

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: P842596

Luminaire Tested: **ARCH4-70-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

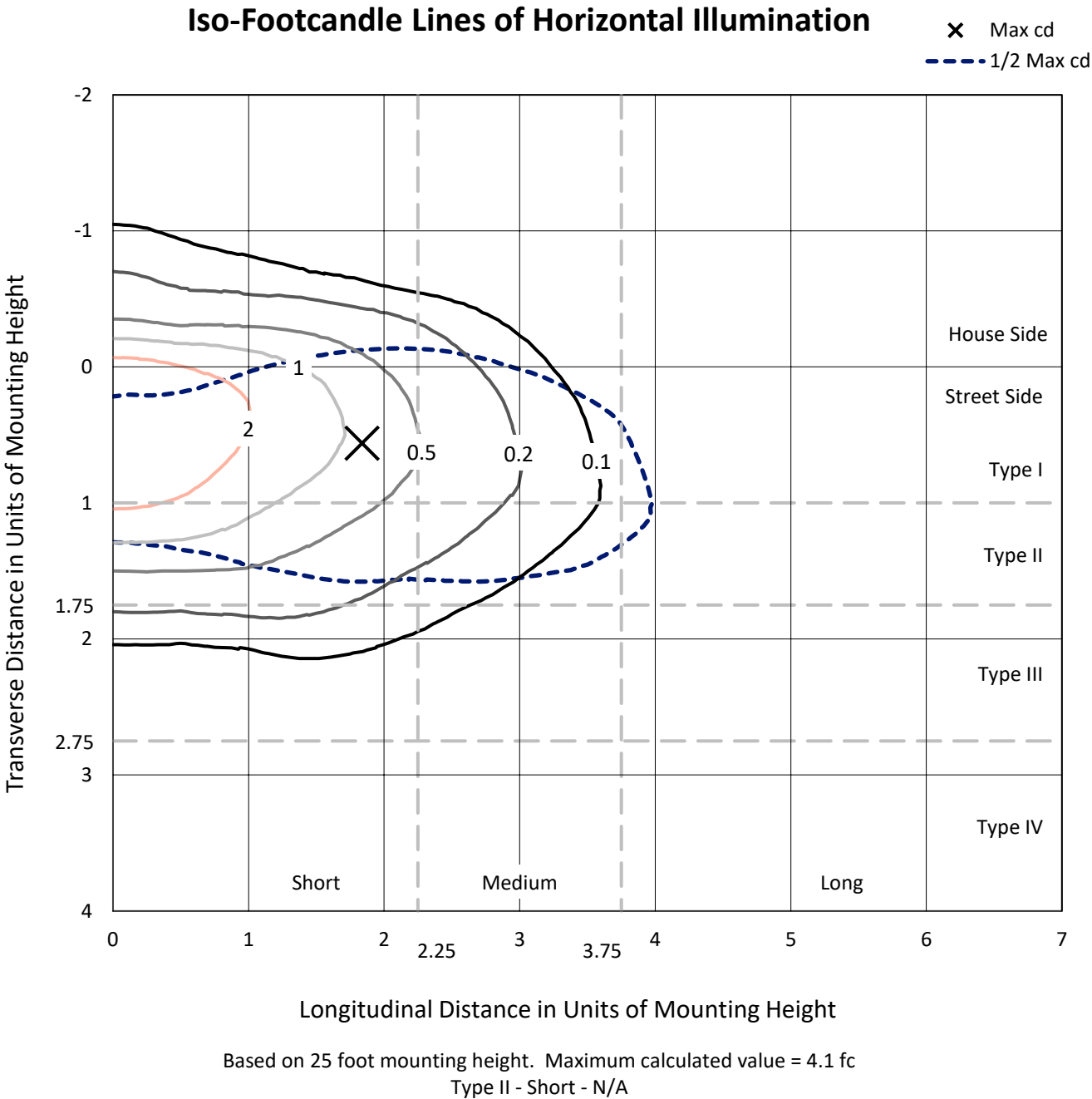
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8665 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

