

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: P1211099

Luminaire Tested: **ARCH4-170-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25450 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 169.8
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

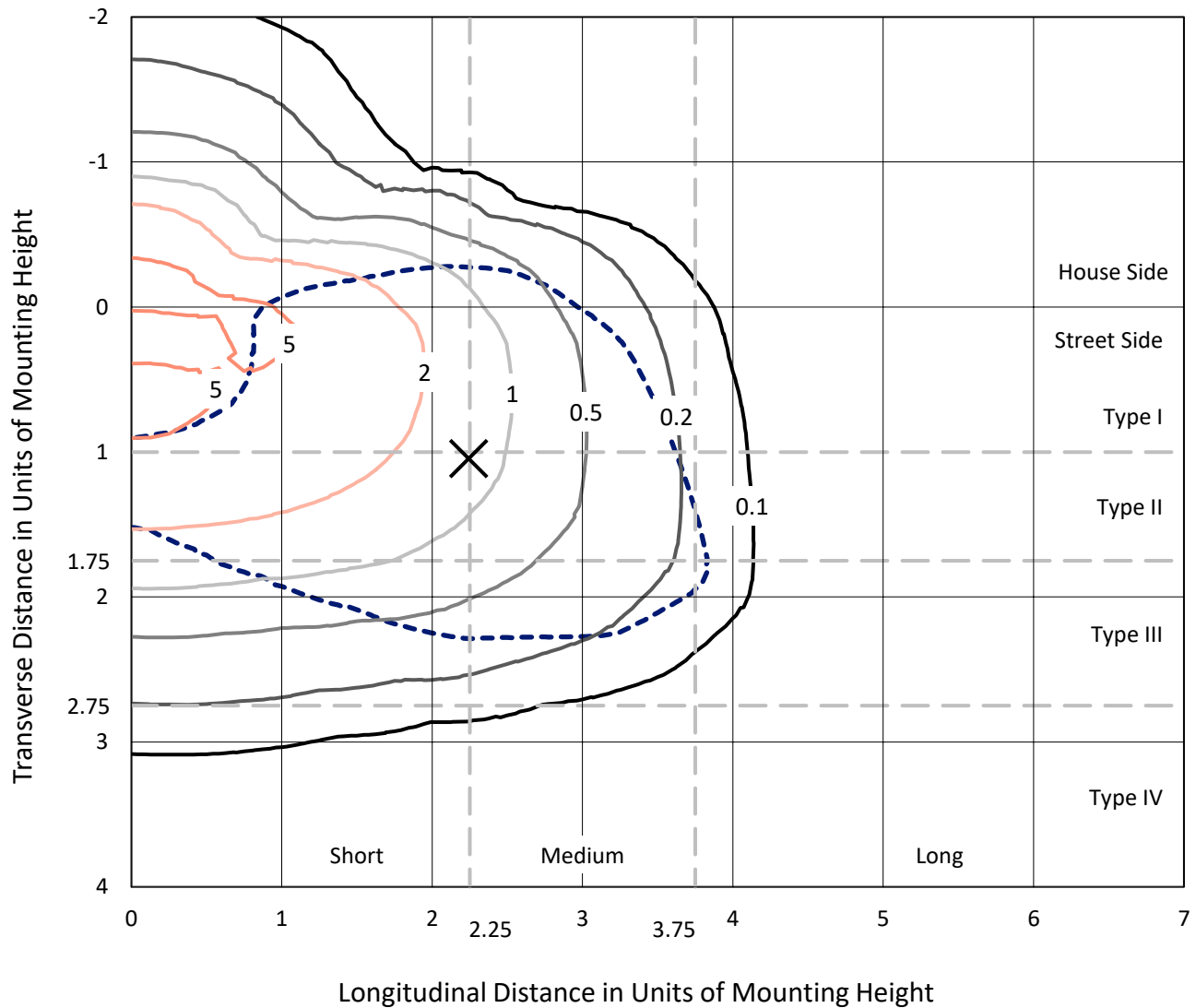


