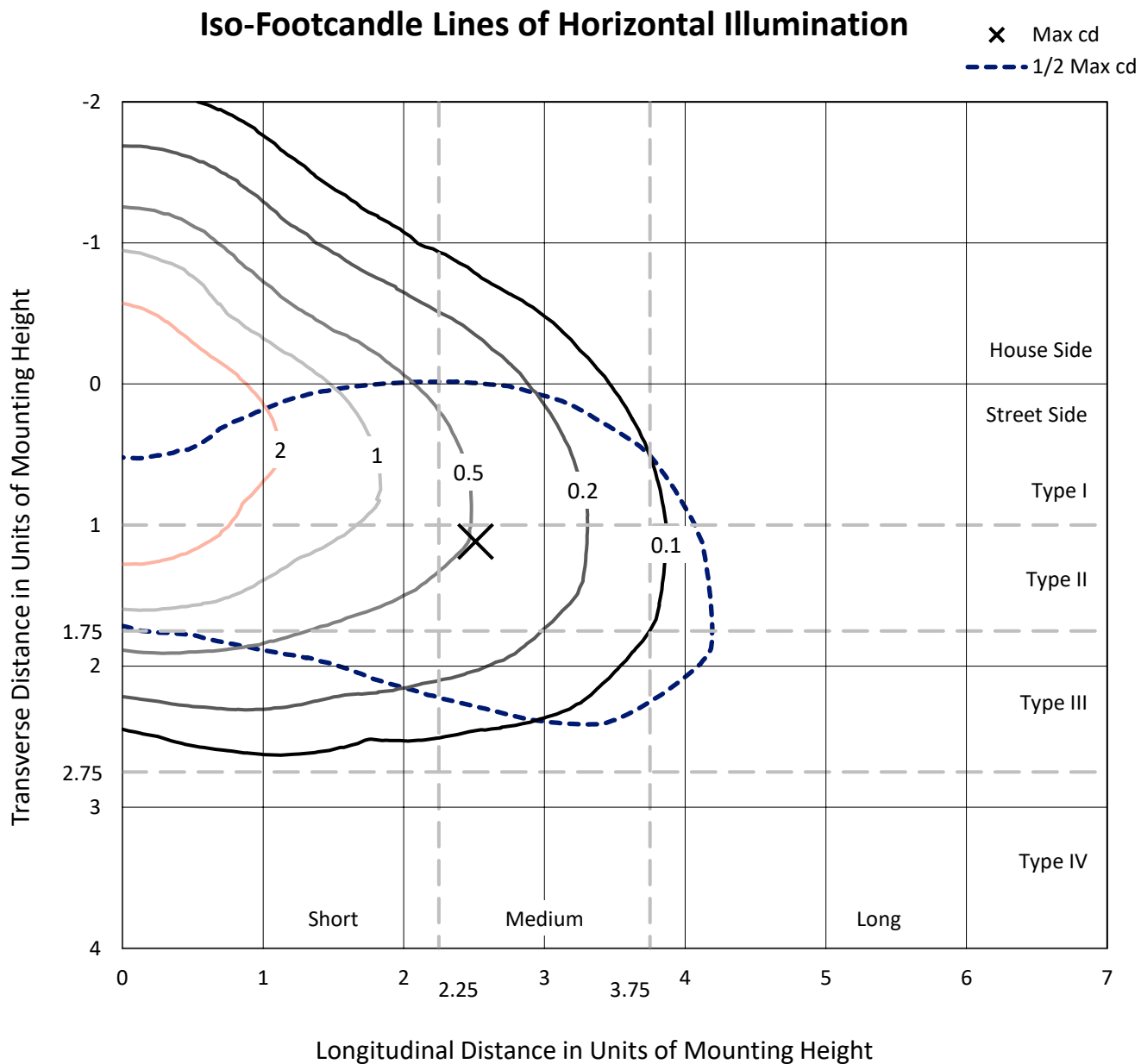
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14108 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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



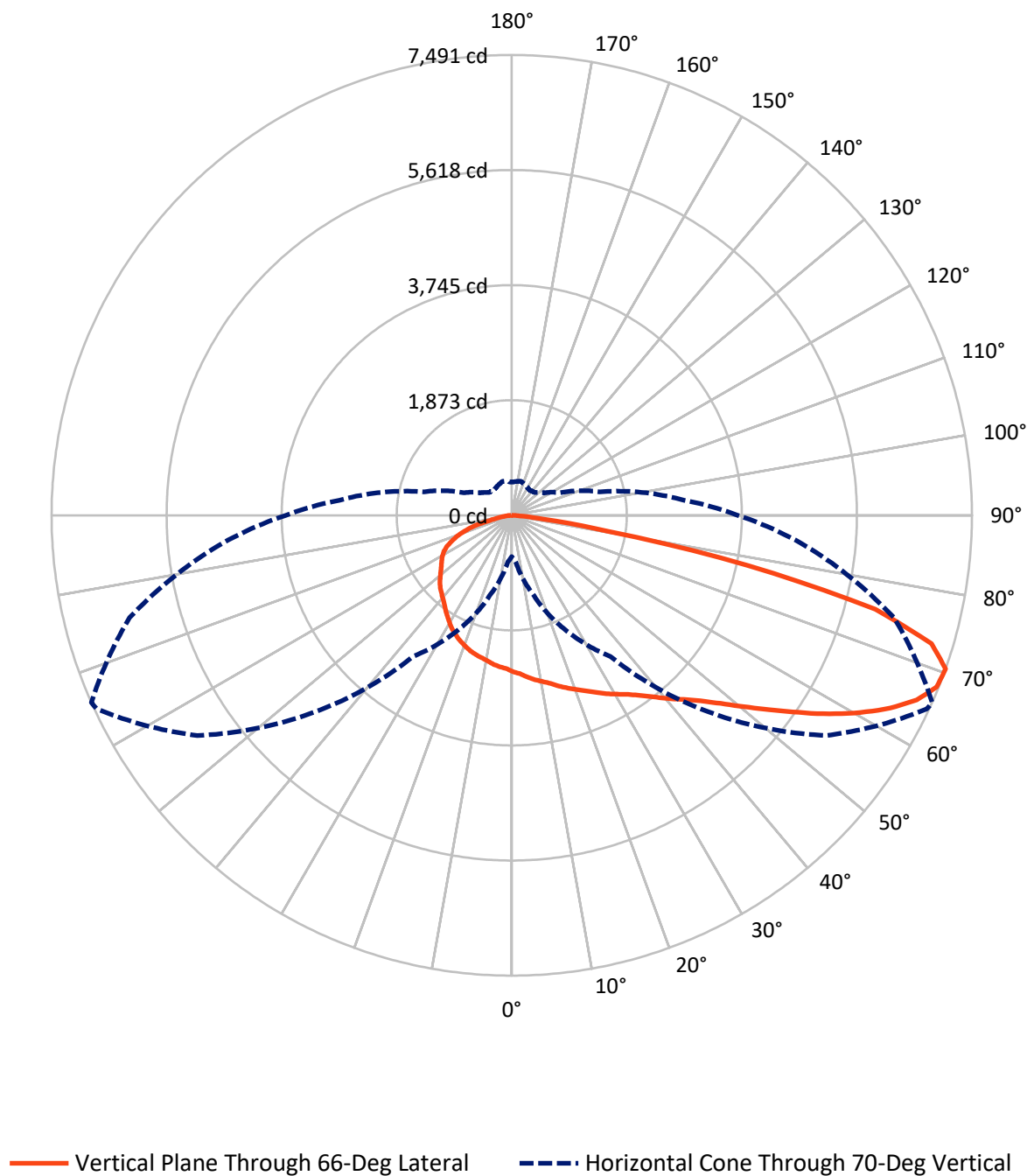
REPORT NUMBER: P836896
CATALOG NUMBER: ARCH3-90-727-U-T3



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - N/A

REPORT NUMBER: P836896
CATALOG NUMBER: ARCH3-90-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P836896

CATALOG NUMBER: ARCH3-90-727-U-T3

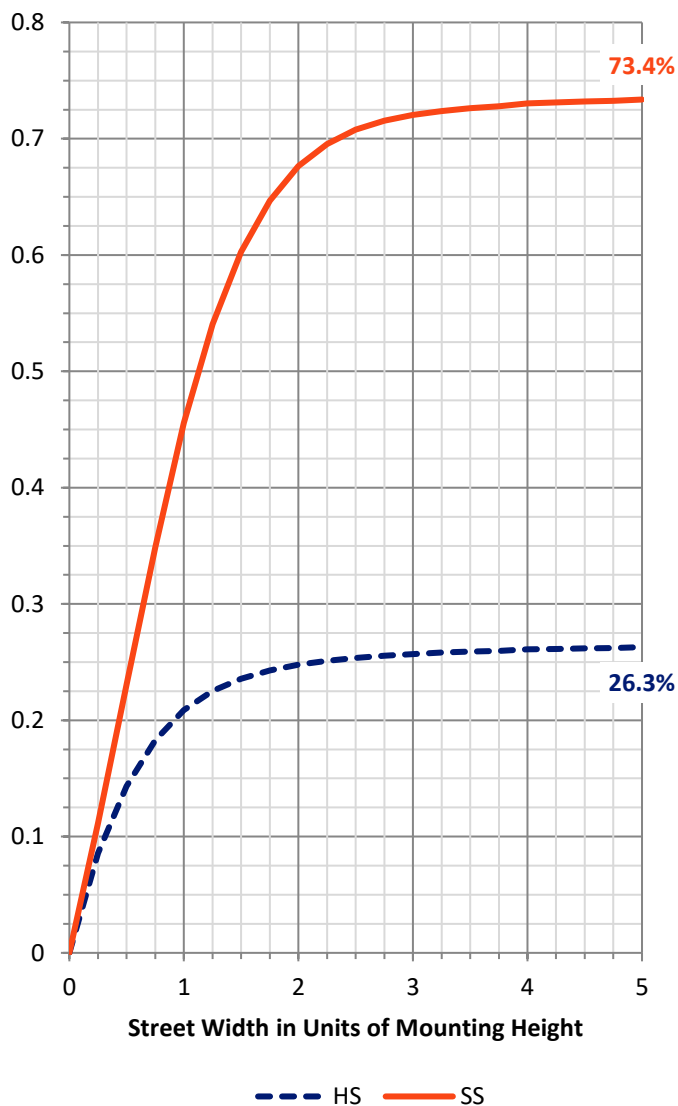
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3738.3	0.0	3738.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	10369.7	0.0	10369.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	14108.0	0.0	14108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.7
10°-20°	733.9	5.2
20°-30°	1230.2	8.7
30°-40°	1842.1	13.1
40°-50°	2462.9	17.5
50°-60°	2875.5	20.4
60°-70°	2859.2	20.3
70°-80°	1692.7	12.0
80°-90°	166.8	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°	14108.0	100.0
0°-180°	14108.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836896

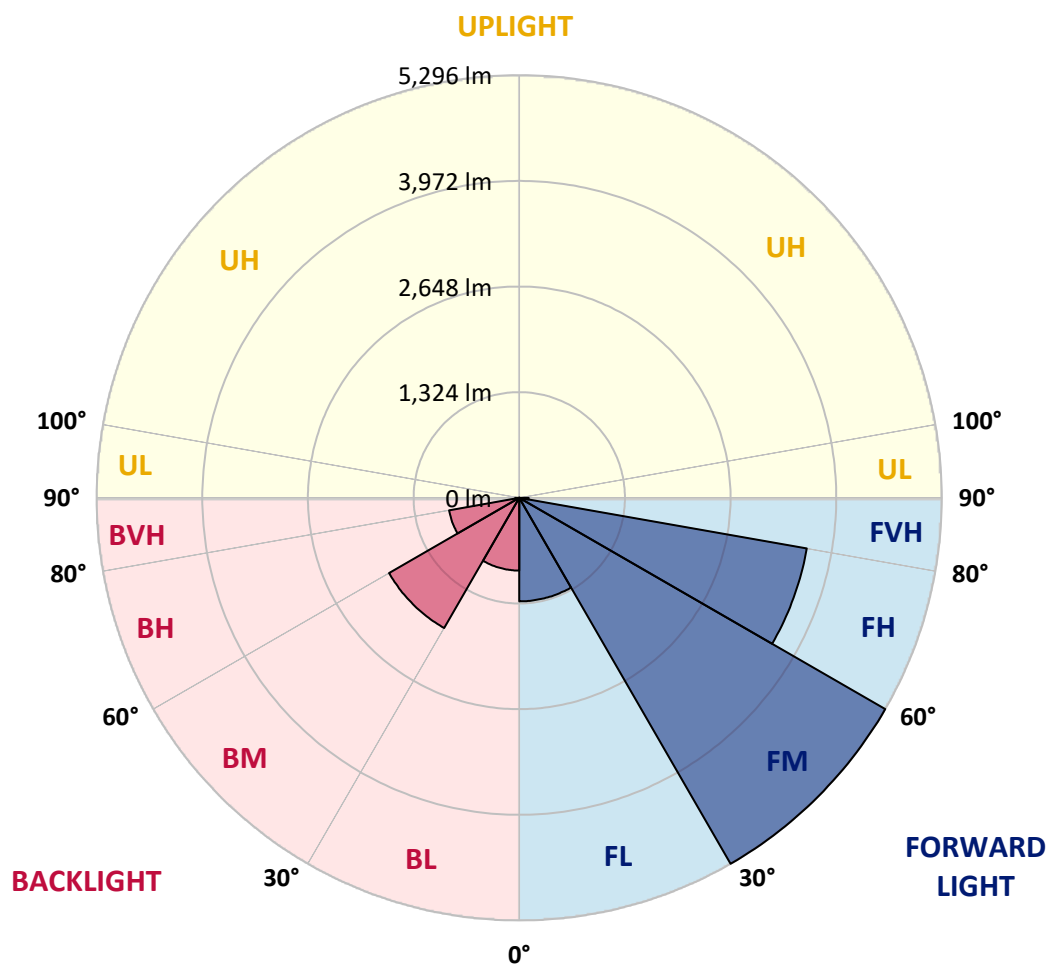
CATALOG NUMBER: ARCH3-90-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.6	9.2			
