

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: P1211000

Luminaire Tested: **ARCH4-140-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15653 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

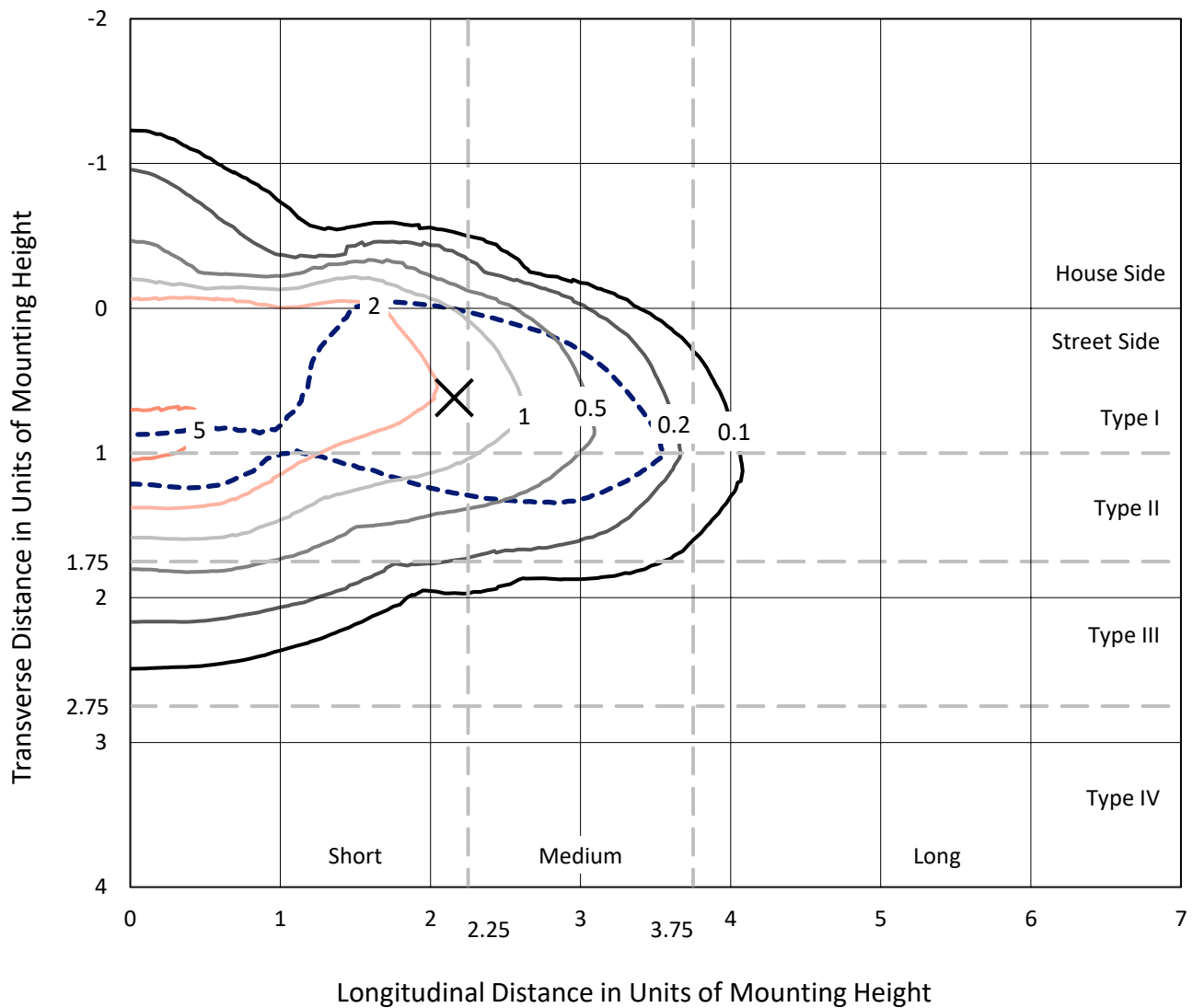
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211000
CATALOG NUMBER: ARCH4-140-727-U-T2RE-HSS

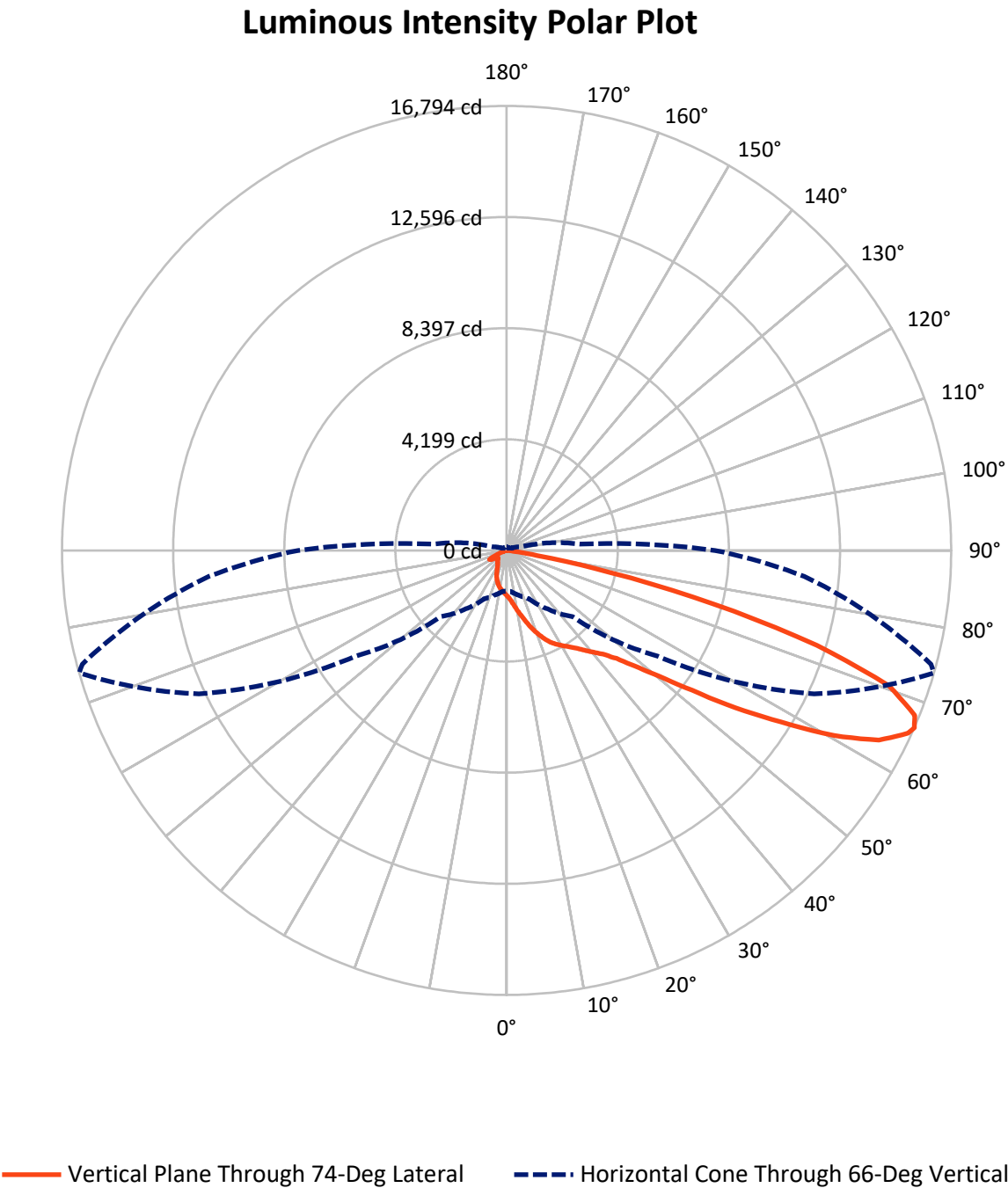
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Short - N/A

REPORT NUMBER: P1211000
CATALOG NUMBER: ARCH4-140-727-U-T2RE-HSS



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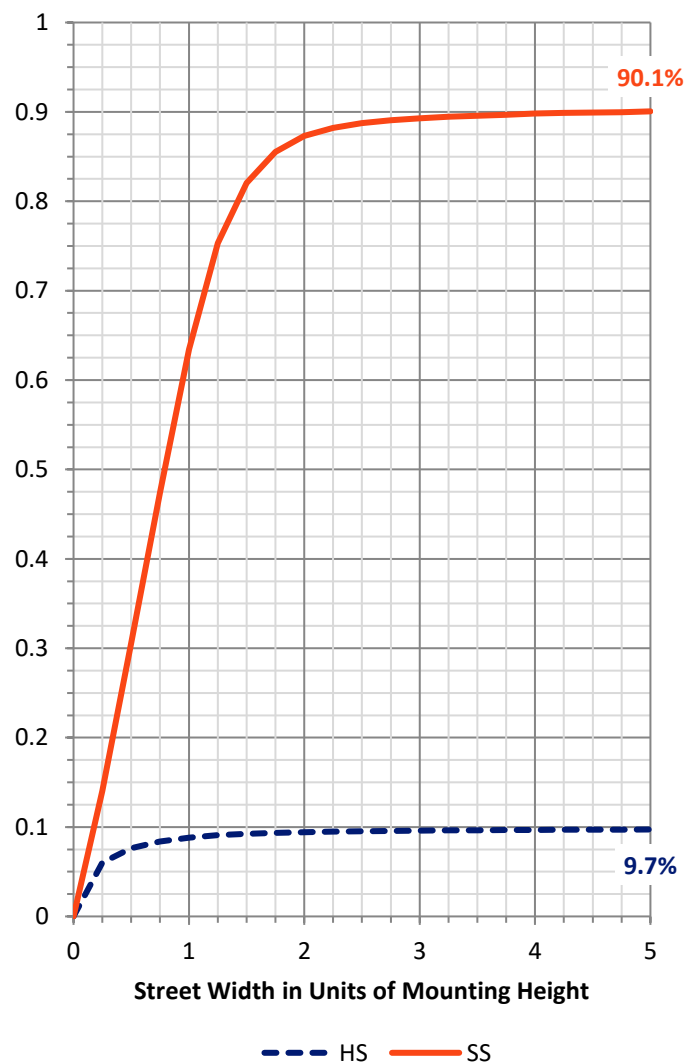
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1534.5	0.0	1534.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14118.5	0.0	14118.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	15653.0	0.0	15653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.1
10°-20°	534.7	3.4
20°-30°	1020.4	6.5
30°-40°	1788.4	11.4
40°-50°	3066.7	19.6
50°-60°	3988.5	25.5
60°-70°	3610.6	23.1
70°-80°	1393.2	8.9
80°-90°	83.8	0.5
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°	15653.0	100.0
0°-180°	15653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211000

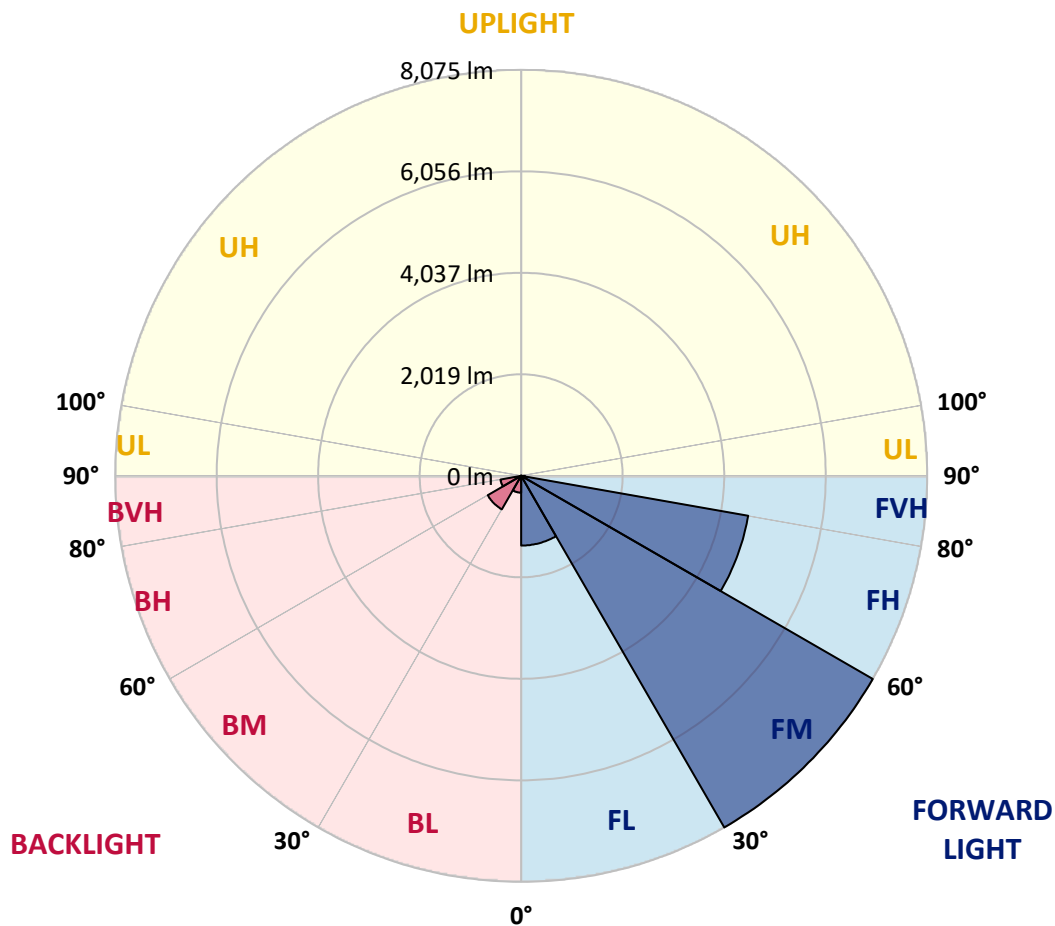