REPORT NUMBER: P1211099

CATALOG NUMBER: ARCH4-170-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

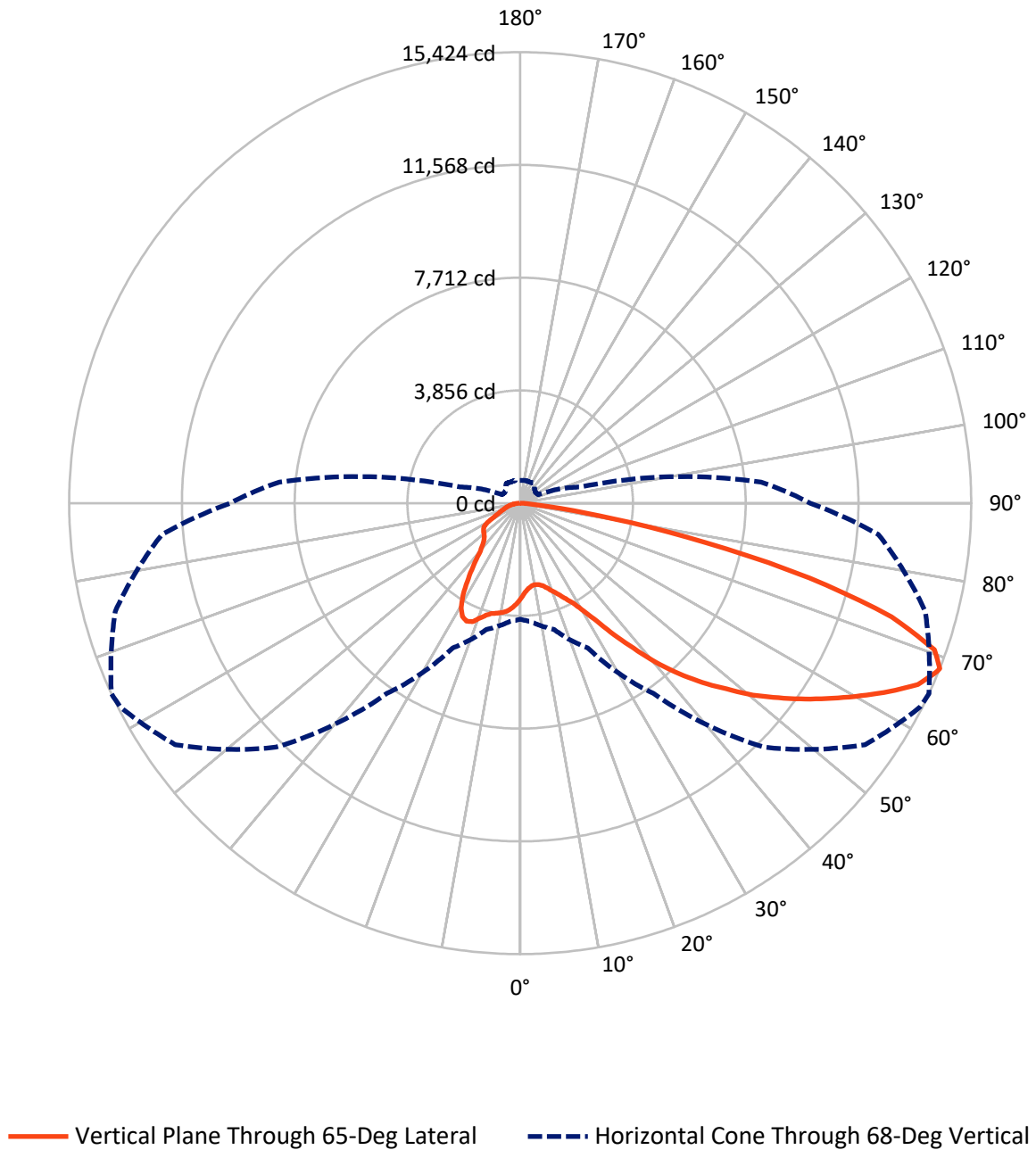


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

REPORT NUMBER: P1211099

CATALOG NUMBER: ARCH4-170-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211099

