

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: P1211068

Luminaire Tested: **ARCH4-160-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211068
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: ARCH4-160-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA 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: 18072 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

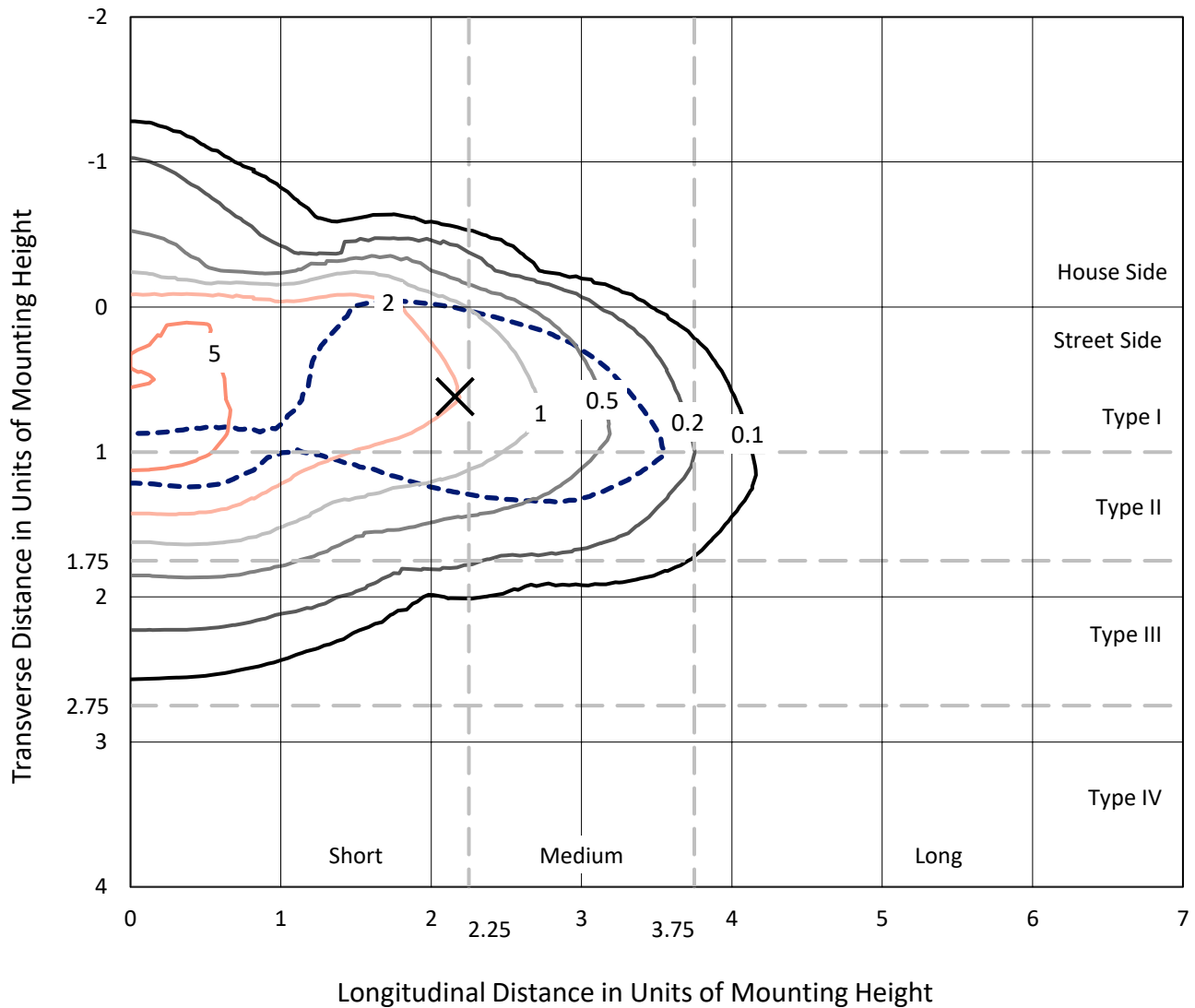


REPORT NUMBER: P1211068

CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

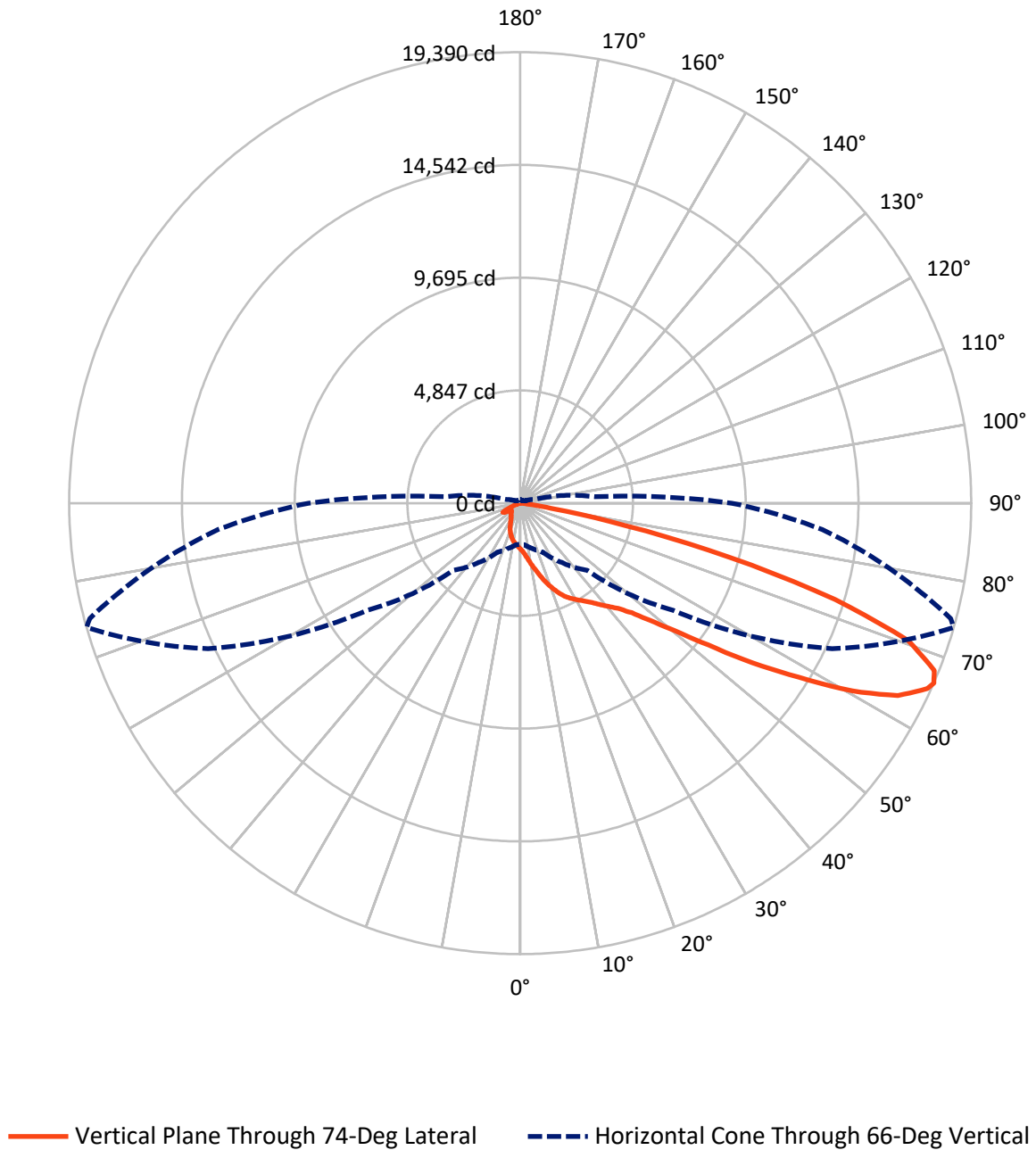
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

REPORT NUMBER: P1211068
CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211068

CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

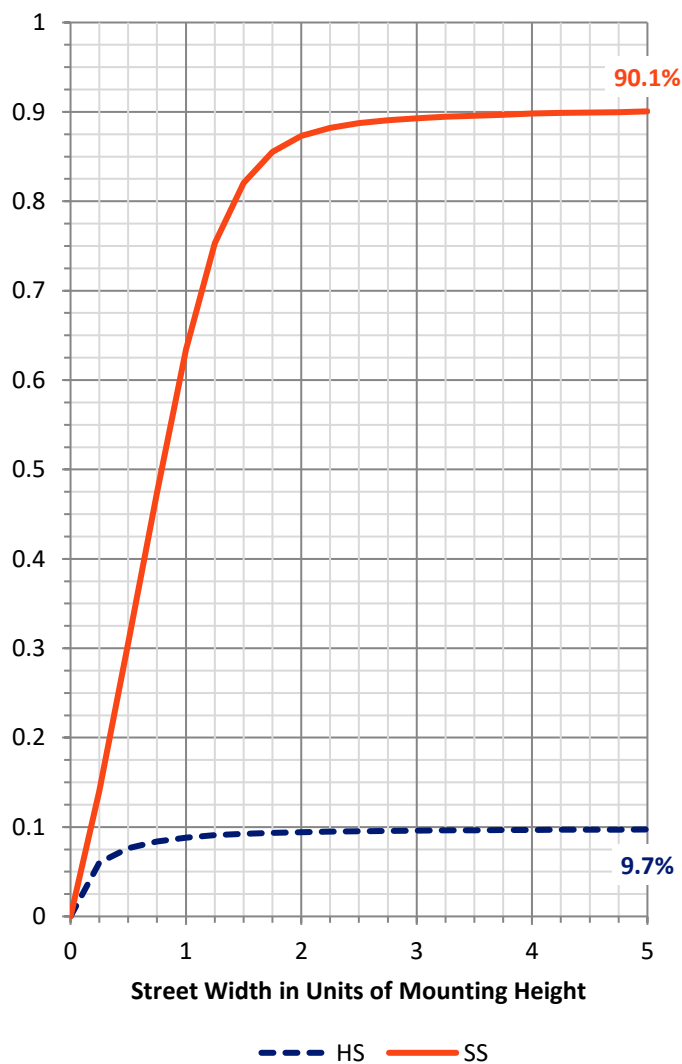
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.6	0.0	1771.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16300.4	0.0	16300.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	18072.0	0.0	18072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	1.1
10°-20°	617.3	3.4
20°-30°	1178.1	6.5
30°-40°	2064.8	11.4
40°-50°	3540.6	19.6
50°-60°	4604.9	25.5
60°-70°	4168.5	23.1
70°-80°	1608.5	8.9
80°-90°	96.8	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°	18072.0	100.0
0°-180°	18072.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211068