FM	(30°-60°)	5296.0	37.5			
FH	(60°-80°)	3658.9	25.9			G2/5000
FVH	(80°-90°)	117.3	0.8			G2/225
BL	(0°-30°)	911.2	6.5	B2/1000		
BM	(30°-60°)	1884.5	13.4	B2/2500		
BH	(60°-80°)	893.0	6.3	B2/1000		G2/1000
BVH	(80°-90°)	49.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P836896

CATALOG NUMBER: ARCH3-90-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2
2.5°	2639.8	2635.6	2633.5	2625.2	2606.5	2614.8	2596.1	2583.6	2581.5	2552.4	2535.8
5°	2748.0	2745.9	2741.7	2729.2	2700.1	2704.3	2673.1	2650.2	2643.9	2598.2	2562.8
7.5°	2839.5	2835.3	2833.2	2816.6	2785.4	2783.3	2745.9	2712.6	2702.2	2639.8	2585.7
10°	2910.2	2904.0	2908.1	2891.5	2858.2	2852.0	2804.1	2760.4	2750.0	2671.0	2596.1
12.5°	2970.5	2966.4	2972.6	2958.1	2931.0	2924.8	2876.9	2820.8	2808.3	2716.7	2619.0
15°	3037.1	3022.5	3035.0	3028.8	3010.1	3008.0	2964.3	2901.9	2885.2	2775.0	2654.3
17.5°	3072.5	3064.1	3078.7	3080.8	3072.5	3087.0	3045.4	2970.5	2956.0	2829.1	2685.5
20°	3097.4	3084.9	3101.6	3114.1	3120.3	3149.4	3116.1	3043.3	3026.7	2881.1	2714.7
22.5°	3182.7	3155.7	3157.8	3166.1	3170.2	3211.8	3191.0	3120.3	3103.7	2945.6	2750.0
25°	3397.0	3342.9	3307.5	3282.6	3253.4	3288.8	3276.3	3207.7	3193.1	3022.5	2793.7
