

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: P842669

Luminaire Tested: **ARCH4-80-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

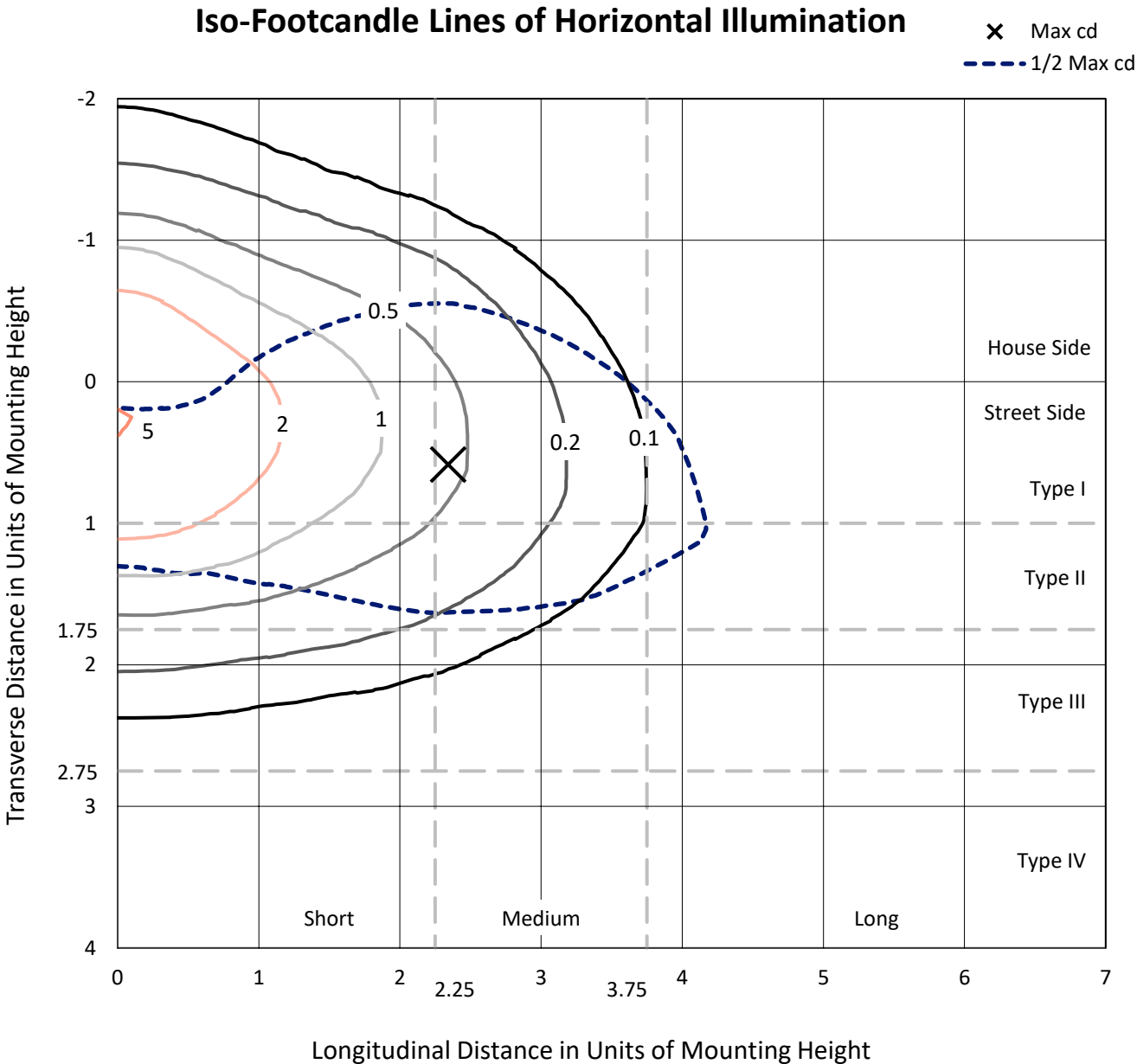
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 83.4
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