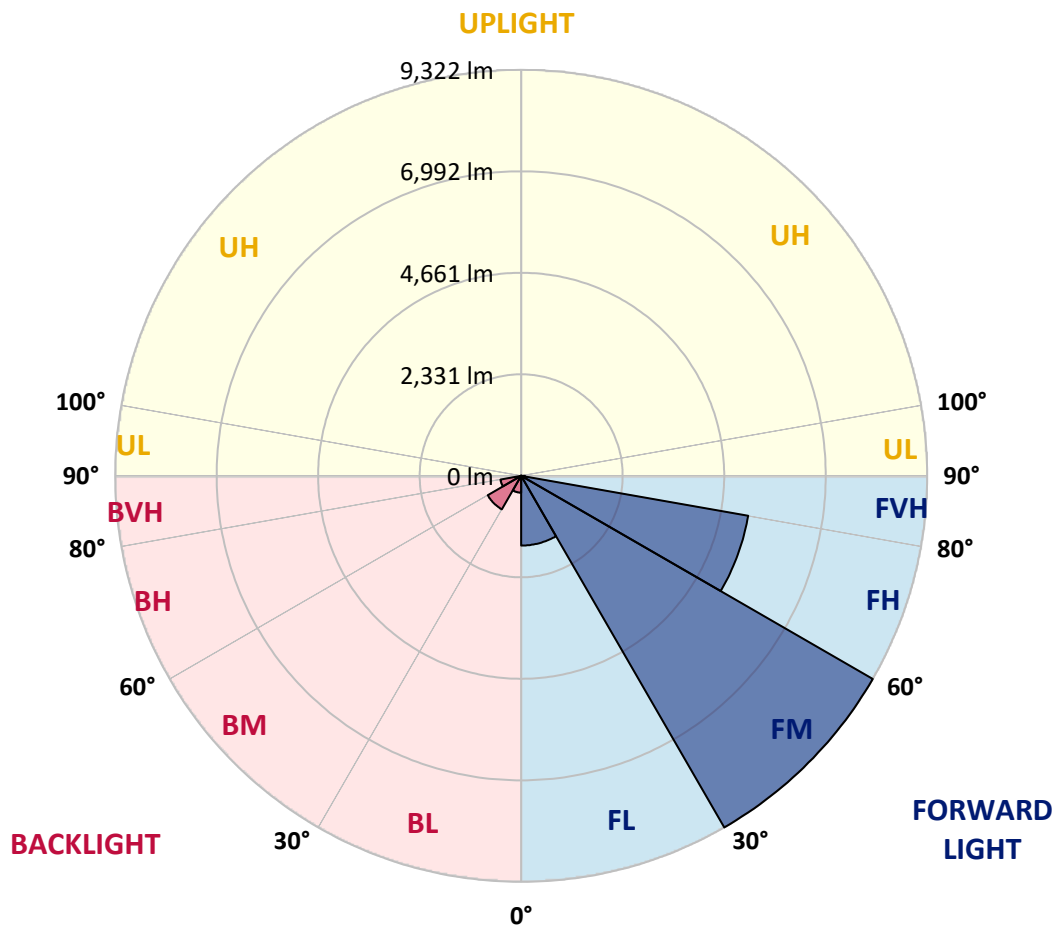
CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1601.4	8.9			
FM	(30°-60°)	9322.4	51.6			
FH	(60°-80°)	5292.7	29.3			G3/7500
FVH	(80°-90°)	83.8	0.5			G1/100
BL	(0°-30°)	386.4	2.1	B1/500		
BM	(30°-60°)	887.9	4.9	B1/1000		
BH	(60°-80°)	484.3	2.7	B1/500		G1/500
BVH	(80°-90°)	13.0	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-G3