27.5°	3729.8	3661.2	3590.4	3517.6	3403.2	3388.7	3367.9	3305.4	3288.8	3099.5	2837.4
30°	4108.4	4039.8	3956.6	3840.1	3625.8	3513.5	3465.6	3397.0	3378.3	3168.2	2879.0
32.5°	4484.9	4424.6	4341.4	4199.9	3894.1	3665.3	3563.4	3492.7	3473.9	3243.0	2928.9
35°	4778.2	4740.8	4686.7	4509.9	4160.4	3844.2	3704.8	3619.6	3598.8	3361.6	3020.5
37.5°	5015.4	4988.3	4942.6	4757.4	4353.9	4023.1	3867.1	3769.3	3746.5	3490.6	3118.2
40°	5364.9	5294.1	5256.7	4988.3	4522.4	4185.4	4050.2	3948.2	3923.3	3627.9	3197.3
42.5°	5662.3	5610.3	5564.6	5194.3	4682.5	4324.7	4222.8	4129.2	4095.9	3763.1	3282.6
45°	5712.2	5733.0	5710.2	5296.2	4936.3	4462.0	4397.6	4337.2	4306.0	3946.2	3411.5
47.5°	5714.3	5714.3	5579.1	5354.5	5250.4	4616.0	4584.8	4605.6	4572.3	4179.1	3565.5
50°	5564.6	5591.6	5520.9	5369.0	5333.6	4769.9	4813.6	4925.9	4892.6	4426.7	3731.9
52.5°	5254.6	5344.1	5342.0	5346.1	5213.0	4901.0	5054.9	5310.8	5254.6	4705.4	3908.7
55°	4707.5	4886.4	5046.6	5183.9	5109.0	4980.0	5350.3	5720.6	5662.3	5017.5	4087.6
57.5°	4239.5	4353.9	4553.6	4942.6	4986.3	5048.7	5627.0	6149.1	6097.1	5362.8	4274.8
60°	3704.8	3862.9	4062.6	4616.0	4836.5	5138.1	5930.7	6567.2	6517.3	5712.2	4455.8
62.5°	2883.2	3087.0	3486.4	4114.6	4618.1	5194.3	6169.9	6935.4	6912.5	6043.0	4618.1