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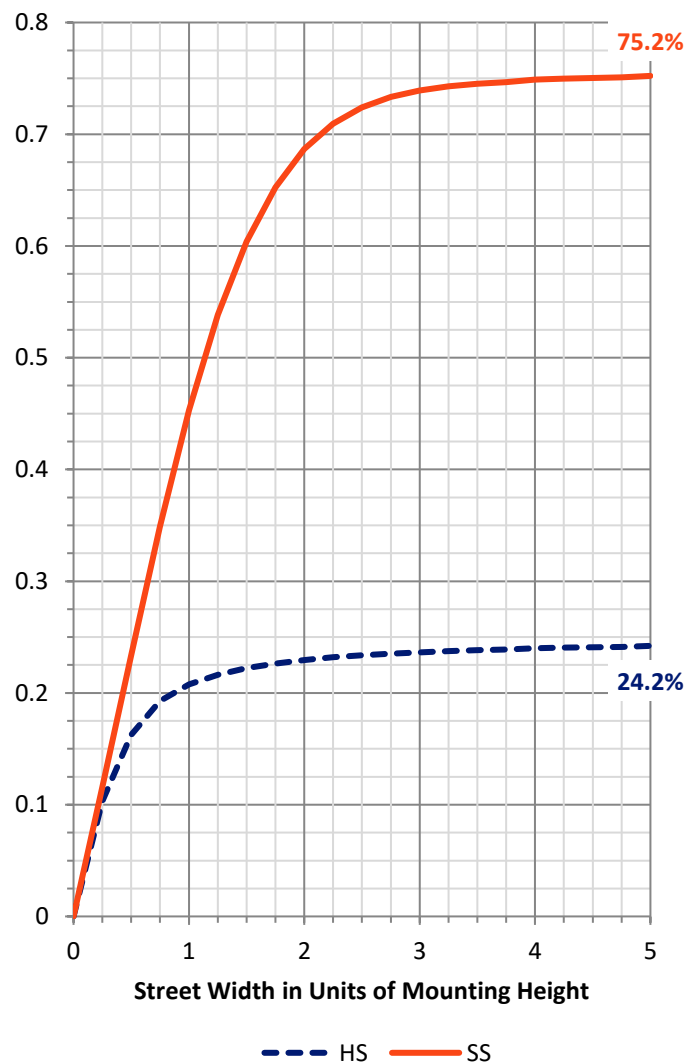
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6239.6	0.0	6239.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	19210.4	0.0	19210.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	25450.0	0.0	25450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	1.2
10°-20°	1012.0	4.0
20°-30°	1831.6	7.2
30°-40°	2881.4	11.3
40°-50°	4291.5	16.9
50°-60°	5629.6	22.1
60°-70°	6156.3	24.2
70°-80°	3046.3	12.0
80°-90°	290.6	1.1
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°	25450.0	100.0
0°-180°	25450.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211099