CATALOG NUMBER: ARCH4-140-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.1	8.9			
FM	(30°-60°)	8074.6	51.6			
FH	(60°-80°)	4584.2	29.3			G2/5000
FVH	(80°-90°)	72.6	0.5			G1/100
BL	(0°-30°)	334.7	2.1	B1/500		
BM	(30°-60°)	769.0	4.9	B1/1000		
BH	(60°-80°)	419.5	2.7	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P1211000

CATALOG NUMBER: ARCH4-140-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7
2.5°	2051.5	2034.7	2003.7	2000.9	1975.6	1944.7	1891.3	1835.1	1795.8	1790.2	1742.4
5°	2456.2	2447.8	2416.9	2397.2	2349.4	2276.3	2152.7	2029.0	1925.1	1913.8	1807.0
7.5°	2563.0	2568.6	2574.2	2593.9	2577.0	2543.3	2450.6	2276.3	2113.3	2088.1	1902.6
10°	2579.9	2574.2	2574.2	2599.5	2647.3	2695.1	2683.8	2534.9	2324.1	2293.2	2034.7
12.5°	2762.5	2771.0	2751.3	2740.0	2731.6	2756.9	2841.2	2776.6	2546.1	2520.8	2194.8
15°	2998.6	2995.8	2967.7	2967.7	2942.4	2900.2	2953.6	3001.4	2813.1	2782.2	2377.5
17.5°	3170.0	3181.3	3178.4	3195.3	3186.9	3130.7	3102.6	3200.9	3088.5	3049.2	2585.5
20°	3307.7	3338.6	3349.9	3403.3	3428.6	3389.2	3316.1	3378.0	3352.7	3316.1	2796.2
22.5°	3453.9	3479.1	3498.8	3591.6	3661.8	3653.4	3560.6	3546.6	3608.4	3574.7	3004.2
25°	3600.0	3611.2	3670.2	3782.7	3895.1	3923.2	3827.6	3718.0	3838.9	3808.0	3189.7