65°	2009.5	2190.5	2750.0	3498.9	4270.7	5169.3	6361.3	7264.1	7243.3	6313.4	4732.5
67.5°	1173.2	1383.3	2015.7	2816.6	3657.0	4996.7	6423.7	7457.5	7457.5	6477.8	4763.7
70°	669.8	767.6	1329.3	2053.2	2804.1	4520.3	6248.9	7455.5	7490.8	6440.3	4634.7
72.5°	468.0	511.7	894.5	1381.3	1901.3	3657.0	5791.3	7095.6	7143.4	6086.7	4193.7
75°	364.0	395.2	630.3	942.3	1198.2	2483.8	4790.7	5982.7	6109.6	5188.0	3390.7
77.5°	276.7	299.5	368.2	588.7	767.6	1427.0	3161.9	3923.3	3931.6	3176.5	1818.1
80°	201.8	224.7	245.5	359.9	407.7	667.7	1194.0	1639.2	1593.4	1537.3	983.9
82.5°	120.7	143.5	149.8	195.5	199.7	285.0	418.1	528.4	507.6	676.1	461.8
85°	52.0	72.8	77.0	89.4	85.3	116.5	166.4	139.4	124.8	143.5	99.8
87.5°	12.5	20.8	20.8	22.9	18.7	29.1	31.2	22.9	20.8	25.0	25.0
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: P836896

CATALOG NUMBER: ARCH3-90-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2	2546.2
2.5°	2531.6	2525.4	2527.5	2492.1	2481.7	2471.3	2465.0	2460.9	2456.7	2463.0	2469.2
5°	2550.3	2535.8	2519.1	2467.1	2446.3	2423.4	2406.8	2392.2	2386.0	2386.0	2392.2
7.5°	2564.9	2539.9	2504.6	2435.9	2398.5	2367.3	2340.2	2321.5	2311.1	2311.1	2317.4
10°	2567.0	2531.6	2475.4	2392.2	2342.3	2296.5	2265.3	2244.5	2230.0	2230.0	2234.1