Type II Short



REPORT NUMBER: P1211068

CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7
2.5°	2368.6	2349.1	2313.4	2310.2	2281.0	2245.3	2183.6	2118.7	2073.3	2066.8	2011.7
5°	2835.8	2826.0	2790.4	2767.6	2712.5	2628.1	2485.4	2342.6	2222.5	2209.6	2086.3
7.5°	2959.1	2965.6	2972.1	2994.8	2975.3	2936.4	2829.3	2628.1	2439.9	2410.7	2196.6
10°	2978.5	2972.1	2972.1	3001.3	3056.4	3111.6	3098.6	2926.6	2683.3	2647.6	2349.1
12.5°	3189.4	3199.2	3176.5	3163.5	3153.7	3182.9	3280.3	3205.7	2939.6	2910.4	2534.0
15°	3462.0	3458.7	3426.3	3426.3	3397.1	3348.4	3410.1	3465.2	3247.8	3212.2	2744.9
17.5°	3659.9	3672.9	3669.6	3689.1	3679.4	3614.5	3582.0	3695.6	3565.8	3520.4	2985.0
20°	3818.9	3854.6	3867.6	3929.2	3958.4	3913.0	3828.6	3900.0	3870.8	3828.6	3228.4
22.5°	3987.6	4016.8	4039.5	4146.6	4227.7	4218.0	4110.9	4094.7	4166.1	4127.1	3468.5
25°	4156.3	4169.3	4237.4	4367.2	4497.0	4529.5	4419.1	4292.6	4432.1	4396.4	3682.6
27.5°	4341.3	4347.8	4428.9	4587.9	4769.6	4837.7	4750.1	4516.5	4636.5	4636.5	3877.3
30°	4678.7	4743.6	4776.0	4918.8	5077.8	5171.9	5068.1	4753.3	4818.2	4847.4	4081.7
32.5°	5405.5	5415.2	5405.5	5467.1	5499.6	5554.8	5434.7	5019.4	5003.2	5035.6	4282.9
35°	6515.2	6476.2	6372.4	6281.5	6093.4	5989.5	5833.8	5360.1	5230.3	5275.7	4480.8
37.5°	7861.7	7806.5	7569.6	7290.6	6888.3	6473.0	6278.3	5775.4	5519.1	5577.5	4694.9
40°	9146.5	9110.8	8828.5	8484.6	7796.8	7086.2	6674.1	6125.8	5840.3	5863.0	4912.3
42.5°	10204.3	10197.8	9960.9	9600.8	8718.2	7748.1	7141.4	6469.7	6177.7	6213.4	5139.4
45°	11005.7	10944.0	10768.8	10509.2	9610.5	8436.0	7705.9	6992.1	6719.6	6761.7	5480.1
47.5°	11005.7	11015.4	11129.0	11103.0	10233.5	9081.6	8322.4	7650.8	7521.0	7559.9	6041.4
50°	10110.2	10201.0	10707.2	11132.2	10557.9	9584.5	8987.5	8474.9	8607.9	8666.3	7021.3
52.5°	8338.6	8491.1	9370.4	10340.5	10317.8	9837.6	9675.4	9522.9	10119.9	10223.7	8468.4
55°	6336.7	6437.3	7582.6	8857.8	9273.1	9630.0	10275.6	10853.2	12121.8	12099.1	9938.2
57.5°	4733.9	4828.0	5814.3	7229.0	7777.3	8731.2	10583.9	12374.9	14107.5	14195.1	11317.2
60°	3481.5	3552.8	4393.2	5554.8	6346.4	7355.5	10460.6	13873.9	16394.9	16294.4	12533.9
62.5°	2576.2	2615.1	3221.9	3977.9	5029.1	5992.8	9685.1	14899.2	18221.7	18017.2	13212.0
65°	1992.2	2005.2	2319.9	2722.2	3656.7	4659.2	8530.0	15054.9	19230.7	19013.3	13199.0
66°	1774.8	1784.5	2014.9	2326.4	3111.6	4078.5	8023.9	14805.1	19389.7	19159.3	13036.8
67.5°	1489.3	1482.8	1619.1	1823.5	2336.1	3147.3	7125.1	14075.1	19201.5	19084.7	12517.7
70°	1103.2	1106.4	1174.5	1223.2	1366.0	1742.3	5145.9	12209.4	17696.0	17689.5	11093.3
72.5°	817.6	827.4	879.3	889.0	853.3	944.2	2965.6	9711.1	14156.2	14159.4	8293.2
75°	613.2	629.5	645.7	652.2	619.7	597.0	1340.0	6534.6	9312.0	9243.9	4694.9
77.5°	467.2	473.7	486.7	477.0	470.5	412.1	558.1	3186.2	4597.6	4188.8	1521.7
80°	340.7	340.7	353.7	340.7	337.4	295.3	305.0	1022.0	1349.8	1122.6	327.7
82.5°	214.1	210.9	220.6	217.4	210.9	188.2	178.5	285.5	311.5	279.0	159.0
85°	120.1	116.8	113.6	110.3	100.6	84.4	97.3	107.1	142.8	146.0	113.6
87.5°	42.2	42.2	38.9	35.7	29.2	29.2	35.7	35.7	51.9	51.9	58.4
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: P1211068

