

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: P1211067

Luminaire Tested: **ARCH4-160-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211067
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: ARCH4-160-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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



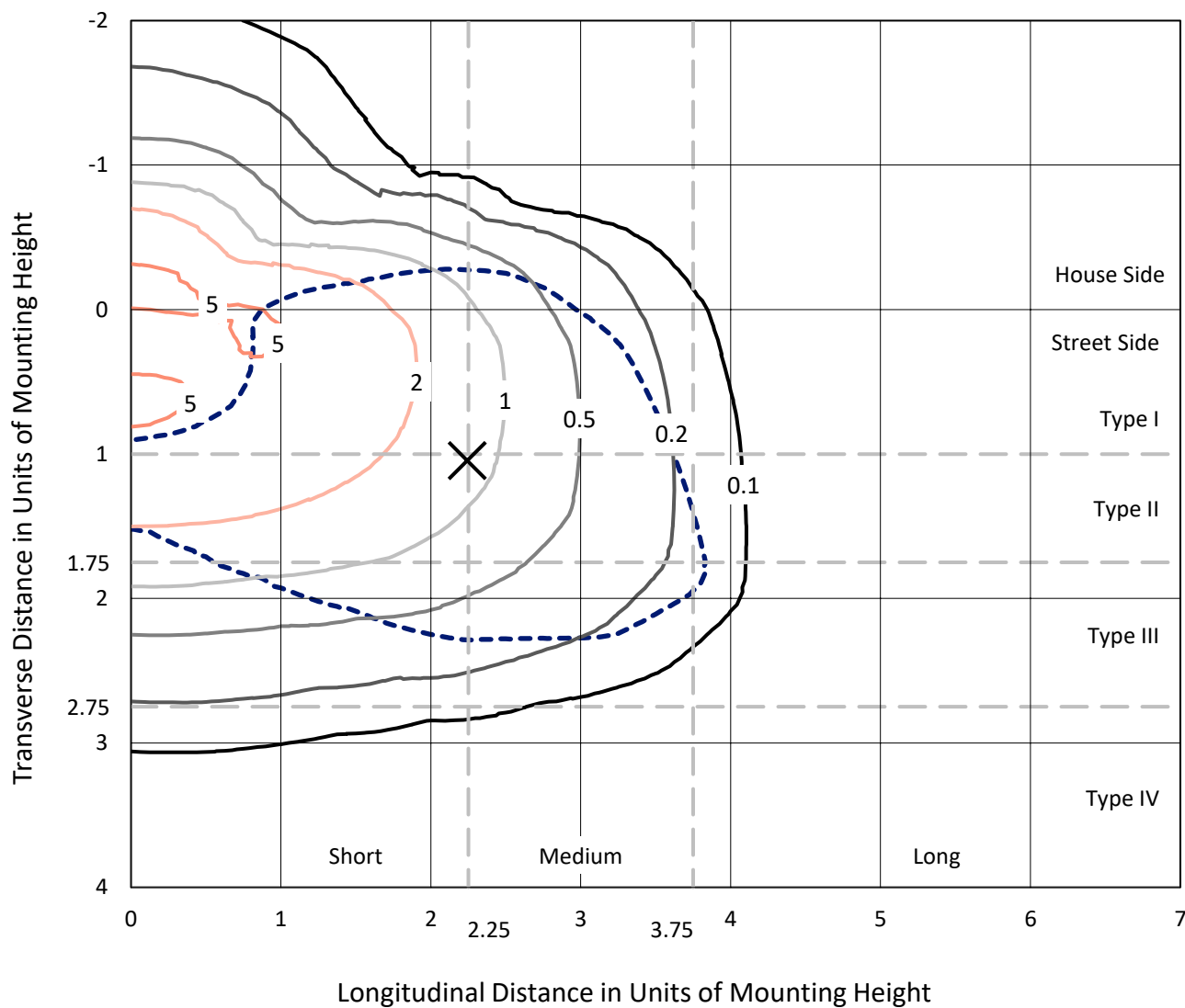
REPORT NUMBER: P1211067

CATALOG NUMBER: ARCH4-160-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