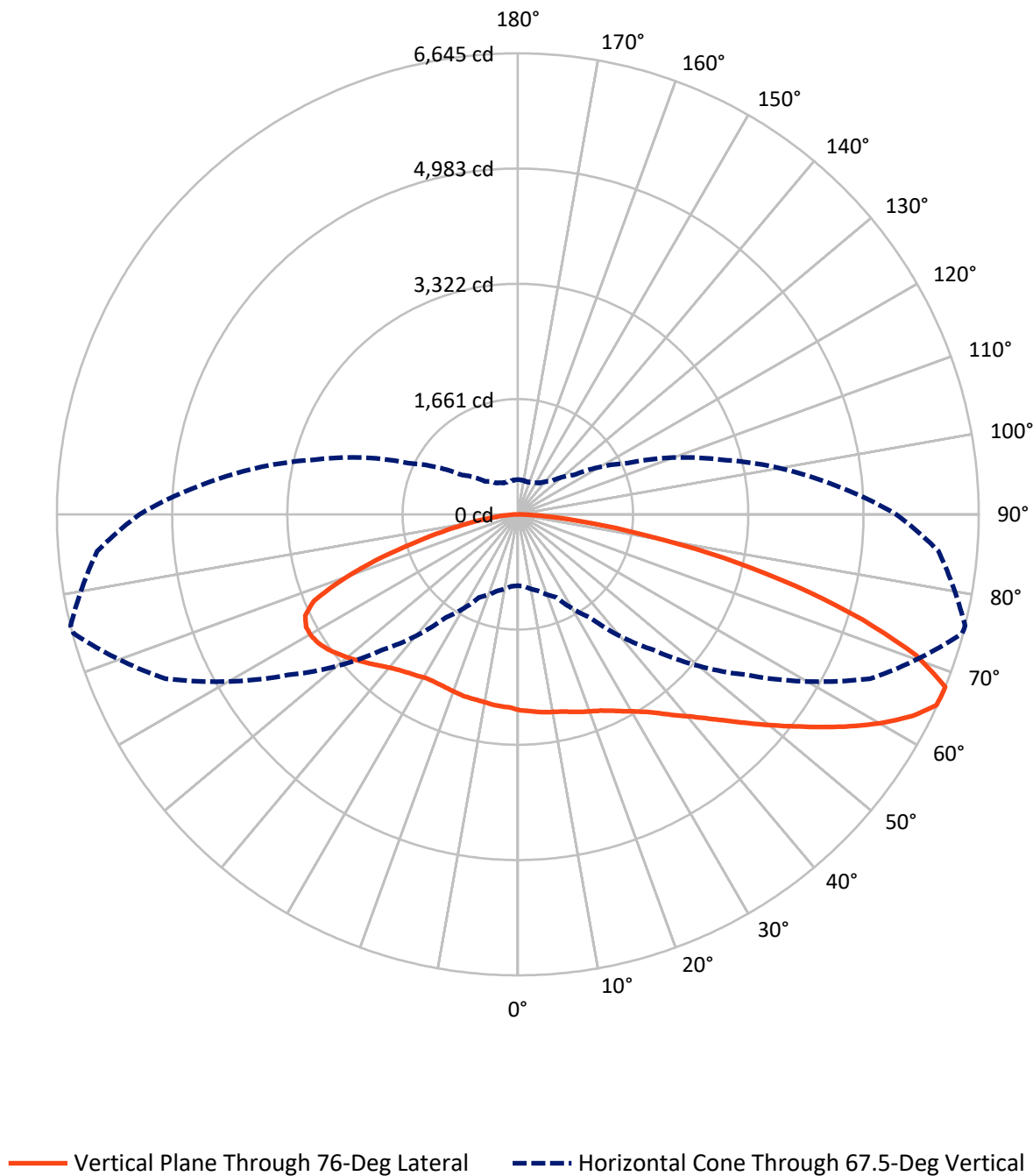
REPORT NUMBER: P842669
CATALOG NUMBER: ARCH4-80-727-U-T2U



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

REPORT NUMBER: P842669
CATALOG NUMBER: ARCH4-80-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P842669