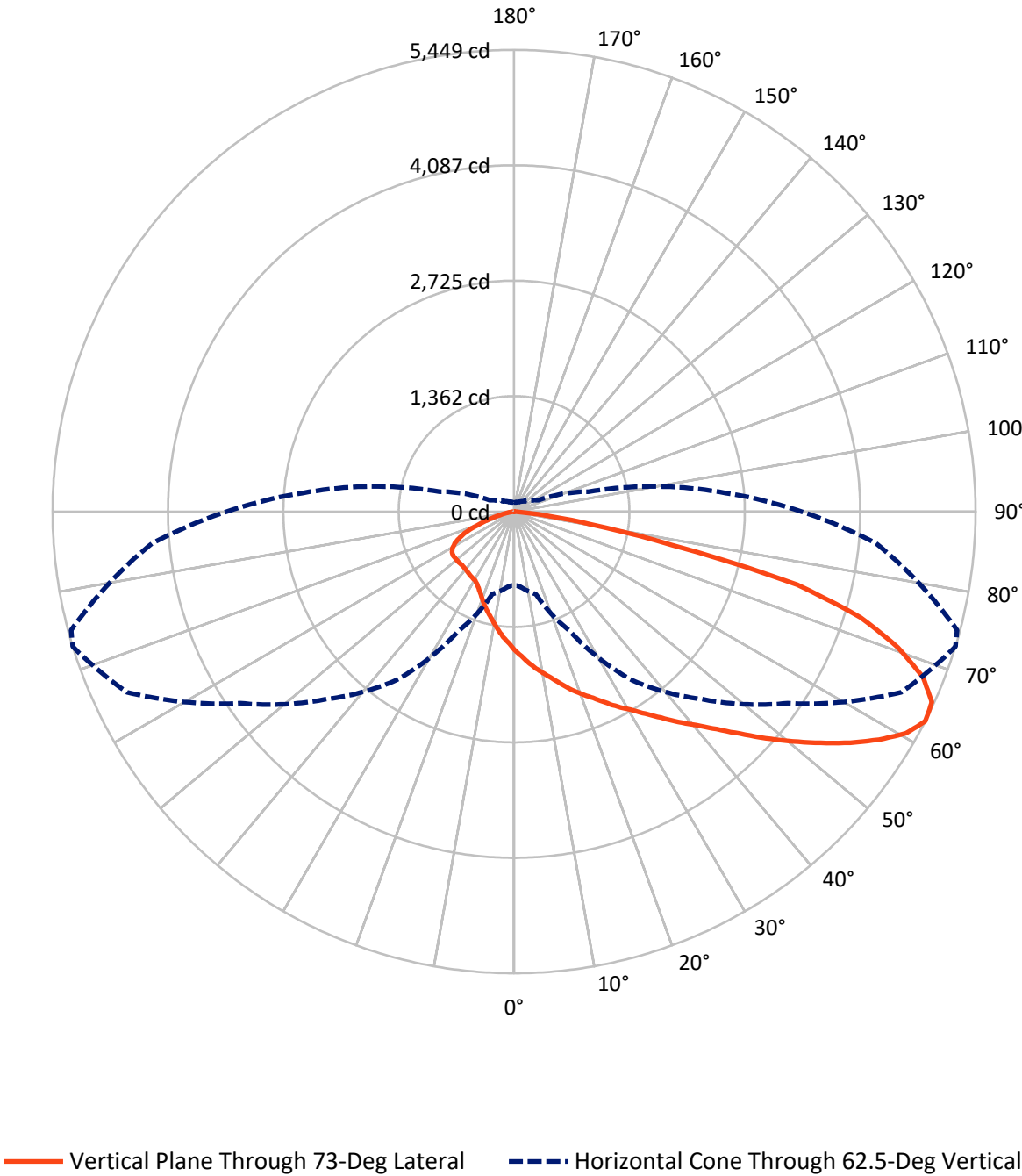


REPORT NUMBER: P842596
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Luminous Intensity Polar Plot