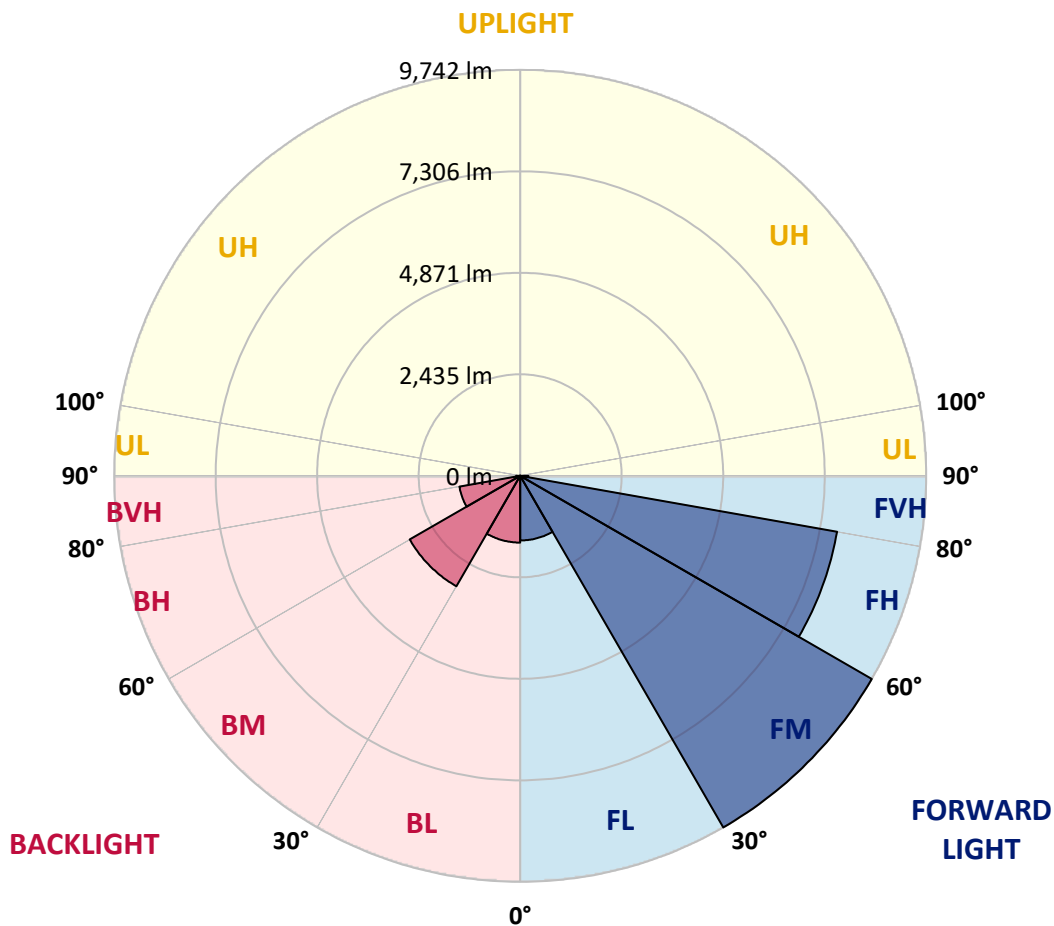
CATALOG NUMBER: ARCH4-170-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.5	6.1			
FM	(30°-60°)	9741.9	38.3			
FH	(60°-80°)	7721.6	30.3			G4/12000
FVH	(80°-90°)	195.4	0.8			G2/225
BL	(0°-30°)	1603.0	6.3	B3/2500		
BM	(30°-60°)	3060.5	12.0	B3/5000		
BH	(60°-80°)	1481.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	95.1	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-G4