12.5°	2579.5	2531.6	2458.8	2359.0	2296.5	2240.4	2202.9	2171.7	2165.5	2165.5	2169.7
15°	2600.3	2542.0	2448.4	2329.8	2254.9	2190.5	2148.9	2115.6	2103.1	2111.4	2113.5
17.5°	2619.0	2548.3	2429.7	2292.4	2202.9	2132.2	2086.4	2057.3	2040.7	2059.4	2059.4
20°	2631.5	2548.3	2402.6	2244.5	2146.8	2067.7	2024.0	1988.7	1976.2	1999.1	2001.2
22.5°	2650.2	2546.2	2373.5	2196.7	2086.4	2003.2	1959.6	1932.5	1926.3	1951.2	1959.6
25°	2671.0	2550.3	2342.3	2142.6	2019.9	1938.8	1905.5	1893.0	1897.1	1928.4	1938.8
27.5°	2693.9	2558.7	2311.1	2082.3	1947.1	1874.3	1855.5	1861.8	1878.4	1918.0	1930.4
30°	2714.7	2560.7	2267.4	2011.6	1863.9	1795.2	1803.5	1830.6	1855.5	1895.1	1909.6
32.5°	2741.7	2562.8	2221.7	1934.6	1774.4	1724.5	1761.9	1805.6	1830.6	1868.0	1884.7
35°	2808.3	2598.2	2186.3	1859.7	1691.2	1664.2	1726.6	1782.7	1797.3	1830.6	1845.1
37.5°	2885.2	2656.4	2167.6	1782.7	1610.1	1603.8	1682.9	1739.1	1743.2	1764.0	1778.6
40°	2933.1	2681.4	2146.8	1718.3	1537.3	1541.4	1622.6	1666.2	1657.9	1672.5	1682.9
42.5°	2980.9	2689.7	2103.1	1664.2	1468.6	1472.8	1535.2	1566.4	1570.6	1601.8	1616.3
45°	3062.1	2712.6	2055.2	1614.2	1406.2	1391.7	1429.1	1470.7	1524.8	1585.1	1601.8
47.5°	3170.2	2760.4	2005.3	1553.9	1345.9	1298.0	1312.6	1385.4	1441.6	1497.7	1508.1