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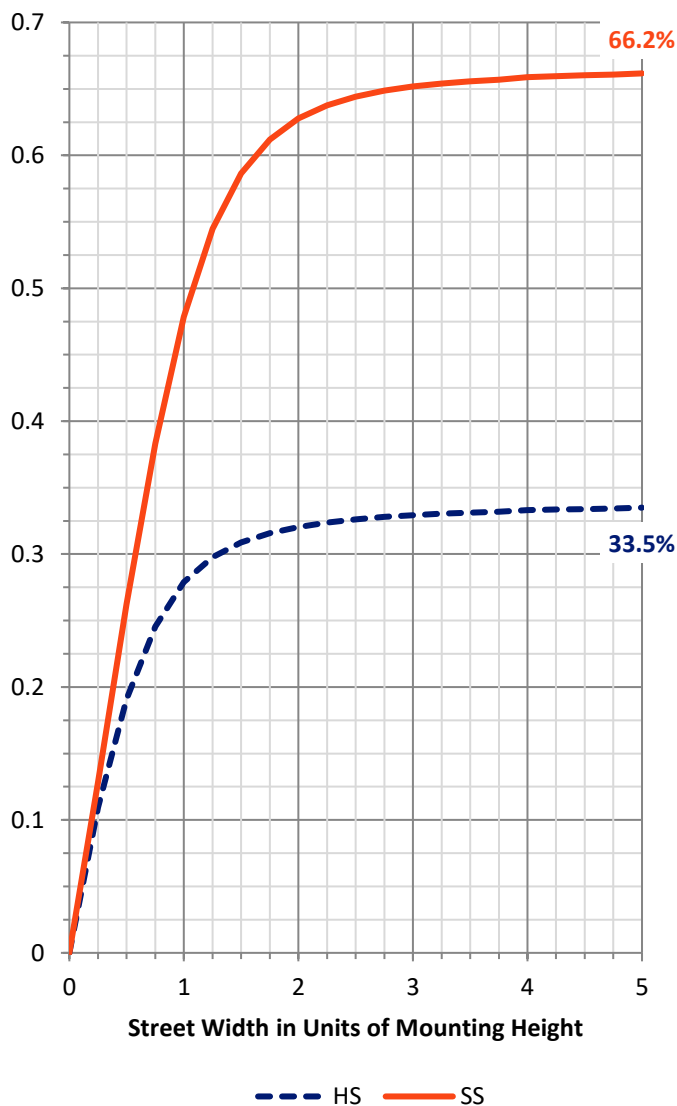
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4723.9	0.0	4723.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9256.1	0.0	9256.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	13980.0	0.0	13980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	1.9
10°-20°	832.5	6.0
20°-30°	1414.4	10.1
30°-40°	2012.5	14.4
40°-50°	2541.7	18.2
50°-60°	2751.9	19.7
60°-70°	2559.6	18.3
70°-80°	1374.7	9.8
80°-90°	220.3	1.6
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°	13980.0	100.0
0°-180°	13980.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842669