REPORT NUMBER: P842596

CATALOG NUMBER: ARCH4-70-727-U-T2U-HSS

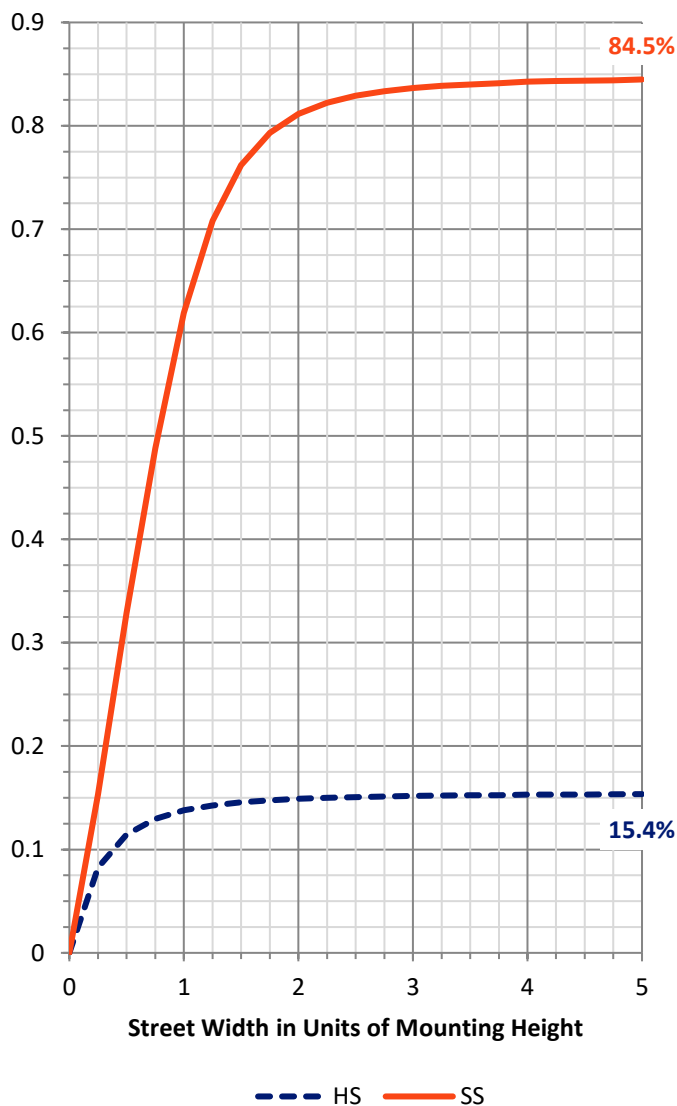
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.2	0.0	1343.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7321.8	0.0	7321.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	8665.0	0.0	8665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.8
10°-20°	478.3	5.5
20°-30°	796.1	9.2
30°-40°	1201.2	13.9
40°-50°	1679.0	19.4
50°-60°	1854.6	21.4
60°-70°	1615.6	18.6
70°-80°	816.1	9.4
80°-90°	65.5	0.8
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°	8665.0	100.0
0°-180°	8665.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842596