27.5°	3760.2	3765.8	3836.1	3973.8	4131.1	4190.2	4114.3	3911.9	4015.9	4015.9	3358.3
30°	4052.4	4108.7	4136.8	4260.4	4398.1	4479.6	4389.7	4117.1	4173.3	4198.6	3535.4
32.5°	4682.0	4690.4	4682.0	4735.3	4763.5	4811.2	4707.2	4347.5	4333.5	4361.6	3709.6
35°	5643.1	5609.4	5519.4	5440.7	5277.7	5187.8	5052.9	4642.6	4530.2	4569.5	3881.0
37.5°	6809.3	6761.6	6556.4	6314.7	5966.3	5606.5	5437.9	5002.3	4780.3	4830.9	4066.5
40°	7922.2	7891.3	7646.8	7348.9	6753.1	6137.7	5780.8	5305.8	5058.5	5078.2	4254.8
42.5°	8838.4	8832.8	8627.6	8315.7	7551.3	6711.0	6185.5	5603.7	5350.8	5381.7	4451.5
45°	9532.5	9479.1	9327.4	9102.6	8324.1	7306.8	6674.5	6056.2	5820.1	5856.7	4746.6
47.5°	9532.5	9541.0	9639.3	9616.8	8863.7	7866.0	7208.4	6626.7	6514.3	6548.0	5232.8
50°	8756.9	8835.6	9274.0	9642.1	9144.7	8301.6	7784.5	7340.5	7455.7	7506.3	6081.5
52.5°	7222.5	7354.5	8116.1	8956.4	8936.7	8520.8	8380.3	8248.2	8765.3	8855.2	7334.9
55°	5488.5	5575.6	6567.7	7672.1	8031.8	8341.0	8900.2	9400.4	10499.3	10479.6	8607.9
57.5°	4100.2	4181.7	5036.1	6261.3	6736.3	7562.5	9167.2	10718.5	12219.2	12295.0	9802.3
60°	3015.4	3077.3	3805.1	4811.2	5496.9	6370.9	9060.4	12016.8	14200.4	14113.3	10856.2
