

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: P836106

Luminaire Tested: **ARCH3-140-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19262 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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

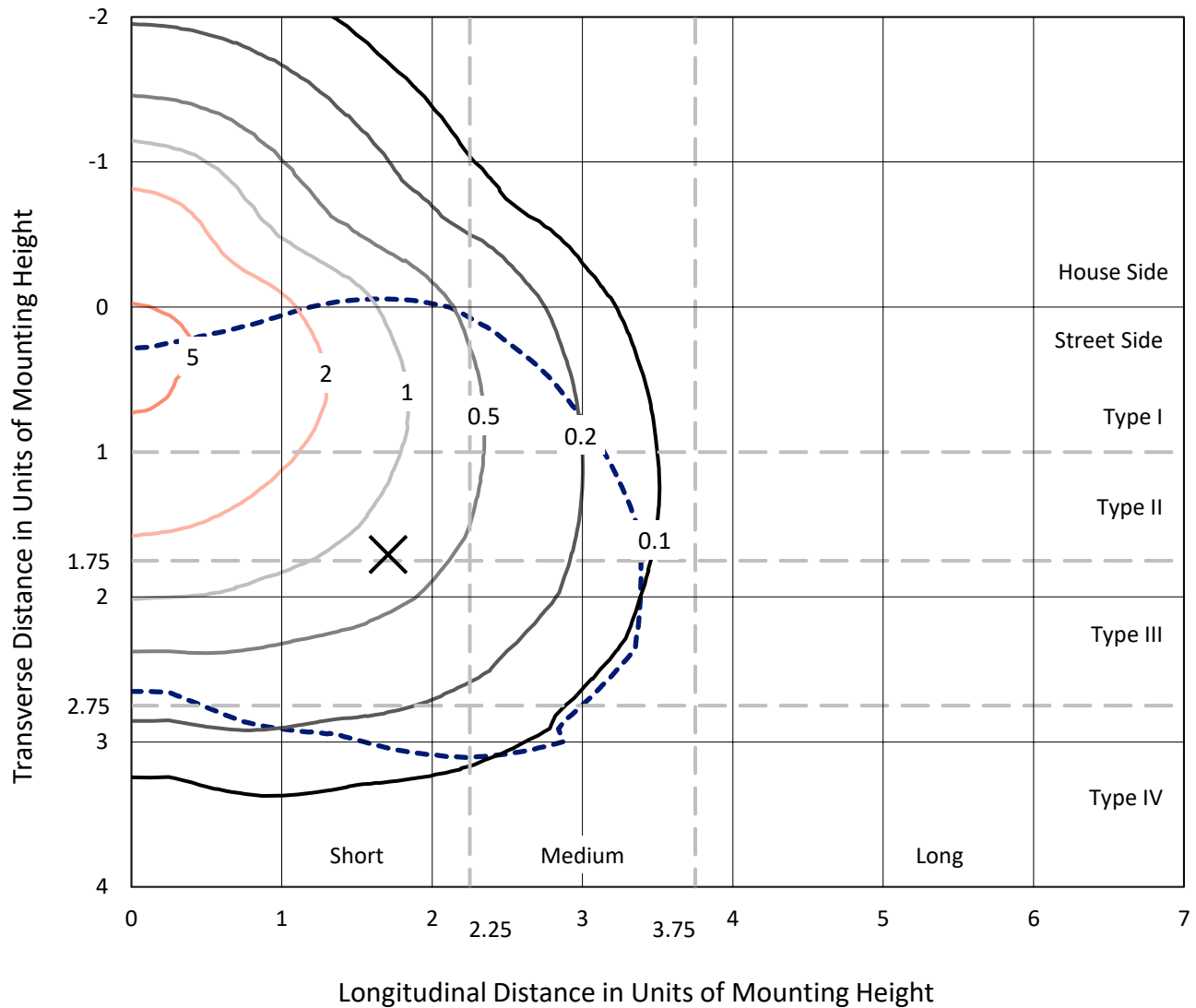


REPORT NUMBER: P836106

CATALOG NUMBER: ARCH3-140-727-U-T4W

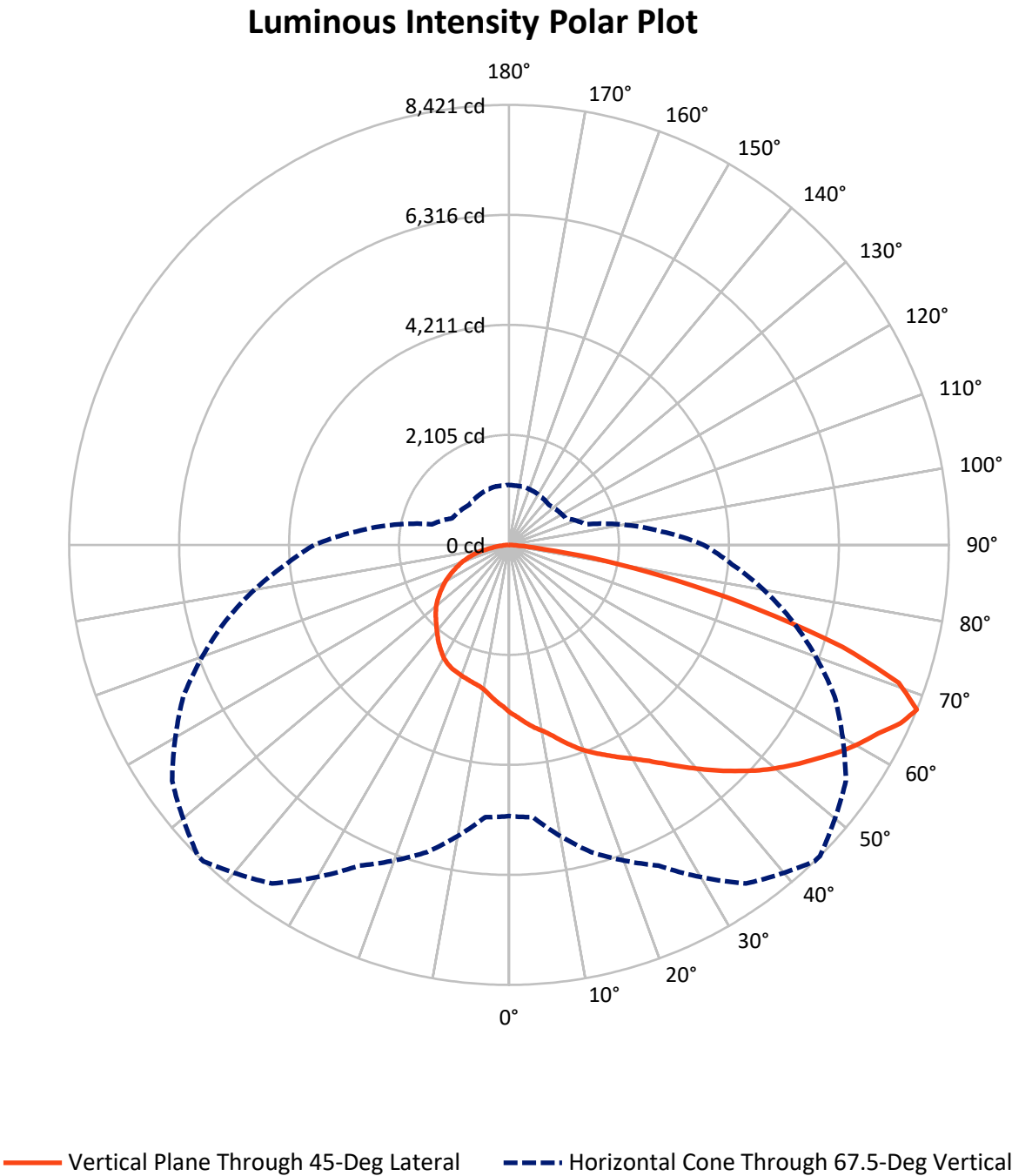
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P836106
CATALOG NUMBER: ARCH3-140-727-U-T4W