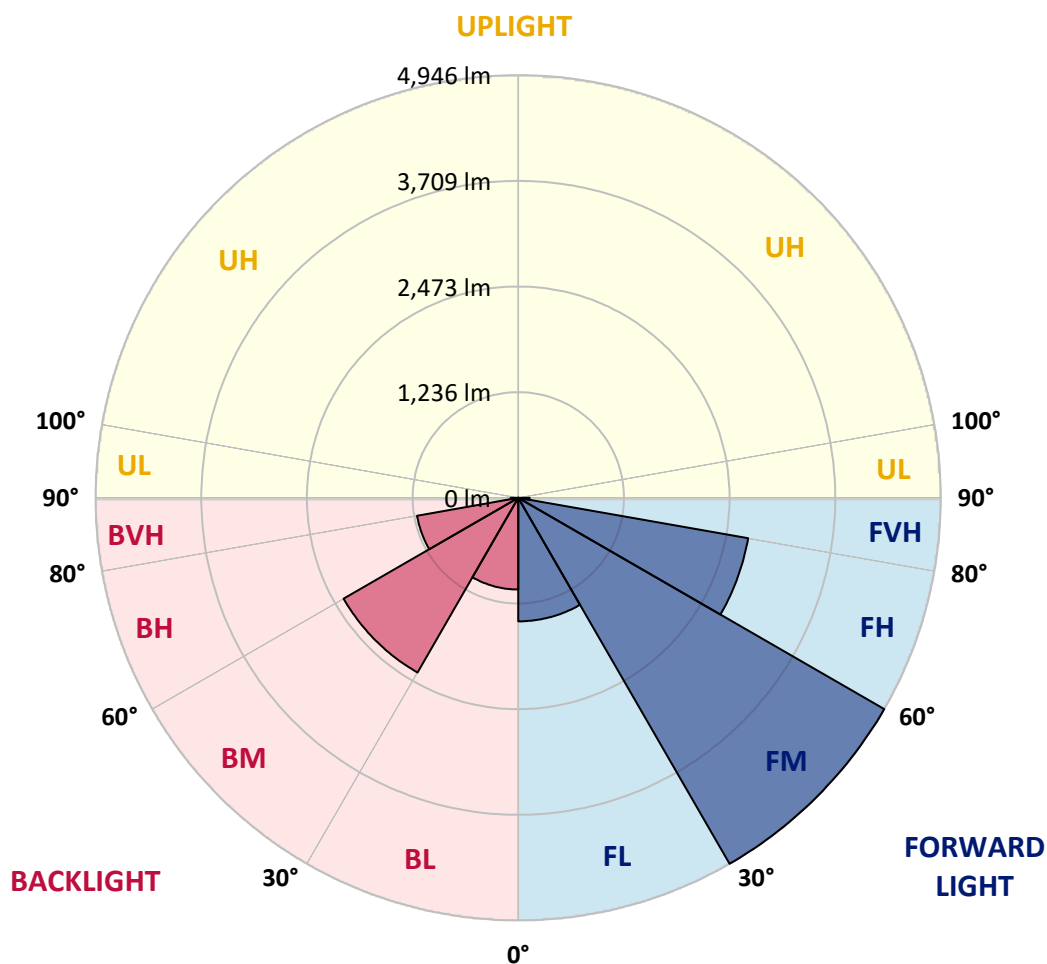
CATALOG NUMBER: ARCH4-80-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.7	10.3			
FM	(30°-60°)	4945.6	35.4			
FH	(60°-80°)	2731.6	19.5			G2/5000
FVH	(80°-90°)	133.3	1.0			G2/225
BL	(0°-30°)	1073.5	7.7	B3/2500		
BM	(30°-60°)	2360.6	16.9	B2/2500		
BH	(60°-80°)	1202.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	87.0	0.6			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 II Medium



