

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: P1211083

Luminaire Tested: **ARCH4-160-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211083
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: ARCH4-160-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26419 lumens
Efficiency: N/A
Efficacy: 164.4 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): 160.7
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



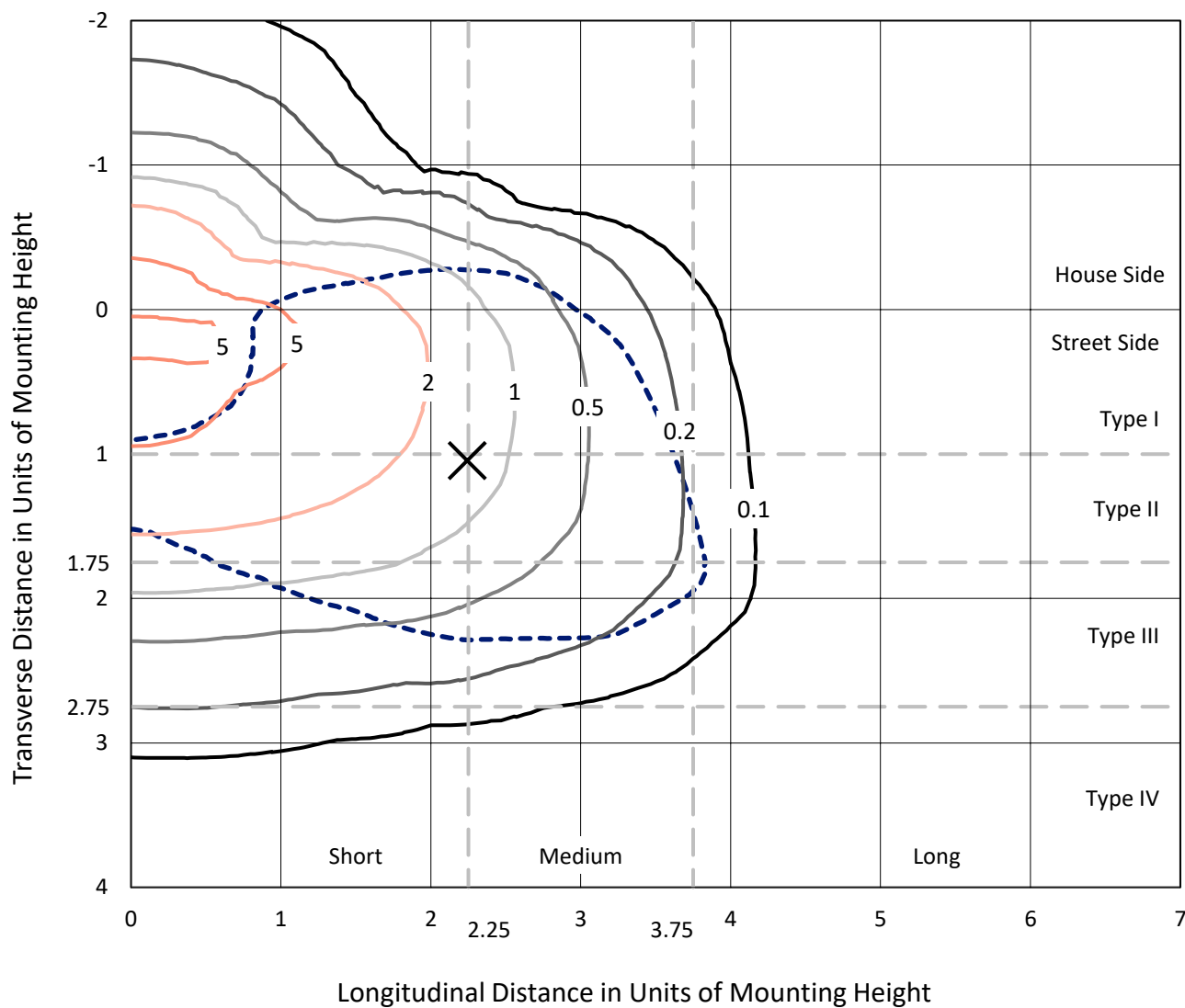
REPORT NUMBER: P1211083

CATALOG NUMBER: ARCH4-160-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

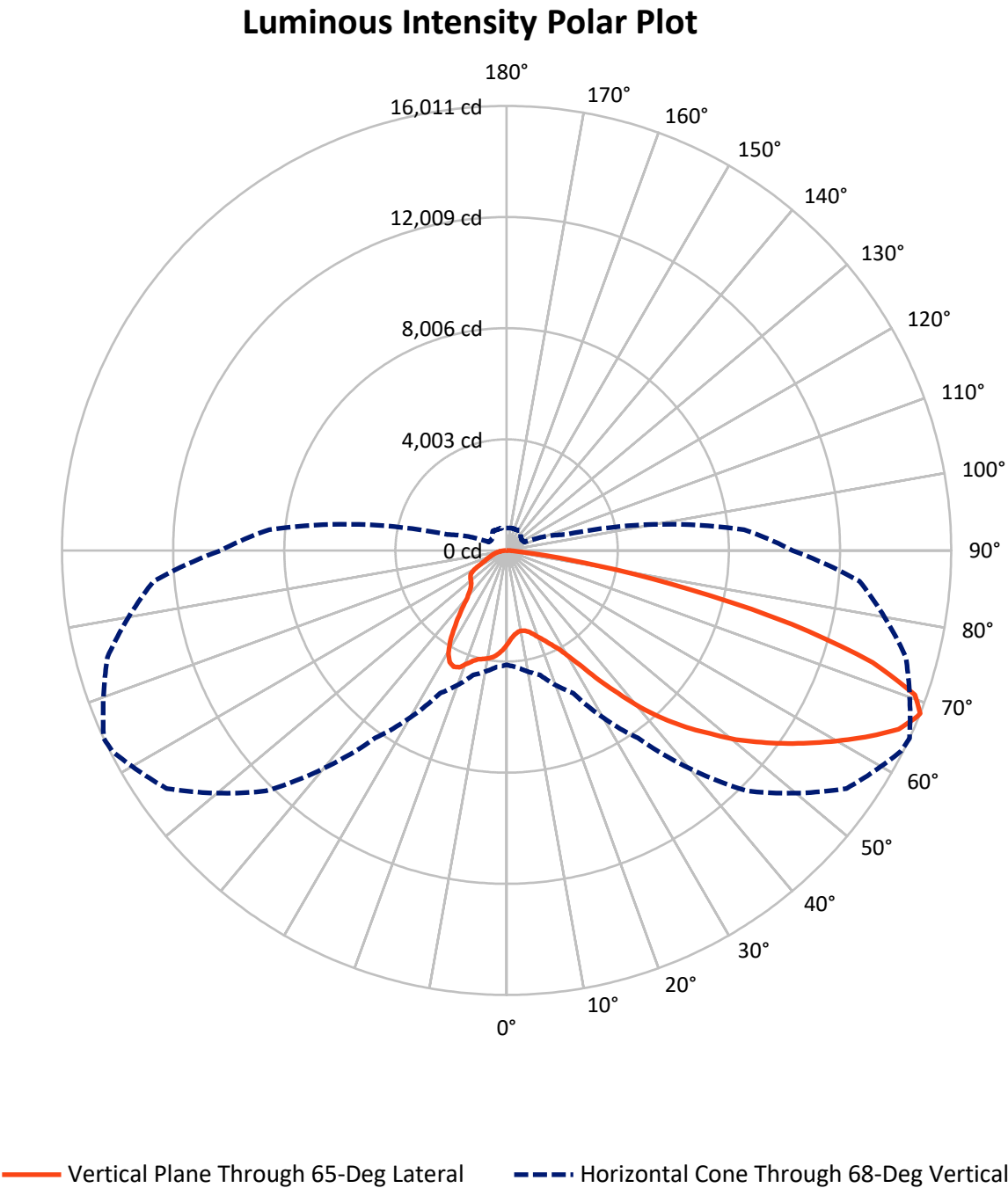
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1211083
CATALOG NUMBER: ARCH4-160-750-U-T3RE