Type III Short



REPORT NUMBER: P1211099

CATALOG NUMBER: ARCH4-170-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2
2.5°	2838.7	2832.1	2848.5	2865.0	2901.1	2943.7	3002.8	3052.0	3058.6	3150.5	3222.7
5°	2671.3	2661.5	2677.9	2697.6	2714.0	2766.5	2828.9	2901.1	2930.6	3065.1	3219.4
7.5°	2687.7	2684.5	2691.0	2684.5	2684.5	2707.4	2750.1	2822.3	2855.1	3015.9	3235.8
10°	2782.9	2789.5	2792.8	2773.1	2753.4	2743.5	2756.7	2805.9	2828.9	3019.2	3308.0
12.5°	2940.4	2950.3	2953.6	2917.5	2891.2	2848.5	2825.6	2845.3	2861.7	3052.0	3409.7
15°	3153.7	3160.3	3137.3	3114.4	3048.7	2996.2	2940.4	2924.0	2930.6	3120.9	3524.6
17.5°	3403.2	3393.3	3393.3	3337.5	3252.2	3170.2	3078.3	3065.1	3065.1	3232.5	3688.7
20°	3675.5	3685.4	3655.9	3580.4	3495.0	3367.1	3275.2	3216.1	3222.7	3360.5	3888.9
22.5°	4069.4	4085.8	4007.0	3898.7	3767.4	3619.8	3488.5	3393.3	3396.6	3527.9	4095.6
25°	4492.7	4499.3	4450.0	4305.6	4128.4	3918.4	3744.5	3623.0	3619.8	3714.9	4361.4
27.5°	4925.9	4955.4	4857.0	4719.1	4555.0	4292.5	4062.8	3898.7	3872.4	4000.4	4692.9
30°	5372.2	5408.3	5313.1	5178.6	4975.1	4752.0	4479.6	4289.2	4272.8	4443.5	5135.9
32.5°	5821.8	5831.6	5756.2	5644.6	5460.8	5250.8	5030.9	4820.9	4804.5	5083.4	5710.2
35°	6189.4	6218.9	6166.4	6140.1	6005.6	5812.0	5598.6	5477.2	5519.9	5877.6	6455.2
37.5°	6632.4	6661.9	6602.9	6596.3	6553.6	6386.3	6238.6	6248.4	6291.1	6776.8	7239.5
40°	7272.3	7305.1	7154.2	7088.6	7088.6	6924.5	6875.2	7108.2	7164.0	7662.9	8056.7
42.5°	7813.8	7866.3	7777.7	7735.1	7607.1	7492.2	7551.3	7879.4	7974.6	8509.5	8768.8
45°	8076.4	8115.7	8220.7	8345.5	8220.7	8020.6	8243.7	8614.6	8749.1	9290.6	9480.9
47.5°	8217.5	8253.6	8375.0	8709.7	8795.1	8627.7	8942.7	9405.5	9497.3	10065.1	10160.3
50°	8237.2	8352.0	8509.5	8844.3	9234.8	9257.8	9645.0	10209.5	10317.8	10826.4	10757.5
52.5°	8076.4	8122.3	8447.2	9011.6	9444.8	9838.6	10409.7	10980.7	11059.5	11541.9	11285.9
55°	7813.8	7879.4	8204.3	8972.3	9648.3	10390.0	11187.4	11738.8	11827.4	12237.6	11774.9
57.5°	7577.5	7610.3	7958.2	8857.4	9851.8	10941.3	11879.9	12529.7	12588.7	12848.0	12135.9
60°	7315.0	7351.1	7699.0	8611.3	10002.7	11358.1	12601.9	13327.1	13379.6	13491.2	12555.9
62.5°	6635.7	6730.8	7167.3	8204.3	9963.4	11833.9	13373.1	14114.7	14180.4	14059.0	12887.4
65°	5388.6	5523.2	6058.1	7282.2	9595.8	12142.4	14003.2	14840.0	14951.6	14485.6	12976.0
67.5°	4184.2	4279.4	4709.3	5779.1	8306.1	11988.2	14410.1	15338.8	15371.7	14416.7	12483.7
68°	3967.6	4062.8	4473.0	5464.1	7948.4	11804.4	14400.3	15352.0	15424.2	14341.2	12293.4
70°	3035.6	3143.9	3534.4	4328.6	6405.9	10636.1	13799.7	15036.9	15027.1	13428.9	11112.0
72.5°	1896.8	1959.2	2228.3	2730.4	4236.7	8092.8	11712.5	13261.5	13287.7	10947.9	8522.7
75°	1204.4	1204.4	1191.3	1322.5	2172.5	4610.8	8706.4	10209.5	10229.2	7666.1	5372.2
77.5°	1046.9	1017.3	876.2	741.7	866.4	1791.8	5152.3	6593.0	6484.7	4128.4	2549.9
80°	882.8	833.6	718.7	597.3	557.9	561.2	1978.9	3347.4	3203.0	1486.6	846.7
82.5°	636.7	594.0	541.5	469.3	429.9	334.7	413.5	968.1	945.1	429.9	275.7
85°	344.6	311.8	305.2	308.5	259.3	206.7	173.9	213.3	213.3	187.1	157.5
87.5°	121.4	88.6	105.0	118.1	101.7	85.3	68.9	82.0	85.3	82.0	75.5
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: P1211099