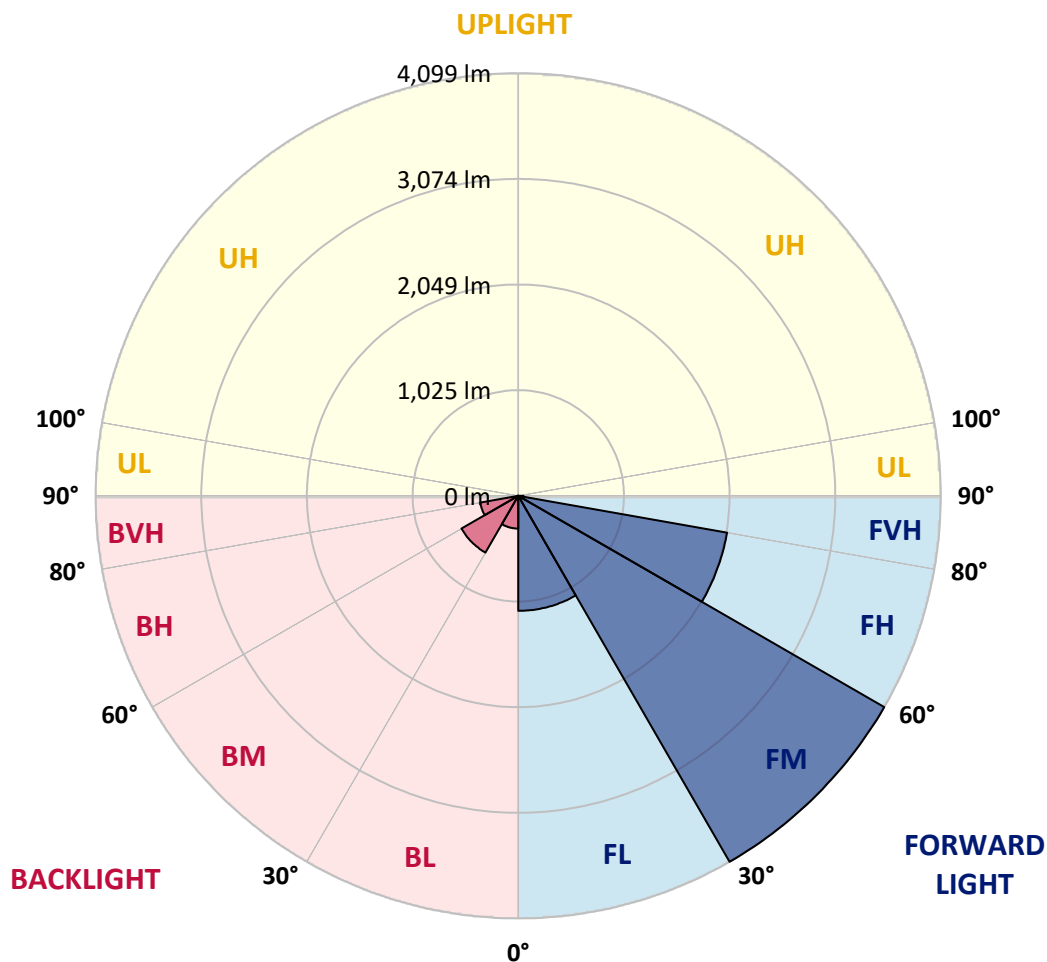
CATALOG NUMBER: ARCH4-70-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1115.5	12.9			
FM	(30°-60°)	4098.9	47.3			
FH	(60°-80°)	2056.8	23.7			G2/5000
FVH	(80°-90°)	50.7	0.6			G1/100
BL	(0°-30°)	317.5	3.7	B1/500		
BM	(30°-60°)	636.0	7.3	B1/1000		
BH	(60°-80°)	374.9	4.3	B1/500		G1/500
BVH	(80°-90°)	14.8	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 II Short