REPORT NUMBER: P1211083

CATALOG NUMBER: ARCH4-160-750-U-T3RE

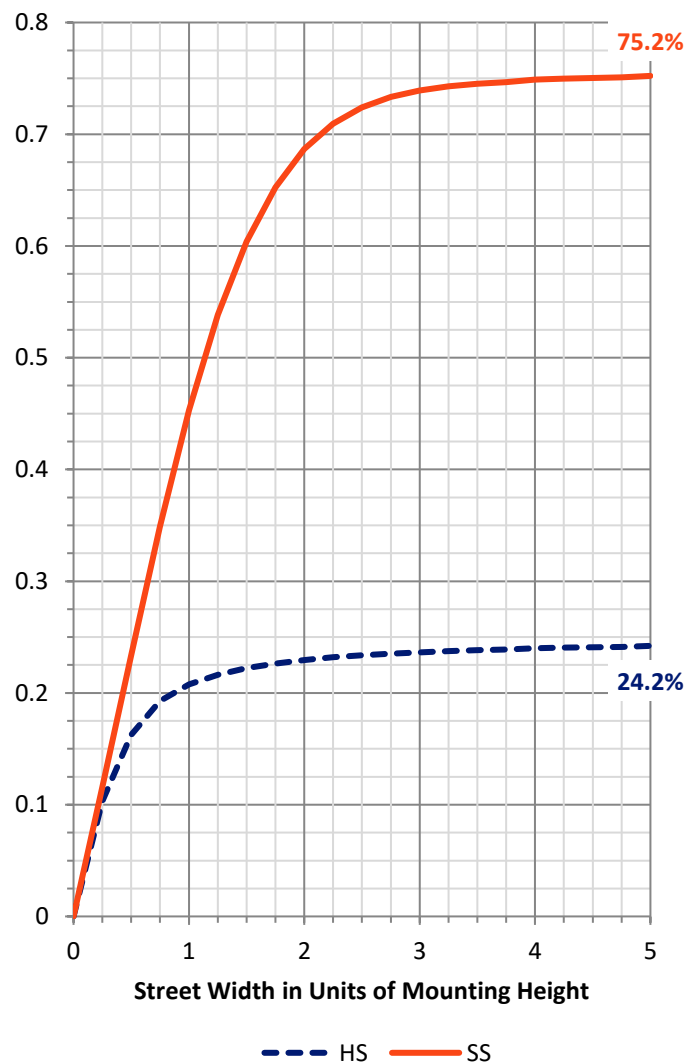
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6477.2	0.0	6477.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	19941.8	0.0	19941.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	26419.0	0.0	26419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.7	1.2
10°-20°	1050.5	4.0
20°-30°	1901.4	7.2
30°-40°	2991.1	11.3
40°-50°	4454.9	16.9
50°-60°	5843.9	22.1
60°-70°	6390.7	24.2
70°-80°	3162.3	12.0
80°-90°	301.6	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°	26419.0	100.0
0°-180°	26419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211083