REPORT NUMBER: P836106

CATALOG NUMBER: ARCH3-140-727-U-T4W

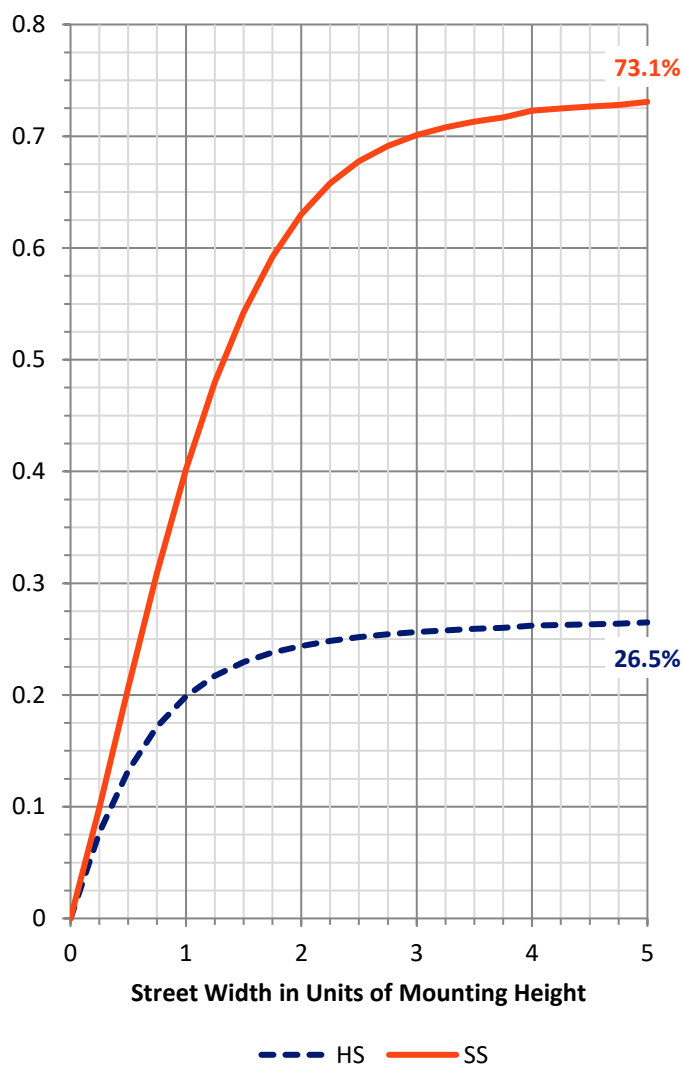
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.9	0.0	5145.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14116.1	0.0	14116.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	19262.0	0.0	19262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.6
10°-20°	950.2	4.9
20°-30°	1640.1	8.5
30°-40°	2418.6	12.6
40°-50°	3276.7	17.0
50°-60°	4004.9	20.8
60°-70°	4130.5	21.4
70°-80°	2262.4	11.7
80°-90°	271.2	1.4
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°	19262.0	100.0
0°-180°	19262.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836106

