

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: P1211160

Luminaire Tested: **ARCH4-190-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211160
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: ARCH4-190-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA 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: 19974 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

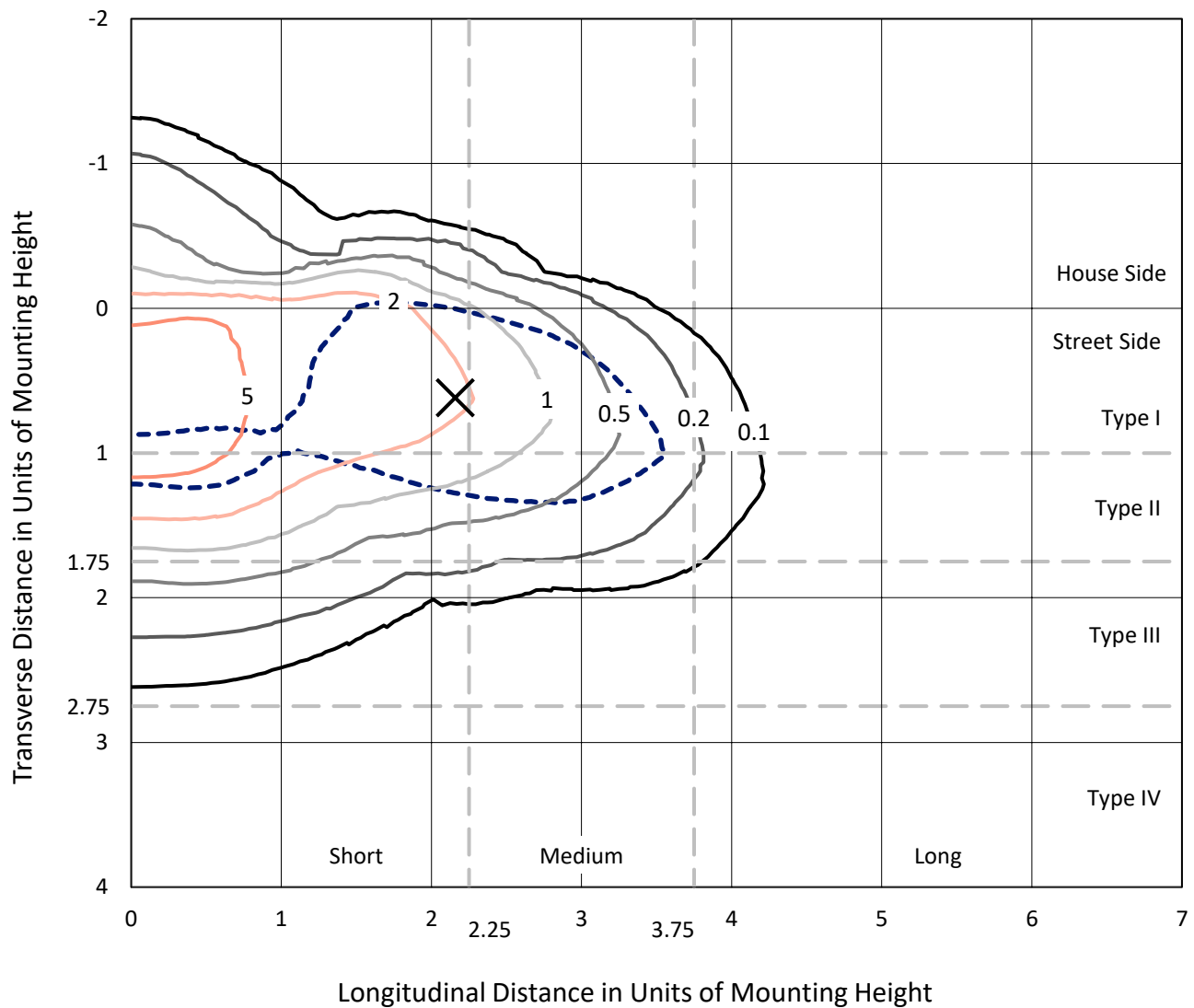
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211160
CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

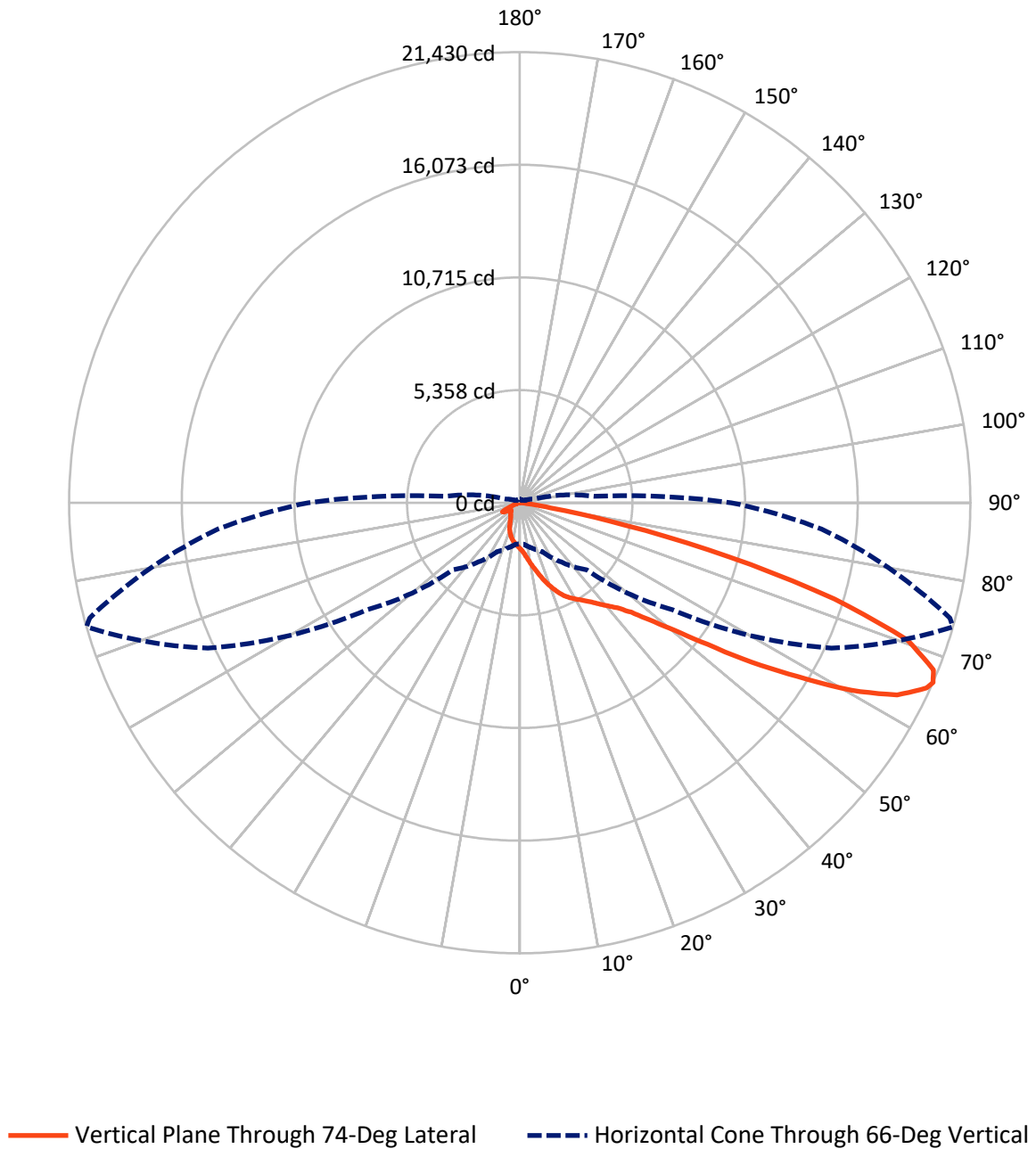
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

REPORT NUMBER: P1211160
CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211160

CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

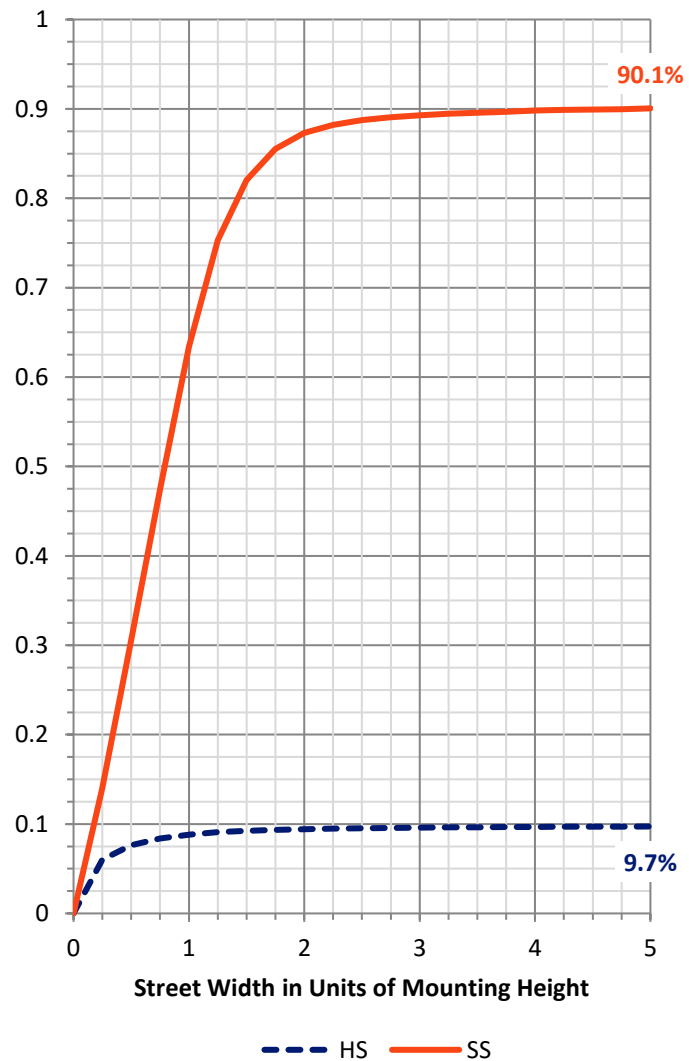
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.1	0.0	1958.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18015.9	0.0	18015.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	19974.0	0.0	19974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.1
10°-20°	682.2	3.4
20°-30°	1302.0	6.5
30°-40°	2282.1	11.4
40°-50°	3913.3	19.6
50°-60°	5089.5	25.5
60°-70°	4607.3	23.1
70°-80°	1777.7	8.9