62.5°	2231.4	2265.1	2790.6	3445.4	4356.0	5190.6	8388.7	12904.9	15782.6	15605.6	11443.5
65°	1725.5	1736.8	2009.4	2357.8	3167.2	4035.6	7388.3	13039.8	16656.6	16468.3	11432.3
66°	1537.2	1545.7	1745.2	2015.0	2695.1	3532.5	6949.9	12823.4	16794.3	16594.8	11291.8
67.5°	1289.9	1284.3	1402.3	1579.4	2023.4	2726.0	6171.4	12191.1	16631.3	16530.2	10842.1
70°	955.5	958.3	1017.3	1059.5	1183.1	1509.1	4457.1	10575.1	15327.4	15321.7	9608.4
72.5°	708.2	716.6	761.6	770.0	739.1	817.8	2568.6	8411.2	12261.3	12264.1	7183.1
75°	531.1	545.2	559.2	564.9	536.8	517.1	1160.7	5659.9	8065.6	8006.5	4066.5
77.5°	404.7	410.3	421.5	413.1	407.5	356.9	483.4	2759.7	3982.2	3628.1	1318.0
80°	295.1	295.1	306.3	295.1	292.3	255.7	264.2	885.2	1169.1	972.4	283.8
82.5°	185.5	182.7	191.1	188.3	182.7	163.0	154.6	247.3	269.8	241.7	137.7
85°	104.0	101.2	98.4	95.6	87.1	73.1	84.3	92.7	123.7	126.5	98.4
87.5°	36.5	36.5	33.7	30.9	25.3	25.3	30.9	30.9	45.0	45.0	50.6
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: P1211000

CATALOG NUMBER: ARCH4-140-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7
2.5°	1719.9	1689.0	1644.0	1585.0	1542.9	1500.7	1455.7	1430.4	1393.9	1385.5	1396.7
5°	1750.8	1694.6	1582.2	1458.5	1351.8	1256.2	1166.3	1112.9	1059.5	1039.8	1048.2