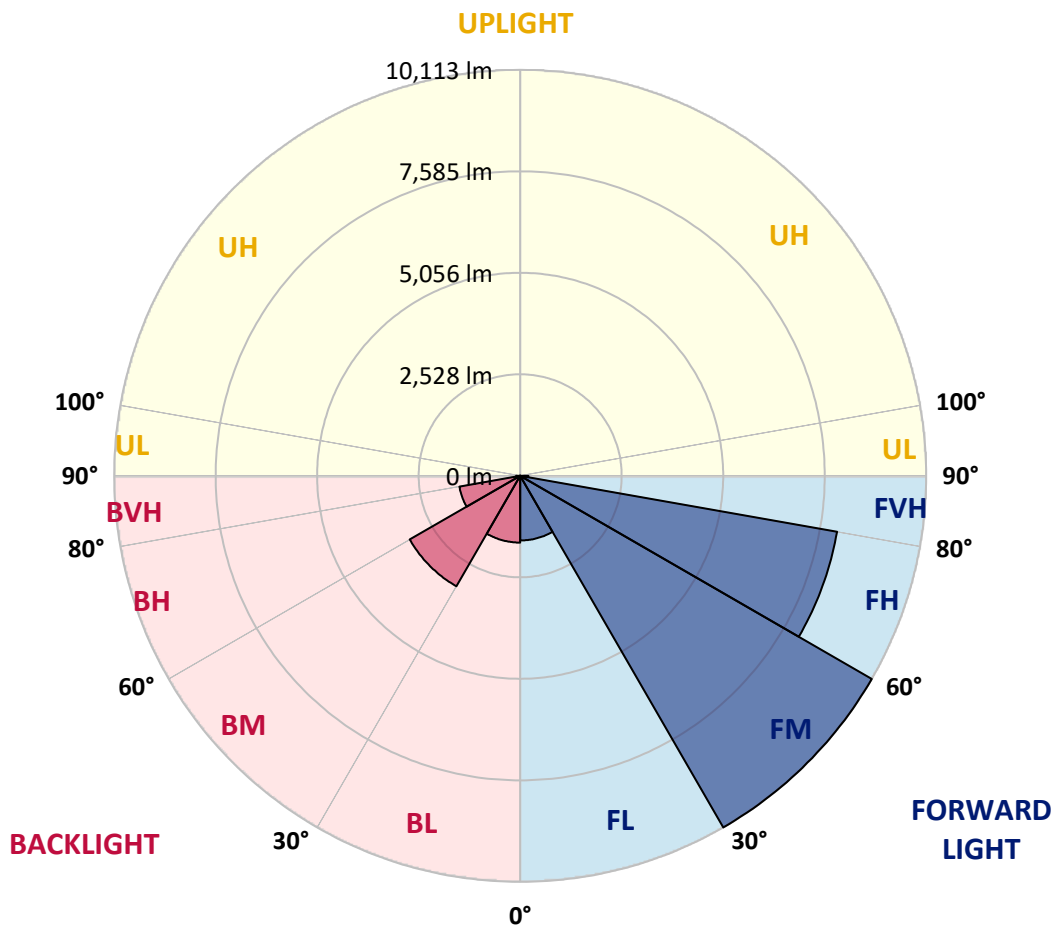
CATALOG NUMBER: ARCH4-160-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.5	6.1			
FM	(30°-60°)	10112.8	38.3			
FH	(60°-80°)	8015.6	30.3			G4/12000
FVH	(80°-90°)	202.9	0.8			G2/225
BL	(0°-30°)	1664.0	6.3	B3/2500		
BM	(30°-60°)	3177.0	12.0	B3/5000		
BH	(60°-80°)	1537.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	98.8	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: P1211083