REPORT NUMBER: P842596

CATALOG NUMBER: ARCH4-70-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1867.3	1888.1	1876.7	1884.3	1846.5	1822.0	1793.7	1738.9	1708.7	1704.9	1669.1
5°	2141.1	2163.7	2144.9	2139.2	2073.1	2016.5	1952.3	1856.0	1791.8	1780.5	1701.2
7.5°	2414.8	2435.6	2413.0	2396.0	2307.2	2207.2	2112.8	1971.1	1871.1	1852.2	1727.6
10°	2607.4	2626.3	2609.3	2592.3	2499.8	2397.9	2263.8	2078.8	1942.8	1912.6	1744.6
12.5°	2752.8	2764.1	2756.6	2741.5	2654.6	2545.1	2416.7	2199.6	2024.0	1986.3	1771.0
15°	2871.8	2890.6	2881.2	2869.9	2786.8	2677.3	2554.6	2326.1	2118.4	2071.2	1810.7
17.5°	2951.1	2964.3	2966.2	2966.2	2892.5	2784.9	2666.0	2441.3	2212.8	2152.4	1848.4
20°	2986.9	3002.0	3011.5	3026.6	2966.2	2873.6	2752.8	2539.5	2301.6	2233.6	1884.3
22.5°	3003.9	3017.1	3041.7	3075.7	3026.6	2949.2	2837.8	2630.1	2390.3	2318.6	1925.8
25°	3017.1	3034.1	3070.0	3134.2	3100.2	3034.1	2937.8	2733.9	2496.0	2422.4	1986.3
27.5°	3053.0	3073.8	3107.8	3185.2	3143.6	3111.5	3043.6	2845.3	2607.4	2531.9	2059.9
30°	3177.6	3194.6	3192.7	3241.8	3190.8	3181.4	3134.2	2952.9	2715.1	2639.5	2146.7
32.5°	3404.2	3421.2	3379.7	3360.8	3249.4	3251.3	3232.4	3068.1	2843.4	2766.0	2246.8
35°	3647.8	3666.6	3611.9	3579.8	3392.9	3338.1	3347.6	3211.6	2986.9	2909.5	2371.4
37.5°	3864.9	3887.5	3840.3	3793.1	3604.3	3477.8	3475.9	3372.1	3151.2	3071.9	2509.3
40°	3983.8	4010.3	4038.6	4012.2	3813.9	3674.2	3613.8	3536.4	3313.6	3232.4	2658.4
42.5°	4040.5	4114.1	4165.1	4148.1	3985.7	3844.1	3772.4	3708.2	3511.8	3432.5	2835.9
45°	3881.9	3883.8	3991.4	4083.9	4053.7	3959.3	3946.1	3900.8	3738.4	3662.9	3036.0
47.5°	3683.6	3668.5	3744.1	3908.3	3993.3	4017.8	4095.2	4114.1	3997.1	3921.5	3239.9
50°	3207.8	3217.3	3462.7	3698.7	3864.9	4023.5	4201.0	4333.1	4263.3	4191.5	3455.2
52.5°	2609.3	2632.0	2913.3	3432.5	3695.0	3966.8	4263.3	4552.1	4535.2	4467.2	3670.4
55°	2092.0	2127.9	2426.2	2988.8	3477.8	3840.3	4289.7	4752.3	4816.5	4754.2	3881.9
57.5°	1599.2	1637.0	1888.1	2465.8	3200.3	3634.5	4270.8	4927.9	5078.9	5039.3	4076.4
60°	1204.6	1242.4	1402.8	1999.5	2852.9	3404.2	4176.4	5043.0	5314.9	5273.4	4218.0
62.5°	862.8	893.1	1012.0	1555.8	2430.0	3130.4	3944.2	5044.9	5449.0	5415.0	4285.9
65°	621.2	621.2	717.5	1110.2	2033.5	2801.9	3593.0	4812.7	5420.7	5411.2	4238.7
67.5°	447.5	451.2	528.7	776.0	1621.9	2403.5	3138.0	4399.2	5201.6	5248.8	4068.8
70°	317.2	326.6	362.5	541.9	1225.4	1897.5	2650.9	3857.3	4807.0	4890.1	3740.3
72.5°	245.4	251.1	275.7	377.6	894.9	1410.4	2112.8	3253.2	4280.3	4374.7	3292.8
75°	188.8	194.5	213.4	277.5	641.9	989.4	1501.0	2524.4	3451.4	3619.4	2645.2
77.5°	137.8	145.4	158.6	202.0	373.8	628.7	910.1	1419.8	1905.1	1984.4	1385.8
80°	64.2	73.6	92.5	130.3	202.0	296.4	322.9	547.5	915.7	957.3	751.5
82.5°	35.9	45.3	52.9	79.3	102.0	105.7	109.5	137.8	345.5	381.4	315.3
85°	17.0	22.7	24.5	34.0	34.0	30.2	35.9	26.4	56.6	68.0	66.1
87.5°	0.0	1.9	3.8	9.4	7.6	5.7	5.7	5.7	5.7	7.6	5.7
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: P842596