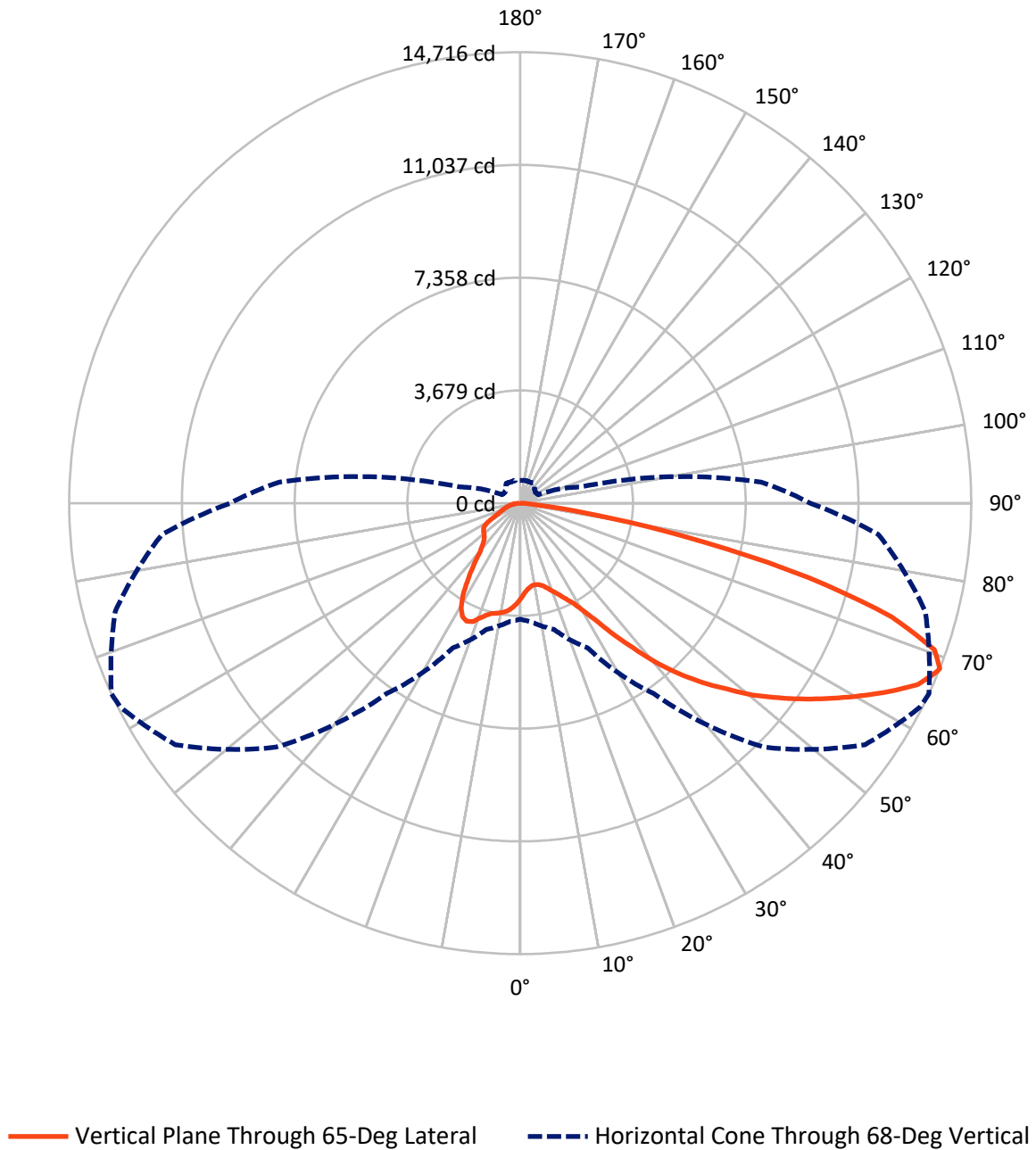


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

REPORT NUMBER: P1211067

CATALOG NUMBER: ARCH4-160-727-U-T3RE

Luminous Intensity Polar Plot



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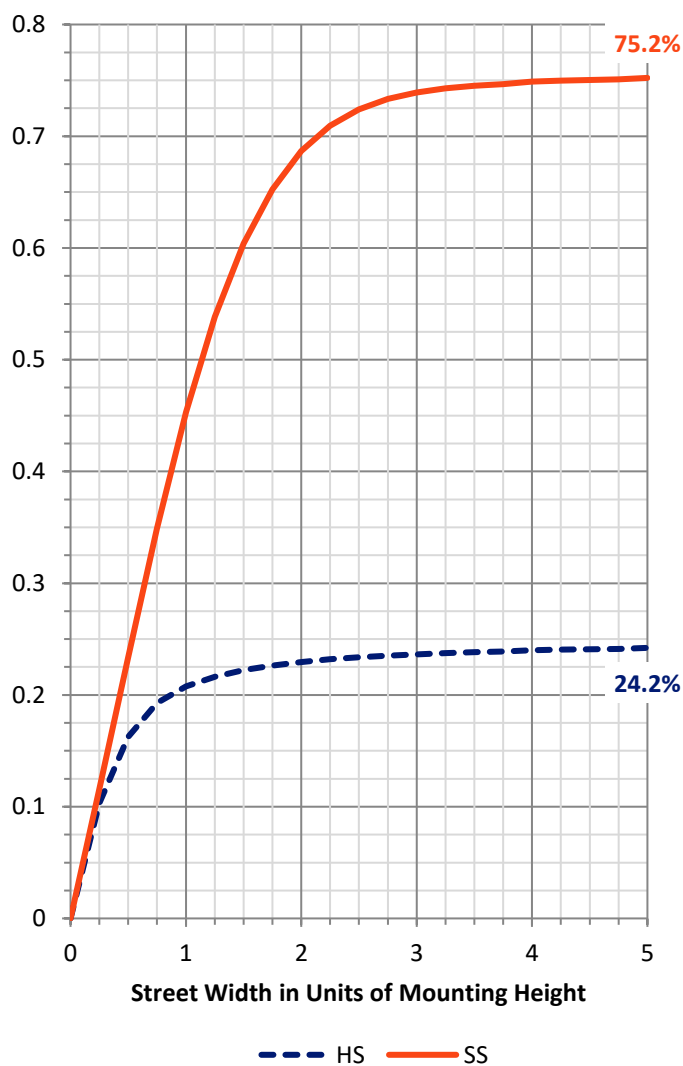
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5953.0	0.0	5953.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18328.0	0.0	18328.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	24281.0	0.0	24281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	1.2
10°-20°	965.5	4.0
20°-30°	1747.5	7.2
30°-40°	2749.0	11.3
40°-50°	4094.4	16.9
50°-60°	5371.0	22.1
60°-70°	5873.5	24.2
70°-80°	2906.4	12.0
80°-90°	277.2	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°	24281.0	100.0
0°-180°	24281.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211067