CATALOG NUMBER: ARCH4-160-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0
2.5°	2946.8	2940.0	2957.0	2974.0	3011.5	3055.8	3117.1	3168.2	3175.0	3270.4	3345.4
5°	2773.0	2762.8	2779.9	2800.3	2817.3	2871.8	2936.6	3011.5	3042.2	3181.8	3342.0
7.5°	2790.1	2786.7	2793.5	2786.7	2786.7	2810.5	2854.8	2929.8	2963.8	3130.7	3359.0
10°	2888.9	2895.7	2899.1	2878.7	2858.2	2848.0	2861.6	2912.7	2936.6	3134.2	3433.9
12.5°	3052.4	3062.6	3066.0	3028.5	3001.3	2957.0	2933.2	2953.6	2970.6	3168.2	3539.5
15°	3273.8	3280.6	3256.8	3232.9	3164.8	3110.3	3052.4	3035.4	3042.2	3239.8	3658.8
17.5°	3532.7	3522.5	3522.5	3464.6	3376.0	3290.9	3195.5	3181.8	3181.8	3355.6	3829.1
20°	3815.5	3825.7	3795.0	3716.7	3628.1	3495.3	3399.9	3338.6	3345.4	3488.4	4036.9
22.5°	4224.3	4241.3	4159.6	4047.1	3910.9	3757.6	3621.3	3522.5	3525.9	3662.2	4251.5
25°	4663.8	4670.6	4619.5	4469.6	4285.6	4067.6	3887.0	3761.0	3757.6	3856.4	4527.5
27.5°	5113.4	5144.1	5041.9	4898.8	4728.5	4455.9	4217.5	4047.1	4019.9	4152.8	4871.6
30°	5576.7	5614.2	5515.4	5375.8	5164.5	4932.9	4650.1	4452.5	4435.5	4612.7	5331.5
32.5°	6043.5	6053.7	5975.3	5859.5	5668.7	5450.7	5222.5	5004.4	4987.4	5277.0	5927.6
35°	6425.0	6455.7	6401.2	6373.9	6234.2	6033.2	5811.8	5685.8	5730.0	6101.4	6701.0
37.5°	6884.9	6915.6	6854.3	6847.4	6803.2	6629.4	6476.1	6486.3	6530.6	7034.8	7515.2
40°	7549.2	7583.3	7426.6	7358.4	7358.4	7188.1	7137.0	7378.9	7436.8	7954.6	8363.4
42.5°	8111.3	8165.8	8073.8	8029.6	7896.7	7777.5	7838.8	8179.5	8278.2	8833.5	9102.7
45°	8383.9	8424.7	8533.8	8663.2	8533.8	8325.9	8557.6	8942.6	9082.2	9644.3	9841.9
47.5°	8530.3	8567.8	8693.9	9041.3	9129.9	8956.2	9283.2	9763.6	9859.0	10448.3	10547.1
50°	8550.8	8670.0	8833.5	9181.0	9586.4	9610.3	10012.3	10598.2	10710.6	11238.7	11167.1
52.5°	8383.9	8431.6	8768.8	9354.8	9804.4	10213.2	10806.0	11398.8	11480.5	11981.3	11715.6
55°	8111.3	8179.5	8516.7	9313.9	10015.7	10785.6	11613.4	12185.7	12277.7	12703.5	12223.2
57.5°	7866.0	7900.1	8261.2	9194.6	10226.9	11357.9	12332.2	13006.7	13068.1	13337.2	12597.9
60°	7593.5	7631.0	7992.1	8939.1	10383.6	11790.5	13081.7	13834.6	13889.1	14004.9	13034.0
62.5°	6888.3	6987.1	7440.2	8516.7	10342.7	12284.5	13882.3	14652.2	14720.3	14594.2	13378.1
65°	5593.8	5733.5	6288.7	7559.4	9961.2	12604.7	14536.3	15405.0	15520.9	15037.1	13470.0
67.5°	4343.5	4442.3	4888.6	5999.2	8622.3	12444.6	14958.8	15922.9	15956.9	14965.6	12959.0
68°	4118.7	4217.5	4643.3	5672.1	8251.0	12253.9	14948.5	15936.5	16011.4	14887.2	12761.5
70°	3151.2	3263.6	3669.0	4493.4	6649.9	11041.1	14325.1	15609.4	15599.2	13940.2	11535.0
72.5°	1969.1	2033.8	2313.1	2834.4	4398.0	8400.9	12158.5	13766.4	13793.7	11364.7	8847.2
75°	1250.3	1250.3	1236.6	1372.9	2255.2	4786.4	9037.9	10598.2	10618.6	7958.0	5576.7
77.5°	1086.7	1056.1	909.6	769.9	899.4	1860.1	5348.5	6844.0	6731.6	4285.6	2647.0
80°	916.4	865.3	746.1	620.0	579.1	582.5	2054.2	3474.8	3324.9	1543.2	878.9
82.5°	660.9	616.6	562.1	487.2	446.3	347.5	429.2	1005.0	981.1	446.3	286.2
85°	357.7	323.6	316.8	320.2	269.1	214.6	180.6	221.4	221.4	194.2	163.5
87.5°	126.0	92.0	109.0	122.6	105.6	88.6	71.5	85.2	88.6	85.2	78.4
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: P1211083