80°-90°	107.0	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°	19974.0	100.0
0°-180°	19974.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211160

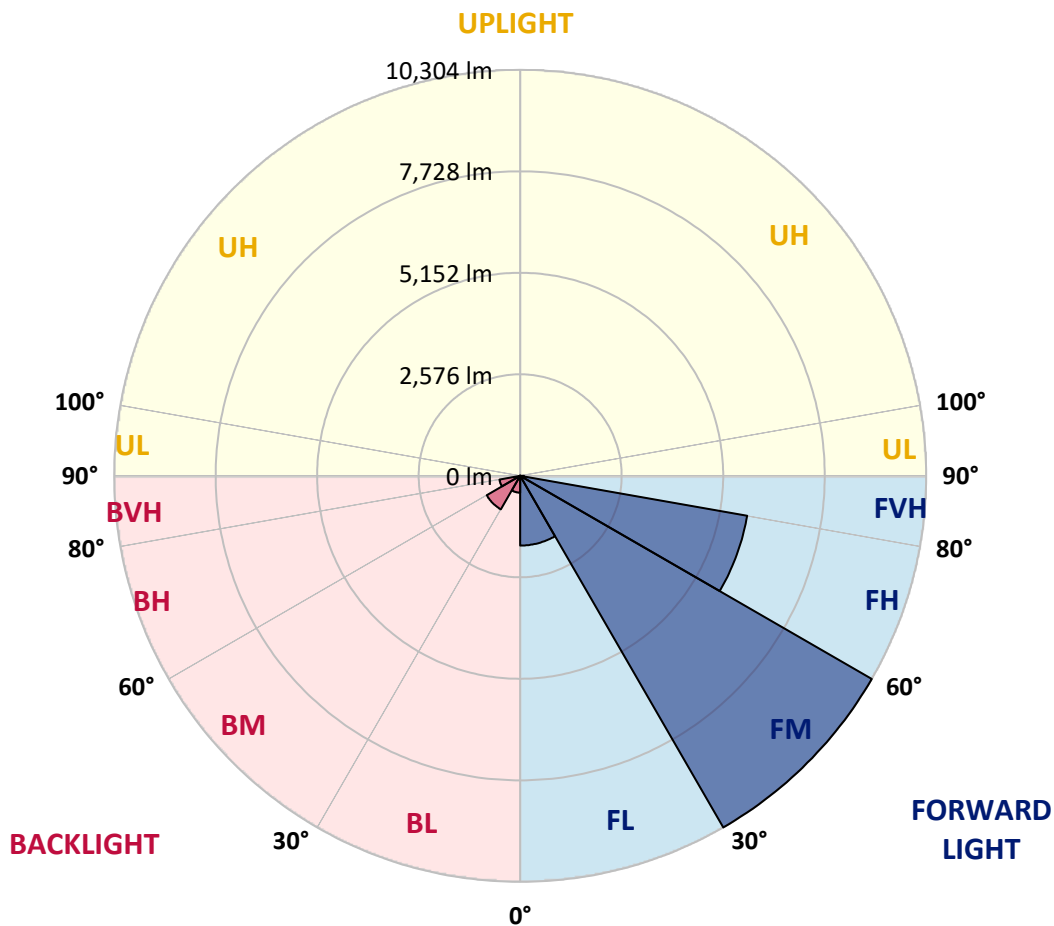
CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1770.0	8.9			
FM	(30°-60°)	10303.6	51.6			
FH	(60°-80°)	5849.7	29.3			G3/7500
FVH	(80°-90°)	92.6	0.5			G1/100
BL	(0°-30°)	427.1	2.1	B1/500		
BM	(30°-60°)	981.3	4.9	B1/1000		
BH	(60°-80°)	535.3	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P1211160

CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2617.8	2596.3	2556.9	2553.3	2521.0	2481.6	2413.4	2341.7	2291.5	2284.3	2223.4
5°	3134.2	3123.5	3084.0	3058.9	2998.0	2904.7	2746.9	2589.1	2456.5	2442.1	2305.8
7.5°	3270.5	3277.7	3284.8	3309.9	3288.4	3245.4	3127.1	2904.7	2696.7	2664.5	2427.8
10°	3292.0	3284.8	3284.8	3317.1	3378.1	3439.0	3424.7	3234.6	2965.7	2926.2	2596.3
12.5°	3525.1	3535.9	3510.8	3496.4	3485.7	3517.9	3625.5	3543.0	3249.0	3216.7	2800.7
15°	3826.3	3822.8	3786.9	3786.9	3754.6	3700.8	3769.0	3829.9	3589.7	3550.2	3033.8
17.5°	4045.1	4059.4	4055.9	4077.4	4066.6	3994.9	3959.0	4084.5	3941.1	3890.9	3299.2
20°	4220.8	4260.3	4274.6	4342.7	4375.0	4324.8	4231.6	4310.5	4278.2	4231.6	3568.1
22.5°	4407.3	4439.6	4464.7	4583.0	4672.7	4661.9	4543.6	4525.6	4604.5	4561.5	3833.5