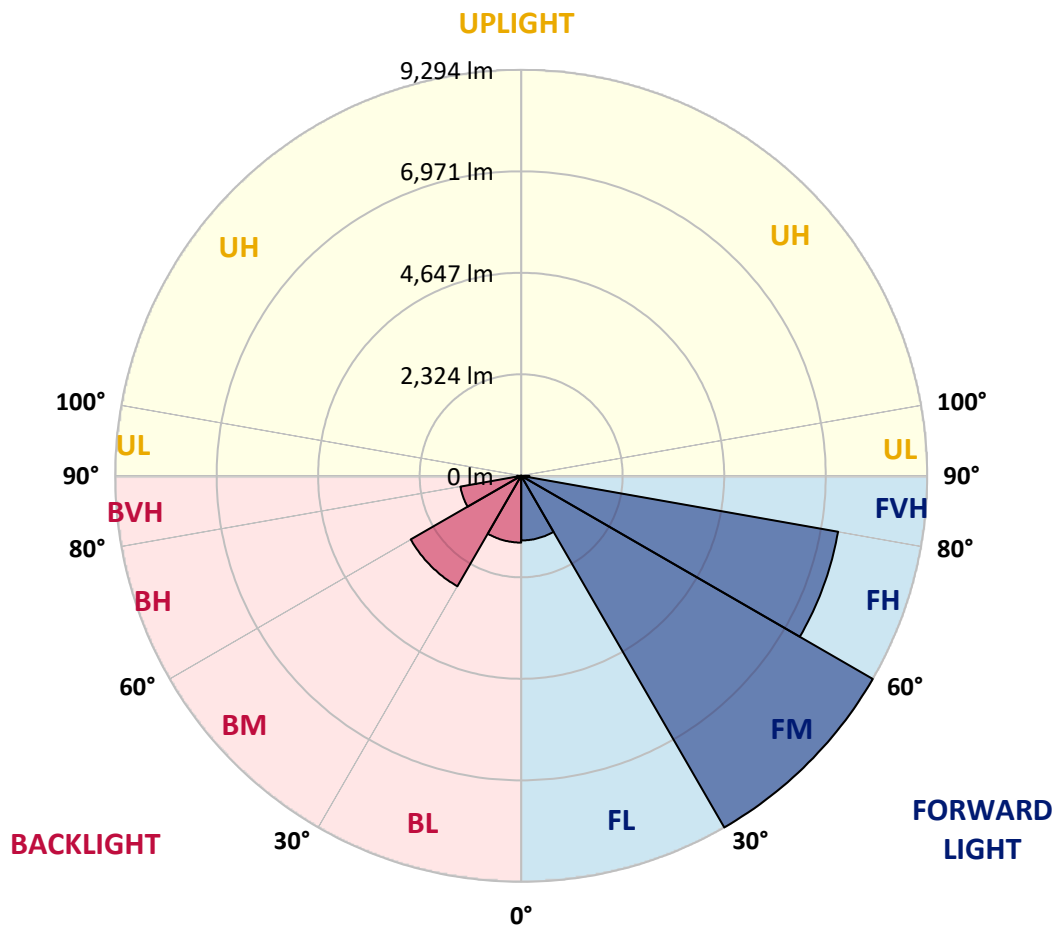
CATALOG NUMBER: ARCH4-160-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.2	6.1			
FM	(30°-60°)	9294.4	38.3			
FH	(60°-80°)	7366.9	30.3			G3/7500
FVH	(80°-90°)	186.5	0.8			G2/225
BL	(0°-30°)	1529.4	6.3	B3/2500		
BM	(30°-60°)	2919.9	12.0	B3/5000		
BH	(60°-80°)	1412.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	90.8	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-G3