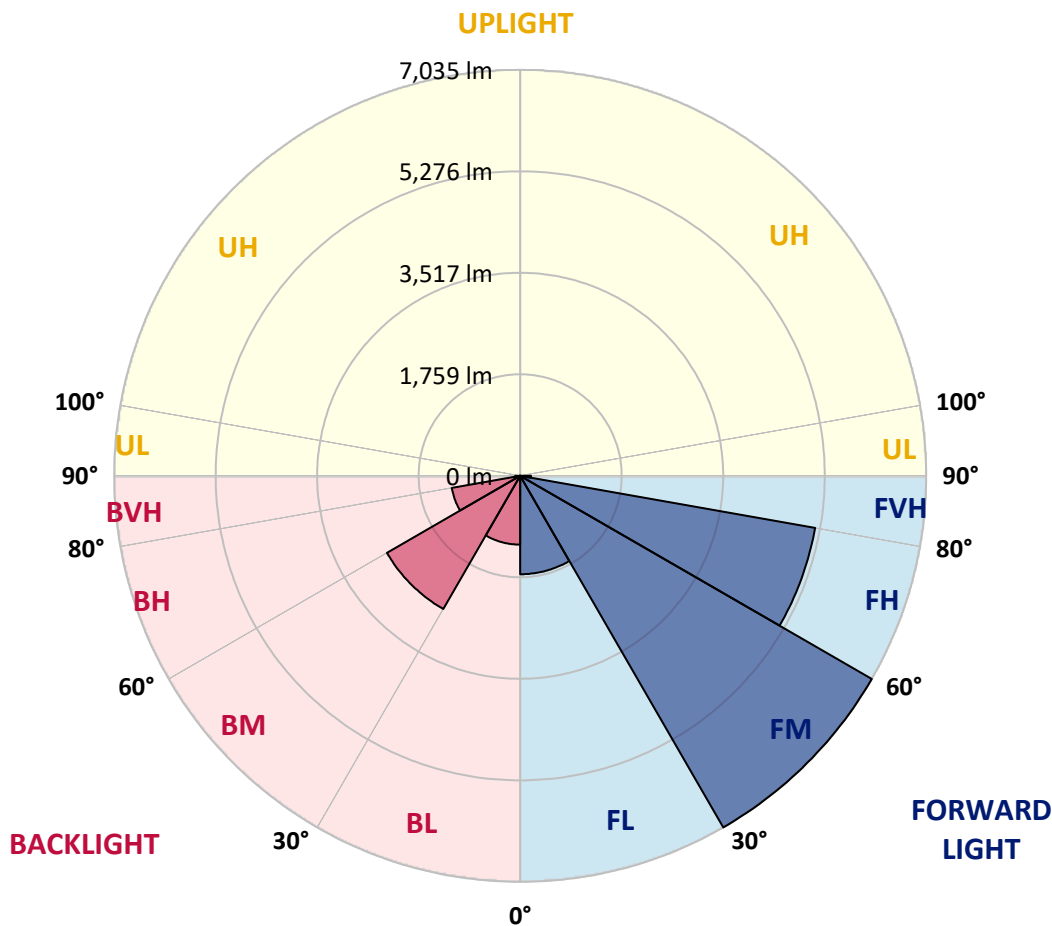
CATALOG NUMBER: ARCH3-140-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.2	8.9			
FM	(30°-60°)	7034.7	36.5			
FH	(60°-80°)	5189.5	26.9			G3/7500
FVH	(80°-90°)	186.8	1.0			G2/225
BL	(0°-30°)	1192.6	6.2	B3/2500		
BM	(30°-60°)	2665.5	13.8	B3/5000		
BH	(60°-80°)	1203.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	84.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