CATALOG NUMBER: ARCH4-170-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2	3252.2
2.5°	3265.3	3298.1	3376.9	3445.8	3495.0	3537.7	3560.7	3570.5	3593.5	3596.8	3590.2
5°	3291.6	3376.9	3495.0	3596.8	3652.6	3675.5	3682.1	3685.4	3675.5	3682.1	3675.5
7.5°	3360.5	3468.8	3636.2	3724.8	3734.6	3698.5	3701.8	3688.7	3701.8	3714.9	3714.9
10°	3465.5	3603.3	3760.9	3793.7	3751.0	3731.3	3770.7	3849.5	3875.7	3911.8	3911.8
12.5°	3603.3	3767.4	3879.0	3849.5	3810.1	3875.7	3990.6	4069.4	4095.6	4108.7	4098.9
15°	3760.9	3938.1	3993.9	3895.4	3967.6	4108.7	4148.1	4102.2	4036.5	4007.0	4023.4
17.5°	3961.1	4108.7	4075.9	4010.3	4174.4	4194.1	4066.1	3918.4	3813.4	3774.0	3800.3
20°	4171.1	4299.1	4148.1	4177.7	4279.4	4069.4	3826.5	3636.2	3544.3	3527.9	3554.1
22.5°	4394.2	4476.3	4220.3	4371.3	4220.3	3793.7	3501.6	3403.2	3380.2	3406.4	3429.4
25°	4646.9	4637.1	4345.0	4430.3	4000.4	3455.7	3281.7	3275.2	3275.2	3291.6	3324.4
27.5°	4932.4	4778.2	4469.7	4351.6	3619.8	3176.7	3143.9	3147.2	3137.3	3140.6	3157.0
30°	5263.9	4968.5	4607.6	4092.3	3193.1	2966.7	2953.6	2943.7	2920.7	2914.2	2920.7
32.5°	5680.7	5168.7	4748.7	3665.7	2819.0	2750.1	2743.5	2691.0	2635.2	2628.7	2651.6
35°	6209.0	5533.0	4820.9	3130.8	2510.5	2507.2	2484.3	2402.2	2330.0	2330.0	2313.6
37.5°	6812.9	6002.3	4850.4	2609.0	2254.6	2271.0	2205.3	2100.3	2044.5	2011.7	2021.5
40°	7429.9	6537.2	4847.1	2152.8	2031.4	2034.7	1985.5	1857.5	1719.6	1637.6	1657.3
42.5°	8023.8	7022.9	4761.8	1910.0	1850.9	1841.1	1801.7	1627.7	1512.9	1447.2	1450.5
45°	8499.7	7525.0	4630.5	1765.6	1686.8	1703.2	1614.6	1509.6	1404.6	1345.5	1342.2
47.5°	8975.5	7905.7	4420.5	1677.0	1565.4	1535.9	1499.8	1427.6	1348.8	1283.2	1286.4
50°	9408.7	8230.6	4223.6	1617.9	1453.8	1378.3	1384.9	1342.2	1273.3	1214.2	1211.0
52.5°	9713.9	8443.9	4115.3	1585.1	1319.3	1237.2	1260.2	1237.2	1171.6	1128.9	1125.6
55°	10019.1	8608.0	4151.4	1542.4	1171.6	1105.9	1145.3	1138.8	1102.7	1089.5	1092.8
57.5°	10265.3	8732.7	4279.4	1463.7	1030.5	991.1	1056.7	1037.0	1010.8	1014.1	1014.1
60°	10504.8	8893.5	4430.3	1283.2	909.0	912.3	974.7	938.6	922.2	951.7	955.0
62.5°	10754.2	9067.4	4305.6	1020.6	804.0	827.0	899.2	869.7	876.2	918.9	932.0
65°	10724.7	9051.0	3508.2	836.8	712.1	758.1	866.4	856.5	859.8	876.2	882.8
67.5°	10120.9	8473.4	2412.1	712.1	646.5	702.3	840.1	800.7	804.0	794.2	797.5
68°	9917.4	8270.0	2126.6	692.4	633.4	689.2	827.0	790.9	794.2	784.3	781.1
70°	8808.2	7082.0	1345.5	610.4	587.4	653.1	761.4	748.2	745.0	738.4	738.4
72.5°	6714.4	5227.8	708.9	528.4	534.9	597.3	679.3	705.6	689.2	692.4	712.1
75°	4446.8	3143.9	492.3	452.9	469.3	512.0	603.8	656.3	639.9	649.8	639.9
77.5°	2353.0	1693.4	393.8	384.0	384.0	413.5	498.8	580.9	580.9	574.3	564.5
80°	771.2	597.3	315.0	301.9	308.5	324.9	400.4	475.9	485.7	472.6	466.0
82.5°	259.3	275.7	236.3	219.9	226.4	239.6	301.9	364.3	367.6	341.3	334.7
85°	160.8	183.8	147.7	144.4	144.4	147.7	183.8	200.2	183.8	164.1	170.7
87.5°	75.5	91.9	68.9	59.1	49.2	42.7	32.8	13.1	13.1	6.6	6.6
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)