Type III Short



REPORT NUMBER: P1211067

CATALOG NUMBER: ARCH4-160-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8
2.5°	2708.3	2702.0	2717.7	2733.4	2767.8	2808.5	2864.9	2911.8	2918.1	3005.8	3074.6
5°	2548.6	2539.2	2554.9	2573.7	2589.3	2639.4	2698.9	2767.8	2796.0	2924.3	3071.5
7.5°	2564.3	2561.2	2567.4	2561.2	2561.2	2583.1	2623.8	2692.7	2724.0	2877.4	3087.2
10°	2655.1	2661.3	2664.5	2645.7	2626.9	2617.5	2630.0	2677.0	2698.9	2880.5	3156.0
12.5°	2805.4	2814.8	2817.9	2783.5	2758.4	2717.7	2695.8	2714.6	2730.2	2911.8	3253.1
15°	3008.9	3015.1	2993.2	2971.3	2908.7	2858.6	2805.4	2789.7	2796.0	2977.6	3362.7
17.5°	3246.8	3237.4	3237.4	3184.2	3102.8	3024.5	2936.9	2924.3	2924.3	3084.0	3519.2
20°	3506.7	3516.1	3487.9	3415.9	3334.5	3212.4	3124.7	3068.4	3074.6	3206.1	3710.2
22.5°	3882.4	3898.1	3822.9	3719.6	3594.4	3453.5	3328.2	3237.4	3240.6	3365.8	3907.5
25°	4286.3	4292.6	4245.6	4107.9	3938.8	3738.4	3572.5	3456.6	3453.5	3544.3	4161.1
27.5°	4699.6	4727.8	4633.9	4502.4	4345.8	4095.3	3876.2	3719.6	3694.6	3816.7	4477.3
30°	5125.4	5159.9	5069.1	4940.7	4746.6	4533.7	4273.8	4092.2	4076.6	4239.4	4900.0
32.5°	5554.4	5563.8	5491.8	5385.3	5210.0	5009.6	4799.8	4599.4	4583.8	4849.9	5447.9
35°	5905.1	5933.2	5883.1	5858.1	5729.7	5545.0	5341.5	5225.6	5266.3	5607.6	6158.7
37.5°	6327.7	6355.9	6299.6	6293.3	6252.6	6092.9	5952.0	5961.4	6002.1	6465.5	6907.0
40°	6938.3	6969.6	6825.6	6763.0	6763.0	6606.4	6559.4	6781.7	6835.0	7310.9	7686.6
42.5°	7454.9	7505.0	7420.5	7379.8	7257.6	7148.1	7204.4	7517.5	7608.3	8118.7	8366.0
45°	7705.4	7743.0	7843.1	7962.1	7843.1	7652.2	7865.1	8218.9	8347.2	8863.8	9045.4
47.5°	7840.0	7874.5	7990.3	8309.7	8391.1	8231.4	8532.0	8973.4	9061.1	9602.8	9693.6
50°	7858.8	7968.4	8118.7	8438.0	8810.6	8832.5	9202.0	9740.5	9843.8	10329.2	10263.4
52.5°	7705.4	7749.2	8059.2	8597.7	9011.0	9386.7	9931.5	10476.3	10551.5	11011.7	10767.5
55°	7454.9	7517.5	7827.5	8560.1	9205.1	9912.7	10673.6	11199.6	11284.1	11675.5	11234.0
57.5°	7229.5	7260.8	7592.7	8450.6	9399.2	10438.7	11334.2	11954.1	12010.5	12257.8	11578.4
60°	6979.0	7013.4	7345.3	8215.7	9543.3	10836.4	12023.0	12715.0	12765.1	12871.5	11979.2
62.5°	6330.9	6421.7	6838.1	7827.5	9505.7	11290.4	12758.8	13466.4	13529.0	13413.2	12295.4
65°	5141.1	5269.5	5779.8	6947.7	9155.0	11584.7	13360.0	14158.4	14264.8	13820.2	12380.0
67.5°	3992.0	4082.8	4493.0	5513.7	7924.5	11437.5	13748.2	14634.3	14665.6	13754.5	11910.3
68°	3785.4	3876.2	4267.5	5213.1	7583.3	11262.2	13738.8	14646.8	14715.7	13682.5	11728.7
70°	2896.2	2999.5	3372.1	4129.8	6111.7	10147.6	13165.8	14346.2	14336.8	12812.0	10601.6
72.5°	1809.7	1869.2	2125.9	2605.0	4042.1	7721.0	11174.5	12652.4	12677.4	10445.0	8131.2
75°	1149.1	1149.1	1136.6	1261.8	2072.7	4399.0	8306.5	9740.5	9759.3	7314.0	5125.4
77.5°	998.8	970.6	836.0	707.6	826.6	1709.5	4915.7	6290.2	6186.8	3938.8	2432.8
80°	842.2	795.3	685.7	569.8	532.3	535.4	1888.0	3193.6	3055.9	1418.3	807.8
82.5°	607.4	566.7	516.6	447.7	410.2	319.4	394.5	923.6	901.7	410.2	263.0
85°	328.8	297.4	291.2	294.3	247.3	197.3	165.9	203.5	203.5	178.5	150.3
87.5°	115.8	84.5	100.2	112.7	97.1	81.4	65.8	78.3	81.4	78.3	72.0
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: P1211067