REPORT NUMBER: P836106

CATALOG NUMBER: ARCH3-140-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5
2.5°	3353.2	3350.3	3356.2	3335.6	3309.3	3306.3	3306.3	3288.7	3268.2	3227.2	3194.9
5°	3511.5	3505.7	3508.6	3479.3	3444.1	3426.5	3423.6	3385.5	3338.6	3274.1	3215.5
7.5°	3658.1	3652.2	3649.3	3617.0	3564.3	3535.0	3532.0	3476.3	3420.6	3321.0	3236.0
10°	3795.8	3790.0	3784.1	3740.1	3675.7	3631.7	3625.8	3555.5	3485.1	3362.0	3253.6
12.5°	3971.7	3960.0	3954.1	3901.4	3807.6	3760.7	3751.9	3658.1	3570.1	3420.6	3288.7
15°	4156.4	4147.6	4138.8	4088.9	3983.4	3921.9	3907.2	3790.0	3669.8	3496.9	3341.5
17.5°	4294.1	4285.3	4285.3	4241.4	4144.6	4074.3	4062.6	3921.9	3772.4	3567.2	3382.5
20°	4379.1	4370.3	4379.1	4352.8	4279.5	4220.9	4209.1	4053.8	3875.0	3631.7	3417.7
22.5°	4440.7	4431.9	4446.5	4434.8	4382.1	4346.9	4338.1	4185.7	3980.5	3699.1	3452.9
25°	4549.1	4549.1	4549.1	4528.6	4478.8	4467.1	4467.1	4335.2	4115.3	3787.0	3505.7
27.5°	4766.0	4754.3	4739.7	4681.0	4596.0	4593.1	4610.7	4487.6	4270.7	3901.4	3570.1
30°	5085.5	5079.7	5024.0	4900.9	4757.3	4742.6	4754.3	4651.7	4437.8	4021.5	3643.4
32.5°	5498.8	5478.3	5364.0	5179.3	4974.2	4906.7	4930.2	4821.7	4613.6	4144.6	3713.8
35°	5791.9	5797.8	5715.7	5548.7	5305.4	5126.6	5144.2	5012.3	4804.1	4282.4	3801.7
37.5°	6129.0	6149.5	6026.4	5900.4	5674.7	5369.9	5387.4	5208.6	4994.7	4455.3	3895.5
40°	6595.1	6554.0	6345.9	6196.4	5947.3	5624.9	5639.5	5428.5	5214.5	4619.5	4003.9
42.5°	6984.9	6911.6	6659.6	6469.0	6170.1	5894.5	5909.2	5665.9	5437.3	4801.2	4124.1
45°	7544.8	7342.5	6979.1	6885.3	6398.7	6158.3	6173.0	5918.0	5671.8	4994.7	4253.1
47.5°	7870.1	7547.7	7316.1	7266.3	6650.8	6430.9	6448.5	6184.7	5923.8	5214.5	4387.9
50°	7849.6	7641.5	7574.1	7451.0	6873.5	6685.9	6703.5	6460.2	6178.9	5431.4	4516.9
52.5°	7714.8	7752.9	7717.7	7512.5	7096.3	6932.2	6952.7	6732.8	6439.7	5633.7	4637.1
55°	7922.9	7949.3	7881.9	7612.2	7342.5	7178.4	7201.8	7020.1	6697.7	5812.5	4739.7
57.5°	8172.0	8078.2	8010.8	7788.1	7597.5	7445.1	7471.5	7313.2	6920.4	5956.1	4818.8
60°	8160.3	7963.9	8031.3	7799.8	7770.5	7691.3	7714.8	7553.6	7090.4	6061.6	4851.0
62.5°	7559.4	7453.9	7793.9	7714.8	7911.2	7911.2	7940.5	7700.1	7193.0	6105.6	4833.5
65°	6515.9	6521.8	7119.8	7448.0	8078.2	8213.1	8236.5	7791.0	7134.4	5976.6	4669.3
67.5°	5191.1	5229.2	6088.0	6770.9	7911.2	8418.3	8421.2	7873.1	6882.3	5613.1	4288.3
70°	3798.8	3828.1	4842.3	5671.8	7122.7	7963.9	7917.0	7641.5	6334.2	4980.0	3693.2
72.5°	2567.7	2594.1	3637.6	4355.7	5844.7	6782.7	6680.1	6753.4	5399.2	4091.9	2969.3
75°	1726.4	1758.7	2588.2	3115.8	4300.0	5150.0	4921.4	5114.9	4176.9	3098.2	2166.1
77.5°	1087.5	1108.0	1644.4	2043.0	2937.0	3505.7	3277.0	3280.0	2406.5	1667.8	1163.7
80°	691.8	697.6	996.6	1178.3	1700.1	2107.5	1864.2	1515.4	1084.5	885.2	694.7
82.5°	401.6	392.8	595.0	665.4	809.0	800.2	662.4	627.3	474.8	442.6	354.7
85°	161.2	149.5	260.9	243.3	246.2	260.9	193.5	193.5	155.4	120.2	87.9
87.5°	32.2	32.2	35.2	32.2	32.2	35.2	26.4	26.4	23.4	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