REPORT NUMBER: P842669

CATALOG NUMBER: ARCH4-80-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9
2.5°	2909.6	2904.4	2883.6	2886.2	2886.2	2883.6	2852.5	2839.5	2839.5	2836.9	2808.4
5°	3013.4	3005.6	2982.3	2977.1	2966.7	2953.7	2904.4	2875.8	2862.9	2860.3	2821.3
7.5°	3135.4	3125.0	3096.5	3080.9	3054.9	3021.2	2958.9	2914.8	2883.6	2881.0	2826.5
10°	3257.4	3247.0	3213.3	3184.7	3148.4	3093.9	3013.4	2948.5	2899.2	2894.0	2829.1
12.5°	3402.7	3392.3	3350.8	3314.5	3260.0	3187.3	3080.9	2992.6	2925.2	2917.4	2836.9
15°	3555.9	3540.3	3498.8	3457.2	3389.8	3296.3	3169.1	3052.3	2966.7	2953.7	2860.3
17.5°	3683.0	3662.3	3628.5	3587.0	3511.7	3402.7	3257.4	3112.0	3005.6	2995.2	2883.6
20°	3792.1	3776.5	3740.1	3701.2	3620.8	3501.4	3340.4	3171.7	3042.0	3029.0	2901.8
22.5°	3895.9	3875.1	3854.4	3825.8	3737.6	3605.2	3436.5	3244.4	3088.7	3073.1	2925.2
25°	4015.3	3991.9	3984.1	3968.6	3864.7	3729.8	3553.3	3335.2	3153.6	3135.4	2966.7
27.5°	4163.2	4137.3	4121.7	4121.7	3997.1	3856.9	3677.9	3441.7	3228.8	3213.3	3018.6
30°	4319.0	4287.8	4264.4	4264.4	4124.3	3984.1	3799.8	3548.1	3314.5	3296.3	3086.1
32.5°	4456.5	4425.4	4399.4	4396.8	4251.5	4111.3	3927.0	3664.9	3418.3	3394.9	3169.1
35°	4562.9	4534.4	4511.0	4516.2	4378.6	4241.1	4069.8	3820.6	3548.1	3522.1	3278.1
37.5°	4627.8	4617.4	4604.5	4622.6	4495.4	4365.7	4217.7	3971.2	3696.0	3672.7	3413.1
40°	4661.6	4653.8	4705.7	4729.0	4594.1	4477.3	4365.7	4126.9	3856.9	3831.0	3568.8
42.5°	4710.9	4775.8	4796.5	4791.3	4666.8	4562.9	4500.6	4295.6	4046.4	4023.1	3755.7
45°	4534.4	4518.8	4633.0	4695.3	4671.9	4617.4	4627.8	4498.0	4267.0	4243.7	3971.2
47.5°	4298.2	4277.4	4342.3	4495.4	4586.3	4638.2	4742.0	4708.3	4521.4	4500.6	4222.9
50°	3799.8	3828.4	4069.8	4274.8	4453.9	4633.0	4838.1	4934.1	4801.7	4781.0	4492.9
52.5°	3247.0	3275.6	3527.3	3999.7	4293.0	4594.1	4908.1	5159.9	5105.4	5082.0	4781.0
55°	2844.7	2907.0	3192.5	3535.1	4064.6	4472.1	4949.7	5390.9	5432.4	5411.7	5095.0
57.5°	2445.0	2491.7	2707.1	3010.8	3753.1	4259.3	4947.1	5606.3	5775.0	5754.3	5414.3
60°	1975.2	2034.9	2206.2	2533.2	3337.8	4004.9	4874.4	5775.0	6104.7	6089.1	5723.1
62.5°	1653.3	1671.5	1793.5	2076.4	2803.2	3683.0	4710.9	5865.9	6403.2	6392.8	6000.8
65°	1331.5	1334.1	1445.7	1681.9	2286.7	3283.3	4433.2	5832.1	6629.0	6634.2	6200.7
67.5°	1027.8	1040.8	1142.0	1321.1	1816.9	2764.2	4036.0	5603.7	6631.6	6644.5	6086.5
70°	711.2	721.6	874.7	1048.6	1404.2	2203.6	3498.8	4999.0	6086.5	6096.9	5455.8
72.5°	500.9	506.1	669.6	838.4	1097.9	1661.1	2639.6	4134.7	5188.5	5196.2	4588.9
75°	373.8	378.9	472.4	635.9	840.9	1149.8	1803.9	3166.5	4145.1	4145.1	3623.4
77.5°	264.7	267.3	306.3	438.6	560.6	776.1	1084.9	2073.8	3042.0	3047.1	2639.6
80°	179.1	181.7	199.9	295.9	350.4	420.5	589.2	1087.5	1918.1	1925.9	1676.7
82.5°	93.4	98.6	111.6	150.5	176.5	233.6	303.7	552.8	1061.6	1082.3	1007.1
85°	36.3	36.3	41.5	49.3	64.9	90.8	140.2	210.2	480.2	495.7	443.8
87.5°	13.0	13.0	15.6	15.6	18.2	20.8	23.4	31.1	54.5	54.5	51.9
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: P842669