50°	3280.5	2808.3	1959.6	1481.1	1285.6	1198.2	1204.4	1271.0	1316.8	1360.5	1366.7
52.5°	3388.7	2849.9	1920.0	1412.5	1216.9	1079.6	1104.6	1173.2	1204.4	1225.2	1231.5
55°	3496.8	2885.2	1884.7	1354.2	1137.9	986.0	1008.9	1073.4	1104.6	1115.0	1119.2
57.5°	3609.2	2926.9	1857.6	1304.3	1048.4	902.8	917.4	963.1	992.3	1004.7	1000.6
60°	3702.8	2962.2	1843.1	1252.3	959.0	825.8	821.7	863.3	904.9	917.4	913.2
62.5°	3775.6	2985.1	1820.2	1185.7	879.9	748.9	728.1	782.2	825.8	834.2	840.4
65°	3815.1	2987.2	1764.0	1100.4	798.8	665.7	651.1	705.2	732.2	740.6	740.6
67.5°	3808.9	2953.9	1653.8	986.0	723.9	590.8	578.3	611.6	651.1	657.3	651.1
70°	3679.9	2816.6	1476.9	865.4	634.5	524.2	501.3	534.6	572.1	549.2	538.8
72.5°	3313.8	2460.9	1216.9	732.2	534.6	441.0	430.6	463.9	466.0	470.1	459.7
75°	2614.8	1832.7	911.1	570.0	432.7	370.3	368.2	362.0	370.3	386.9	374.4
77.5°	1372.9	915.3	493.0	349.5	314.1	297.5	282.9	280.8	305.8	316.2	303.7
80°	744.7	513.8	282.9	210.1	191.4	193.5	212.2	208.0	235.1	241.3	230.9
82.5°	324.5	243.4	139.4	126.9	126.9	124.8	131.1	145.6	174.7	174.7	139.4
85°	70.7	60.3	54.1	62.4	70.7	70.7	70.7	70.7	49.9	27.0	18.7
87.5°	22.9	22.9	22.9	25.0	27.0	27.0	22.9	16.6	10.4	2.1	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)