CATALOG NUMBER: ARCH4-70-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1652.1	1627.5	1570.9	1521.8	1489.7	1461.4	1423.6	1406.6	1376.4	1382.1	1365.1
5°	1661.5	1616.2	1516.1	1423.6	1355.6	1295.2	1229.1	1191.4	1149.8	1146.1	1132.8
7.5°	1667.2	1597.3	1453.8	1323.5	1219.7	1127.2	1038.4	989.4	938.4	927.0	915.7
10°	1661.5	1569.0	1389.6	1219.7	1081.9	966.7	866.6	804.3	751.5	738.2	726.9
12.5°	1667.2	1553.9	1329.2	1123.4	959.1	828.9	715.6	651.4	602.3	589.1	581.5
15°	1680.4	1544.4	1278.2	1036.6	849.6	704.3	592.9	538.1	498.5	485.2	481.5
17.5°	1691.7	1535.0	1223.5	951.6	740.1	594.7	498.5	453.1	419.2	405.9	402.2
20°	1706.8	1521.8	1168.7	870.4	643.8	507.9	422.9	383.3	356.8	347.4	345.5
22.5°	1720.0	1512.3	1117.7	789.2	555.1	438.0	366.3	334.2	315.3	305.9	305.9
25°	1754.0	1516.1	1074.3	713.7	489.0	383.3	322.9	298.3	283.2	277.5	277.5
27.5°	1793.7	1531.2	1040.3	649.5	432.4	341.7	292.7	271.9	264.3	256.8	258.7
30°	1850.3	1561.4	1017.7	596.6	390.8	309.6	268.1	253.0	245.4	243.6	243.6
32.5°	1922.1	1610.5	1015.8	562.6	360.6	285.1	251.1	237.9	234.1	232.2	232.2
35°	2007.0	1654.0	1004.5	547.5	341.7	268.1	237.9	228.5	226.6	226.6	226.6
37.5°	2109.0	1725.7	996.9	526.8	332.3	258.7	228.5	220.9	220.9	220.9	220.9
40°	2214.7	1784.2	985.6	507.9	328.5	253.0	222.8	213.4	213.4	213.4	213.4
42.5°	2341.2	1869.2	981.8	498.5	322.9	249.2	215.2	203.9	205.8	205.8	207.7
45°	2494.1	1965.5	979.9	489.0	321.0	245.4	207.7	194.5	196.4	194.5	194.5
47.5°	2649.0	2076.9	985.6	483.3	319.1	241.7	202.0	185.0	185.0	183.1	183.1
50°	2811.3	2178.8	989.4	477.7	315.3	234.1	192.6	177.5	173.7	169.9	171.8
52.5°	2964.3	2273.2	991.2	468.2	304.0	222.8	185.0	168.0	162.4	156.7	158.6
55°	3117.2	2363.9	995.0	456.9	288.9	211.5	175.6	158.6	151.0	143.5	143.5
57.5°	3255.0	2443.2	985.6	428.6	271.9	200.1	166.2	147.3	135.9	128.4	128.4
60°	3349.4	2499.8	957.3	387.1	249.2	186.9	156.7	135.9	122.7	117.1	117.1
62.5°	3394.8	2509.3	906.3	319.1	220.9	173.7	145.4	124.6	113.3	109.5	109.5
65°	3351.3	2467.7	827.0	239.8	190.7	158.6	134.1	115.2	103.8	94.4	94.4
67.5°	3200.3	2350.7	717.5	181.3	162.4	143.5	122.7	105.7	92.5	85.0	85.0
70°	2896.3	2107.1	555.1	145.4	137.8	124.6	111.4	94.4	83.1	73.6	73.6
72.5°	2497.9	1786.1	390.8	117.1	117.1	105.7	94.4	83.1	71.7	64.2	64.2
75°	1916.4	1321.7	262.4	94.4	96.3	88.7	77.4	68.0	60.4	54.8	54.8
77.5°	1046.0	653.3	160.5	69.9	71.7	68.0	60.4	54.8	51.0	45.3	45.3
80°	507.9	287.0	92.5	49.1	51.0	49.1	45.3	39.6	39.6	35.9	35.9
82.5°	213.4	107.6	49.1	34.0	34.0	30.2	28.3	28.3	28.3	26.4	26.4
85°	52.9	20.8	20.8	18.9	18.9	18.9	17.0	17.0	17.0	13.2	15.1
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.7	1.9	0.0	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)