7.5°	1815.5	1719.9	1528.8	1329.3	1152.2	1008.9	902.1	840.3	792.5	772.8	778.5
10°	1911.0	1764.9	1478.2	1183.1	955.5	803.7	713.8	674.5	646.4	635.1	637.9
12.5°	2026.2	1829.5	1413.6	1037.0	786.9	654.8	612.6	604.2	598.6	593.0	595.8
15°	2155.5	1885.7	1337.7	893.7	654.8	581.7	567.7	564.9	562.1	562.1	562.1
17.5°	2290.4	1936.3	1253.4	758.8	570.5	536.8	528.3	528.3	528.3	531.1	531.1
20°	2416.9	1975.6	1155.0	637.9	522.7	494.6	489.0	489.0	491.8	494.6	494.6
22.5°	2540.5	1992.5	1039.8	553.6	483.4	458.1	449.6	449.6	449.6	452.5	452.5
25°	2647.3	1992.5	924.6	500.2	449.6	424.4	413.1	410.3	413.1	413.1	413.1
27.5°	2737.2	1984.1	812.2	463.7	415.9	390.6	379.4	376.6	382.2	385.0	385.0
30°	2832.8	1972.8	722.2	430.0	387.8	362.5	351.3	351.3	359.7	371.0	371.0
32.5°	2925.5	1981.3	652.0	401.9	359.7	340.0	328.8	331.6	348.5	365.3	365.3
35°	3023.9	1998.1	609.8	382.2	340.0	320.4	311.9	320.4	337.2	354.1	354.1
37.5°	3122.2	2017.8	584.5	365.3	323.2	303.5	297.9	309.1	328.8	345.7	348.5
40°	3226.2	2034.7	556.4	348.5	311.9	289.5	286.7	297.9	323.2	340.0	342.9
42.5°	3355.5	2068.4	522.7	334.4	300.7	272.6	275.4	283.8	309.1	334.4	337.2
45°	3608.4	2175.2	489.0	320.4	286.7	264.2	258.5	264.2	292.3	320.4	326.0
47.5°	4083.4	2416.9	452.5	306.3	272.6	258.5	236.1	241.7	267.0	297.9	300.7