CATALOG NUMBER: ARCH4-160-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8	3102.8
2.5°	3115.3	3146.7	3221.8	3287.5	3334.5	3375.2	3397.1	3406.5	3428.4	3431.6	3425.3
5°	3140.4	3221.8	3334.5	3431.6	3484.8	3506.7	3513.0	3516.1	3506.7	3513.0	3506.7
7.5°	3206.1	3309.5	3469.1	3553.7	3563.1	3528.6	3531.8	3519.2	3531.8	3544.3	3544.3
10°	3306.3	3437.8	3588.1	3619.4	3578.7	3559.9	3597.5	3672.7	3697.7	3732.1	3732.1
12.5°	3437.8	3594.4	3700.8	3672.7	3635.1	3697.7	3807.3	3882.4	3907.5	3920.0	3910.6
15°	3588.1	3757.2	3810.4	3716.5	3785.4	3920.0	3957.6	3913.7	3851.1	3822.9	3838.6
17.5°	3779.1	3920.0	3888.7	3826.1	3982.6	4001.4	3879.3	3738.4	3638.2	3600.6	3625.7
20°	3979.5	4101.6	3957.6	3985.8	4082.8	3882.4	3650.7	3469.1	3381.5	3365.8	3390.9
22.5°	4192.4	4270.7	4026.5	4170.5	4026.5	3619.4	3340.8	3246.8	3224.9	3250.0	3271.9
25°	4433.5	4424.1	4145.4	4226.8	3816.7	3296.9	3131.0	3124.7	3124.7	3140.4	3171.7
27.5°	4705.9	4558.7	4264.4	4151.7	3453.5	3030.8	2999.5	3002.6	2993.2	2996.4	3012.0
30°	5022.1	4740.3	4395.9	3904.4	3046.5	2830.4	2817.9	2808.5	2786.6	2780.3	2786.6
32.5°	5419.8	4931.3	4530.6	3497.3	2689.5	2623.8	2617.5	2567.4	2514.2	2507.9	2529.8
35°	5923.8	5278.9	4599.4	2987.0	2395.2	2392.1	2370.2	2291.9	2223.0	2223.0	2207.4
37.5°	6499.9	5726.6	4627.6	2489.1	2151.0	2166.6	2104.0	2003.8	1950.6	1919.3	1928.7
40°	7088.6	6236.9	4624.5	2053.9	1938.1	1941.2	1894.3	1772.1	1640.6	1562.4	1581.2
42.5°	7655.3	6700.3	4543.1	1822.2	1765.9	1756.5	1718.9	1553.0	1443.4	1380.8	1383.9
45°	8109.3	7179.4	4417.8	1684.5	1609.3	1625.0	1540.4	1440.3	1340.1	1283.7	1280.6
47.5°	8563.3	7542.6	4217.5	1599.9	1493.5	1465.3	1430.9	1362.0	1286.8	1224.2	1227.4
50°	8976.6	7852.5	4029.6	1543.6	1387.0	1315.0	1321.3	1280.6	1214.8	1158.5	1155.3
52.5°	9267.7	8056.1	3926.3	1512.3	1258.7	1180.4	1202.3	1180.4	1117.8	1077.1	1073.9
55°	9558.9	8212.6	3960.7	1471.6	1117.8	1055.1	1092.7	1086.5	1052.0	1039.5	1042.6
57.5°	9793.8	8331.6	4082.8	1396.4	983.1	945.6	1008.2	989.4	964.3	967.5	967.5
60°	10022.3	8485.0	4226.8	1224.2	867.3	870.4	929.9	895.5	879.8	908.0	911.1
62.5°	10260.3	8650.9	4107.9	973.7	767.1	789.0	857.9	829.7	836.0	876.7	889.2
65°	10232.1	8635.3	3347.0	798.4	679.4	723.3	826.6	817.2	820.3	836.0	842.2
67.5°	9656.0	8084.2	2301.3	679.4	616.8	670.0	801.5	764.0	767.1	757.7	760.8
68°	9461.9	7890.1	2028.9	660.6	604.3	657.5	789.0	754.6	757.7	748.3	745.2
70°	8403.6	6756.7	1283.7	582.4	560.4	623.1	726.4	713.9	710.7	704.5	704.5
72.5°	6406.0	4987.7	676.3	504.1	510.4	569.8	648.1	673.2	657.5	660.6	679.4
75°	4242.5	2999.5	469.6	432.1	447.7	488.4	576.1	626.2	610.5	619.9	610.5
77.5°	2244.9	1615.6	375.7	366.3	366.3	394.5	475.9	554.2	554.2	547.9	538.5
80°	735.8	569.8	300.6	288.1	294.3	310.0	382.0	454.0	463.4	450.9	444.6
82.5°	247.3	263.0	225.4	209.8	216.0	228.6	288.1	347.5	350.7	325.6	319.4
85°	153.4	175.3	140.9	137.8	137.8	140.9	175.3	191.0	175.3	156.5	162.8
87.5°	72.0	87.7	65.8	56.4	47.0	40.7	31.3	12.5	12.5	6.3	6.3
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)