25°	4593.8	4608.1	4683.4	4826.9	4970.3	5006.2	4884.2	4744.4	4898.6	4859.1	4070.2
27.5°	4798.2	4805.3	4895.0	5070.7	5271.5	5346.8	5250.0	4991.8	5124.5	5124.5	4285.4
30°	5171.1	5242.8	5278.7	5436.5	5612.2	5716.2	5601.5	5253.6	5325.3	5357.6	4511.3
32.5°	5974.4	5985.2	5974.4	6042.5	6078.4	6139.4	6006.7	5547.7	5529.7	5565.6	4733.6
35°	7200.8	7157.8	7043.1	6942.6	6734.7	6619.9	6447.8	5924.2	5780.8	5831.0	4952.4
37.5°	8689.1	8628.1	8366.3	8057.9	7613.2	7154.2	6939.1	6383.2	6099.9	6164.5	5189.1
40°	10109.2	10069.7	9757.7	9377.6	8617.3	7832.0	7376.6	6770.5	6454.9	6480.0	5429.3
42.5°	11278.2	11271.0	11009.3	10611.2	9635.8	8563.6	7893.0	7150.6	6827.9	6867.3	5680.3
45°	12164.0	12095.8	11902.2	11615.3	10622.0	9323.8	8516.9	7728.0	7426.8	7473.4	6056.9
47.5°	12164.0	12174.7	12300.2	12271.6	11310.5	10037.4	9198.3	8456.0	8312.5	8355.6	6677.3
50°	11174.2	11274.6	11834.1	12303.8	11669.1	10593.3	9933.4	9366.8	9513.9	9578.4	7760.3
52.5°	9216.2	9384.8	10356.6	11428.8	11403.7	10873.0	10693.7	10525.1	11185.0	11299.7	9359.7
55°	7003.6	7114.8	8380.7	9790.0	10249.0	10643.5	11357.1	11995.4	13397.6	13372.5	10984.2
57.5°	5232.1	5336.1	6426.2	7989.8	8595.8	9650.1	11697.8	13677.3	15592.3	15689.1	12508.2
60°	3847.9	3926.8	4855.5	6139.4	7014.4	8129.6	11561.5	15334.1	18120.4	18009.3	13853.0