CATALOG NUMBER: ARCH4-160-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0	3376.0
2.5°	3389.7	3423.7	3505.5	3577.0	3628.1	3672.4	3696.3	3706.5	3730.3	3733.7	3726.9
5°	3416.9	3505.5	3628.1	3733.7	3791.6	3815.5	3822.3	3825.7	3815.5	3822.3	3815.5
7.5°	3488.4	3600.9	3774.6	3866.6	3876.8	3839.3	3842.7	3829.1	3842.7	3856.4	3856.4
10°	3597.5	3740.5	3904.1	3938.1	3893.8	3873.4	3914.3	3996.0	4023.3	4060.8	4060.8
12.5°	3740.5	3910.9	4026.7	3996.0	3955.2	4023.3	4142.5	4224.3	4251.5	4265.2	4255.0
15°	3904.1	4088.0	4145.9	4043.7	4118.7	4265.2	4306.1	4258.4	4190.2	4159.6	4176.6
17.5°	4111.9	4265.2	4231.1	4163.0	4333.3	4353.7	4220.9	4067.6	3958.6	3917.7	3944.9
20°	4329.9	4462.8	4306.1	4336.7	4442.3	4224.3	3972.2	3774.6	3679.2	3662.2	3689.4
22.5°	4561.6	4646.7	4381.0	4537.7	4381.0	3938.1	3634.9	3532.7	3508.9	3536.1	3560.0
25°	4823.9	4813.6	4510.5	4599.0	4152.8	3587.2	3406.7	3399.9	3399.9	3416.9	3451.0
27.5°	5120.3	4960.1	4639.9	4517.3	3757.6	3297.7	3263.6	3267.0	3256.8	3260.2	3277.2
30°	5464.3	5157.7	4783.0	4248.1	3314.7	3079.6	3066.0	3055.8	3032.0	3025.1	3032.0
32.5°	5897.0	5365.5	4929.5	3805.3	2926.3	2854.8	2848.0	2793.5	2735.6	2728.8	2752.6
35°	6445.5	5743.7	5004.4	3250.0	2606.1	2602.7	2578.9	2493.7	2418.7	2418.7	2401.7
37.5°	7072.3	6230.8	5035.1	2708.3	2340.4	2357.4	2289.3	2180.3	2122.4	2088.3	2098.5
40°	7712.7	6786.1	5031.7	2234.8	2108.7	2112.1	2061.0	1928.2	1785.1	1699.9	1720.4
42.5°	8329.4	7290.3	4943.1	1982.7	1921.4	1911.2	1870.3	1689.7	1570.5	1502.3	1505.8
45°	8823.3	7811.5	4806.8	1832.8	1751.0	1768.1	1676.1	1567.1	1458.1	1396.7	1393.3
47.5°	9317.3	8206.7	4588.8	1740.8	1625.0	1594.3	1556.9	1481.9	1400.1	1332.0	1335.4
50°	9767.0	8544.0	4384.4	1679.5	1509.2	1430.8	1437.6	1393.3	1321.8	1260.5	1257.1
52.5°	10083.8	8765.4	4272.0	1645.4	1369.5	1284.3	1308.2	1284.3	1216.2	1171.9	1168.5
55°	10400.6	8935.7	4309.5	1601.1	1216.2	1148.1	1188.9	1182.1	1144.6	1131.0	1134.4
57.5°	10656.1	9065.2	4442.3	1519.4	1069.7	1028.8	1097.0	1076.5	1049.3	1052.7	1052.7
60°	10904.8	9232.1	4599.0	1332.0	943.7	947.1	1011.8	974.3	957.3	987.9	991.3
62.5°	11163.7	9412.7	4469.6	1059.5	834.6	858.5	933.4	902.8	909.6	953.9	967.5
65°	11133.1	9395.6	3641.7	868.7	739.3	786.9	899.4	889.1	892.6	909.6	916.4
67.5°	10506.2	8796.1	2503.9	739.3	671.1	729.0	872.1	831.2	834.6	824.4	827.8
68°	10295.0	8584.9	2207.5	718.8	657.5	715.4	858.5	821.0	824.4	814.2	810.8
70°	9143.5	7351.6	1396.7	633.6	609.8	677.9	790.4	776.7	773.3	766.5	766.5
72.5°	6970.1	5426.9	735.8	548.5	555.3	620.0	705.2	732.4	715.4	718.8	739.3
75°	4616.1	3263.6	511.0	470.1	487.2	531.4	626.8	681.3	664.3	674.5	664.3
77.5°	2442.6	1757.9	408.8	398.6	398.6	429.2	517.8	603.0	603.0	596.2	586.0
80°	800.6	620.0	327.0	313.4	320.2	337.3	415.6	494.0	504.2	490.6	483.7
82.5°	269.1	286.2	245.3	228.2	235.1	248.7	313.4	378.1	381.5	354.3	347.5
85°	166.9	190.8	153.3	149.9	149.9	153.3	190.8	207.8	190.8	170.3	177.1
87.5°	78.4	95.4	71.5	61.3	51.1	44.3	34.1	13.6	13.6	6.8	6.8
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)