50°	4993.9	2931.1	432.8	292.3	261.4	238.9	213.6	213.6	233.3	261.4	261.4
52.5°	6413.1	3852.9	444.0	281.0	247.3	219.2	193.9	191.1	202.3	222.0	222.0
55°	7944.7	4864.6	486.2	269.8	230.4	208.0	179.9	165.8	174.2	185.5	185.5
57.5°	9158.8	5373.3	601.4	264.2	210.8	199.5	163.0	143.3	151.8	163.0	163.0
60°	9692.7	5075.4	730.7	269.8	196.7	185.5	146.1	126.5	140.5	151.8	154.6
62.5°	9259.9	4178.9	784.1	255.7	177.0	165.8	143.3	118.0	134.9	143.3	146.1
65°	8324.1	3175.6	612.6	222.0	163.0	143.3	129.3	112.4	126.5	134.9	134.9
66°	7880.1	2768.1	522.7	205.2	157.4	134.9	123.7	112.4	123.7	129.3	132.1
67.5°	7191.5	2183.6	387.8	179.9	146.1	123.7	115.2	106.8	118.0	123.7	123.7
70°	5623.4	1301.2	233.3	140.5	126.5	109.6	104.0	98.4	106.8	109.6	109.6
72.5°	3521.3	618.3	148.9	104.0	106.8	104.0	87.1	92.7	95.6	98.4	98.4
75°	1705.8	244.5	101.2	75.9	87.1	98.4	70.3	81.5	84.3	89.9	87.1
77.5°	474.9	118.0	64.6	56.2	75.9	75.9	53.4	64.6	75.9	95.6	87.1
80°	137.7	75.9	42.2	42.2	53.4	53.4	36.5	45.0	50.6	56.2	59.0
82.5°	95.6	50.6	28.1	30.9	30.9	33.7	22.5	22.5	28.1	28.1	30.9
85°	75.9	22.5	16.9	19.7	14.1	16.9	11.2	11.2	14.1	11.2	11.2
87.5°	30.9	11.2	11.2	11.2	8.4	8.4	5.6	2.8	2.8	2.8	2.8
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)