62.5°	2847.3	2890.4	3561.0	4396.5	5558.4	6623.5	10704.4	16467.3	20139.4	19913.5	14602.5
65°	2201.9	2216.2	2564.0	3008.7	4041.5	5149.6	9427.8	16639.4	21254.7	21014.4	14588.2
66°	1961.6	1972.3	2227.0	2571.2	3439.0	4507.7	8868.4	16363.3	21430.4	21175.8	14408.9
67.5°	1646.0	1638.8	1789.5	2015.4	2582.0	3478.5	7875.0	15556.4	21222.4	21093.3	13835.1
70°	1219.3	1222.9	1298.2	1352.0	1509.7	1925.7	5687.5	13494.4	19558.5	19551.3	12260.8
72.5°	903.7	914.4	971.8	982.6	943.1	1043.5	3277.7	10733.1	15646.1	15649.6	9166.0
75°	677.8	695.7	713.6	720.8	684.9	659.8	1481.0	7222.4	10292.0	10216.7	5189.1
77.5°	516.4	523.6	537.9	527.2	520.0	455.4	616.8	3521.5	5081.5	4629.6	1681.9
80°	376.5	376.5	390.9	376.5	373.0	326.3	337.1	1129.6	1491.8	1240.8	362.2
82.5°	236.7	233.1	243.9	240.3	233.1	208.0	197.2	315.6	344.3	308.4	175.7
85°	132.7	129.1	125.5	121.9	111.2	93.2	107.6	118.3	157.8	161.4	125.5
87.5°	46.6	46.6	43.0	39.4	32.3	32.3	39.4	39.4	57.4	57.4	64.5
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: P1211160

CATALOG NUMBER: ARCH4-190-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2194.7	2155.2	2097.9	2022.5	1968.8	1915.0	1857.6	1825.3	1778.7	1767.9	1782.3
5°	2234.1	2162.4	2019.0	1861.2	1724.9	1603.0	1488.2	1420.1	1352.0	1326.8	1337.6