CATALOG NUMBER: ARCH4-80-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9	2823.9
2.5°	2798.0	2798.0	2785.0	2790.2	2787.6	2782.4	2777.2	2785.0	2777.2	2759.0	2756.4
5°	2803.2	2798.0	2777.2	2774.6	2766.8	2756.4	2743.5	2748.7	2735.7	2720.1	2717.5
7.5°	2805.8	2795.4	2766.8	2756.4	2740.9	2720.1	2699.3	2699.3	2681.2	2665.6	2663.0
10°	2800.6	2787.6	2748.7	2727.9	2699.3	2668.2	2639.6	2631.9	2611.1	2592.9	2592.9
12.5°	2803.2	2785.0	2735.7	2701.9	2663.0	2624.1	2587.7	2577.4	2559.2	2541.0	2538.4
15°	2818.7	2792.8	2730.5	2686.4	2629.3	2585.1	2546.2	2538.4	2522.8	2509.9	2509.9
17.5°	2834.3	2800.6	2722.7	2660.4	2590.3	2541.0	2504.7	2504.7	2494.3	2486.5	2486.5
20°	2842.1	2803.2	2707.1	2624.1	2543.6	2491.7	2458.0	2463.2	2460.6	2458.0	2458.0
22.5°	2860.3	2808.4	2694.2	2590.3	2494.3	2439.8	2408.6	2416.4	2413.8	2413.8	2416.4
25°	2888.8	2821.3	2683.8	2559.2	2447.6	2387.9	2354.1	2359.3	2359.3	2359.3	2359.3
27.5°	2927.8	2847.3	2681.2	2530.6	2400.9	2333.4	2291.8	2291.8	2281.5	2284.1	2286.7
30°	2987.4	2896.6	2686.4	2504.7	2351.5	2265.9	2216.6	2208.8	2206.2	2211.4	2214.0
32.5°	3060.1	2964.1	2717.5	2486.5	2299.6	2190.6	2128.3	2125.7	2117.9	2117.9	2117.9
35°	3151.0	3029.0	2746.1	2483.9	2247.7	2110.2	2042.7	2034.9	2016.7	2008.9	2008.9
37.5°	3267.8	3130.2	2779.8	2465.7	2203.6	2032.3	1951.8	1925.9	1905.1	1902.5	1902.5
40°	3410.5	3244.4	2829.1	2445.0	2156.9	1951.8	1845.4	1801.3	1803.9	1814.3	1814.3
42.5°	3579.2	3384.6	2891.4	2434.6	2089.4	1868.8	1720.8	1668.9	1687.1	1697.5	1700.1
45°	3776.5	3550.7	2961.5	2421.6	2027.1	1775.3	1588.5	1523.6	1531.4	1534.0	1536.5
47.5°	4004.9	3735.0	3034.2	2411.2	1957.0	1658.5	1443.1	1357.5	1354.9	1339.3	1344.5
50°	4243.7	3929.6	3109.4	2393.1	1871.4	1521.0	1290.0	1188.7	1168.0	1144.6	1147.2
52.5°	4498.0	4129.5	3179.5	2364.5	1765.0	1380.8	1144.6	1035.6	994.1	968.1	973.3
55°	4778.4	4334.5	3247.0	2320.4	1653.3	1240.7	1014.8	903.2	851.3	830.6	833.2
57.5°	5035.3	4531.8	3296.3	2265.9	1531.4	1113.5	900.6	791.6	757.9	755.3	757.9
60°	5284.5	4697.9	3317.1	2190.6	1406.8	996.7	794.2	711.2	687.8	700.8	703.4
62.5°	5494.7	4804.3	3306.7	2089.4	1279.6	885.1	708.6	648.9	633.3	659.3	661.9
65°	5616.7	4838.1	3234.0	1944.0	1142.0	776.1	628.1	563.2	555.4	571.0	578.8
67.5°	5455.8	4627.8	3036.8	1744.2	988.9	674.8	550.3	498.3	485.4	498.3	498.3
70°	4835.5	4010.1	2569.6	1427.5	820.2	576.2	477.6	441.2	430.9	441.2	438.6
72.5°	4028.3	3335.2	2024.5	1113.5	646.3	485.4	415.3	381.5	371.2	360.8	355.6
75°	3125.0	2533.2	1469.1	817.6	488.0	389.3	347.8	316.7	290.7	301.1	295.9
77.5°	2289.3	1777.9	1040.8	565.8	350.4	301.1	272.5	249.2	231.0	251.8	249.2
80°	1474.3	1149.8	695.6	378.9	241.4	210.2	199.9	186.9	205.0	267.3	272.5
82.5°	900.6	729.3	415.3	246.6	158.3	140.2	129.8	129.8	210.2	231.0	233.6
85°	402.3	386.7	225.8	127.2	88.2	80.5	72.7	93.4	85.7	62.3	64.9
87.5°	64.9	67.5	49.3	44.1	33.7	33.7	26.0	18.2	13.0	7.8	7.8
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)