CATALOG NUMBER: ARCH4-160-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7	1972.7
2.5°	1985.7	1950.0	1898.1	1830.0	1781.3	1732.6	1680.7	1651.5	1609.3	1599.6	1612.6
5°	2021.4	1956.5	1826.7	1683.9	1560.7	1450.3	1346.5	1284.9	1223.2	1200.5	1210.2
7.5°	2096.0	1985.7	1765.1	1534.7	1330.3	1164.8	1041.5	970.1	915.0	892.3	898.8
10°	2206.3	2037.6	1706.7	1366.0	1103.2	928.0	824.1	778.7	746.3	733.3	736.5
12.5°	2339.4	2112.2	1632.0	1197.3	908.5	756.0	707.3	697.6	691.1	684.6	687.9
15°	2488.6	2177.1	1544.4	1031.8	756.0	671.6	655.4	652.2	648.9	648.9	648.9
17.5°	2644.3	2235.5	1447.1	876.0	658.7	619.7	610.0	610.0	610.0	613.2	613.2
20°	2790.4	2281.0	1333.5	736.5	603.5	571.0	564.6	564.6	567.8	571.0	571.0
22.5°	2933.1	2300.4	1200.5	639.2	558.1	528.9	519.1	519.1	519.1	522.4	522.4
25°	3056.4	2300.4	1067.5	577.5	519.1	489.9	477.0	473.7	477.0	477.0	477.0
27.5°	3160.2	2290.7	937.7	535.4	480.2	451.0	438.0	434.8	441.3	444.5	444.5
30°	3270.6	2277.7	833.9	496.4	447.8	418.6	405.6	405.6	415.3	428.3	428.3
32.5°	3377.6	2287.4	752.7	464.0	415.3	392.6	379.6	382.9	402.3	421.8	421.8
35°	3491.2	2306.9	704.1	441.3	392.6	369.9	360.2	369.9	389.4	408.8	408.8
37.5°	3604.7	2329.6	674.9	421.8	373.1	350.4	343.9	356.9	379.6	399.1	402.3
40°	3724.8	2349.1	642.4	402.3	360.2	334.2	330.9	343.9	373.1	392.6	395.8
42.5°	3874.0	2388.0	603.5	386.1	347.2	314.7	318.0	327.7	356.9	386.1	389.4
45°	4166.1	2511.3	564.6	369.9	330.9	305.0	298.5	305.0	337.4	369.9	376.4
47.5°	4714.4	2790.4	522.4	353.7	314.7	298.5	272.5	279.0	308.2	343.9	347.2
50°	5765.6	3384.1	499.7	337.4	301.7	275.8	246.6	246.6	269.3	301.7	301.7
52.5°	7404.2	4448.3	512.6	324.5	285.5	253.1	223.9	220.6	233.6	256.3	256.3
55°	9172.5	5616.4	561.3	311.5	266.1	240.1	207.7	191.4	201.2	214.1	214.1
57.5°	10574.1	6203.7	694.3	305.0	243.3	230.4	188.2	165.5	175.2	188.2	188.2
60°	11190.6	5859.7	843.6	311.5	227.1	214.1	168.7	146.0	162.2	175.2	178.5
62.5°	10690.9	4824.7	905.2	295.3	204.4	191.4	165.5	136.3	155.7	165.5	168.7
65°	9610.5	3666.4	707.3	256.3	188.2	165.5	149.3	129.8	146.0	155.7	155.7
66°	9097.9	3195.9	603.5	236.9	181.7	155.7	142.8	129.8	142.8	149.3	152.5
67.5°	8302.9	2521.1	447.8	207.7	168.7	142.8	133.0	123.3	136.3	142.8	142.8
70°	6492.4	1502.2	269.3	162.2	146.0	126.5	120.1	113.6	123.3	126.5	126.5
72.5°	4065.5	713.8	172.0	120.1	123.3	120.1	100.6	107.1	110.3	113.6	113.6
75°	1969.5	282.3	116.8	87.6	100.6	113.6	81.1	94.1	97.3	103.8	100.6
77.5°	548.3	136.3	74.6	64.9	87.6	87.6	61.6	74.6	87.6	110.3	100.6
80°	159.0	87.6	48.7	48.7	61.6	61.6	42.2	51.9	58.4	64.9	68.1
82.5°	110.3	58.4	32.4	35.7	35.7	38.9	26.0	26.0	32.4	32.4	35.7
85°	87.6	26.0	19.5	22.7	16.2	19.5	13.0	13.0	16.2	13.0	13.0
87.5°	35.7	13.0	13.0	13.0	9.7	9.7	6.5	3.2	3.2	3.2	3.2
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)