7.5°	2316.6	2194.7	1950.8	1696.2	1470.3	1287.4	1151.1	1072.2	1011.3	986.2	993.3
10°	2438.5	2252.1	1886.3	1509.7	1219.3	1025.6	910.9	860.7	824.8	810.5	814.0
12.5°	2585.6	2334.5	1803.8	1323.3	1004.1	835.6	781.8	771.0	763.8	756.7	760.2
15°	2750.5	2406.3	1707.0	1140.4	835.6	742.3	724.4	720.8	717.2	717.2	717.2
17.5°	2922.7	2470.8	1599.4	968.2	728.0	684.9	674.2	674.2	674.2	677.8	677.8
20°	3084.0	2521.0	1473.9	814.0	667.0	631.1	624.0	624.0	627.6	631.1	631.1
22.5°	3241.8	2542.5	1326.8	706.5	616.8	584.5	573.8	573.8	573.8	577.4	577.4
25°	3378.1	2542.5	1179.8	638.3	573.8	541.5	527.2	523.6	527.2	527.2	527.2
27.5°	3492.8	2531.8	1036.4	591.7	530.7	498.5	484.1	480.5	487.7	491.3	491.3
30°	3614.8	2517.4	921.6	548.7	494.9	462.6	448.3	448.3	459.0	473.4	473.4
32.5°	3733.1	2528.2	832.0	512.8	459.0	433.9	419.6	423.2	444.7	466.2	466.2
35°	3858.6	2549.7	778.2	487.7	433.9	408.8	398.1	408.8	430.3	451.8	451.8
37.5°	3984.1	2574.8	745.9	466.2	412.4	387.3	380.1	394.5	419.6	441.1	444.7
40°	4116.8	2596.3	710.0	444.7	398.1	369.4	365.8	380.1	412.4	433.9	437.5
42.5°	4281.8	2639.4	667.0	426.7	383.7	347.8	351.4	362.2	394.5	426.7	430.3
45°	4604.5	2775.6	624.0	408.8	365.8	337.1	329.9	337.1	373.0	408.8	416.0
47.5°	5210.6	3084.0	577.4	390.9	347.8	329.9	301.2	308.4	340.7	380.1	383.7