REPORT NUMBER: P836106

CATALOG NUMBER: ARCH3-140-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5
2.5°	3189.1	3183.2	3168.6	3130.5	3109.9	3098.2	3080.6	3074.8	3071.8	3074.8	3083.6
5°	3197.9	3177.4	3136.3	3074.8	3033.7	3007.4	2978.0	2966.3	2957.5	2957.5	2966.3
7.5°	3203.7	3171.5	3101.2	3010.3	2951.7	2910.6	2875.5	2860.8	2857.9	2866.7	2869.6
10°	3206.7	3159.8	3060.1	2945.8	2869.6	2816.8	2781.7	2772.9	2781.7	2799.2	2802.2
12.5°	3227.2	3162.7	3036.7	2901.8	2811.0	2758.2	2731.8	2731.8	2755.3	2787.5	2790.5
15°	3262.4	3183.2	3024.9	2866.7	2772.9	2726.0	2717.2	2731.8	2767.0	2816.8	2822.7
17.5°	3288.7	3194.9	2998.6	2819.8	2723.0	2693.7	2708.4	2743.6	2793.4	2860.8	2866.7
20°	3306.3	3194.9	2960.5	2764.1	2673.2	2667.3	2708.4	2764.1	2816.8	2896.0	2904.8
22.5°	3323.9	3189.1	2916.5	2696.7	2617.5	2635.1	2711.3	2781.7	2834.4	2919.4	2934.1
25°	3356.2	3197.9	2872.5	2629.2	2558.9	2608.7	2708.4	2793.4	2849.1	2937.0	2960.5
27.5°	3400.1	3218.4	2840.3	2567.7	2500.3	2567.7	2687.9	2790.5	2849.1	2934.1	2960.5
30°	3447.0	3241.8	2802.2	2500.3	2432.9	2509.1	2643.9	2758.2	2825.6	2904.8	2937.0
32.5°	3496.9	3268.2	2769.9	2427.0	2350.8	2429.9	2579.4	2708.4	2781.7	2854.9	2890.1
35°	3564.3	3315.1	2752.3	2368.4	2277.5	2347.8	2497.3	2643.9	2723.0	2790.5	2831.5
37.5°	3646.3	3373.7	2743.6	2309.7	2198.4	2257.0	2409.4	2564.8	2649.8	2705.4	2743.6
40°	3740.1	3447.0	2740.6	2254.1	2119.2	2163.2	2318.5	2473.9	2556.0	2599.9	2632.2
42.5°	3845.7	3529.1	2734.8	2198.4	2040.1	2075.3	2230.6	2383.0	2453.4	2491.5	2520.8
45°	3957.0	3611.2	2723.0	2130.9	1955.1	1996.1	2139.7	2274.6	2347.8	2380.1	2412.3
47.5°	4068.4	3693.2	2699.6	2054.7	1878.9	1917.0	2043.0	2160.3	2218.9	2248.2	2280.4
50°	4176.9	3766.5	2643.9	1966.8	1799.7	1834.9	1931.6	2010.8	2054.7	2078.2	2110.4
52.5°	4273.6	3816.4	2564.8	1864.2	1720.6	1738.2	1802.7	1870.1	1905.2	1908.2	1937.5
55°	4355.7	3842.7	2450.4	1758.7	1635.6	1638.5	1673.7	1726.4	1741.1	1729.4	1749.9
57.5°	4402.6	3828.1	2324.4	1650.2	1547.6	1535.9	1562.3	1588.7	1591.6	1562.3	1582.8
60°	4414.3	3760.7	2160.3	1541.8	1459.7	1427.5	1436.3	1430.4	1424.5	1412.8	1430.4
62.5°	4355.7	3617.0	1978.5	1436.3	1365.9	1316.1	1313.2	1310.2	1319.0	1321.9	1324.9
65°	4141.7	3347.4	1761.6	1327.8	1266.3	1198.8	1195.9	1231.1	1242.8	1225.2	1231.1
67.5°	3728.4	2934.1	1524.2	1201.8	1140.2	1081.6	1105.0	1125.6	1146.1	1140.2	1146.1
70°	3142.2	2409.4	1307.3	1061.1	1002.5	970.2	996.6	1014.2	1017.1	1011.2	1017.1
72.5°	2471.0	1881.8	1105.0	917.4	864.7	850.0	882.3	896.9	923.3	935.0	938.0
75°	1785.1	1389.4	905.7	762.1	718.1	718.1	747.4	773.8	797.3	782.6	773.8
77.5°	996.6	829.5	650.7	524.7	533.5	574.5	586.2	615.5	639.0	636.1	630.2
80°	603.8	518.8	439.7	340.0	337.1	369.3	445.5	495.4	507.1	480.7	477.8
82.5°	313.6	272.6	234.5	190.5	211.0	246.2	257.9	310.7	342.9	331.2	345.9
85°	79.1	76.2	85.0	87.9	108.5	120.2	131.9	155.4	102.6	49.8	49.8
87.5°	23.4	23.4	29.3	29.3	38.1	46.9	44.0	44.0	23.4	2.9	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)