50°	6372.5	3740.3	552.3	373.0	333.5	304.8	272.5	272.5	297.6	333.5	333.5
52.5°	8183.4	4916.5	566.6	358.6	315.6	279.7	247.4	243.9	258.2	283.3	283.3
55°	10137.8	6207.5	620.4	344.3	294.1	265.4	229.5	211.6	222.3	236.7	236.7
57.5°	11687.0	6856.6	767.4	337.1	269.0	254.6	208.0	182.9	193.6	208.0	208.0
60°	12368.4	6476.5	932.4	344.3	251.0	236.7	186.5	161.4	179.3	193.6	197.2
62.5°	11816.1	5332.5	1000.5	326.3	225.9	211.6	182.9	150.6	172.1	182.9	186.5
65°	10622.0	4052.3	781.8	283.3	208.0	182.9	165.0	143.4	161.4	172.1	172.1
66°	10055.4	3532.3	667.0	261.8	200.8	172.1	157.8	143.4	157.8	165.0	168.5
67.5°	9176.8	2786.4	494.9	229.5	186.5	157.8	147.0	136.3	150.6	157.8	157.8
70°	7175.7	1660.4	297.6	179.3	161.4	139.9	132.7	125.5	136.3	139.9	139.9
72.5°	4493.4	788.9	190.1	132.7	136.3	132.7	111.2	118.3	121.9	125.5	125.5
75°	2176.7	312.0	129.1	96.8	111.2	125.5	89.7	104.0	107.6	114.8	111.2
77.5°	606.0	150.6	82.5	71.7	96.8	96.8	68.1	82.5	96.8	121.9	111.2
80°	175.7	96.8	53.8	53.8	68.1	68.1	46.6	57.4	64.5	71.7	75.3
82.5°	121.9	64.5	35.9	39.4	39.4	43.0	28.7	28.7	35.9	35.9	39.4
85°	96.8	28.7	21.5	25.1	17.9	21.5	14.3	14.3	17.9	14.3	14.3
87.5°	39.4	14.3	14.3	14.3	10.8	10.8	7.2	3.6	3.6	3.6	3.6
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)