

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: P1211289

Luminaire Tested: **ARCH4-230-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32416 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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

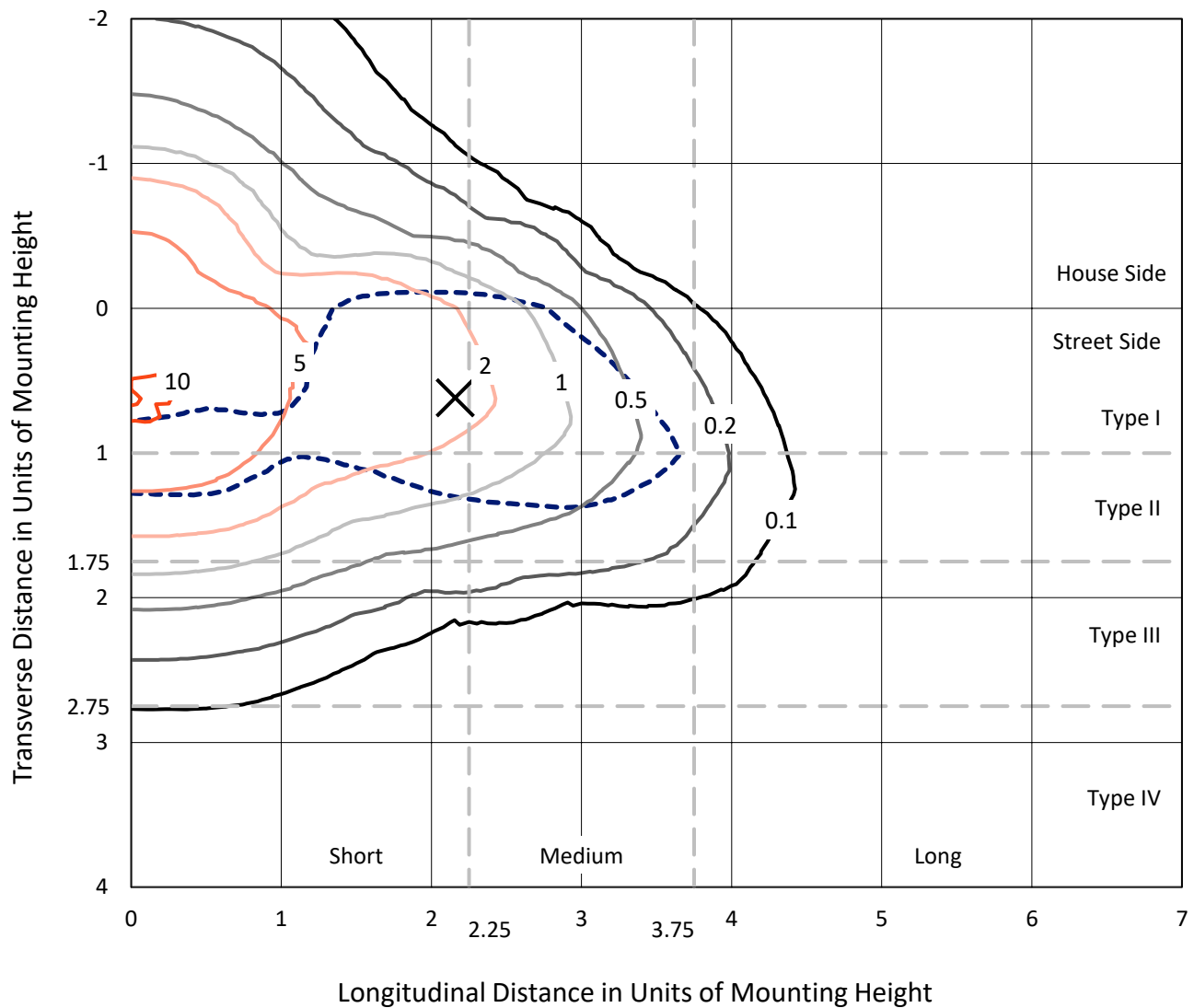


REPORT NUMBER: P1211289

CATALOG NUMBER: ARCH4-230-727-U-T2RE

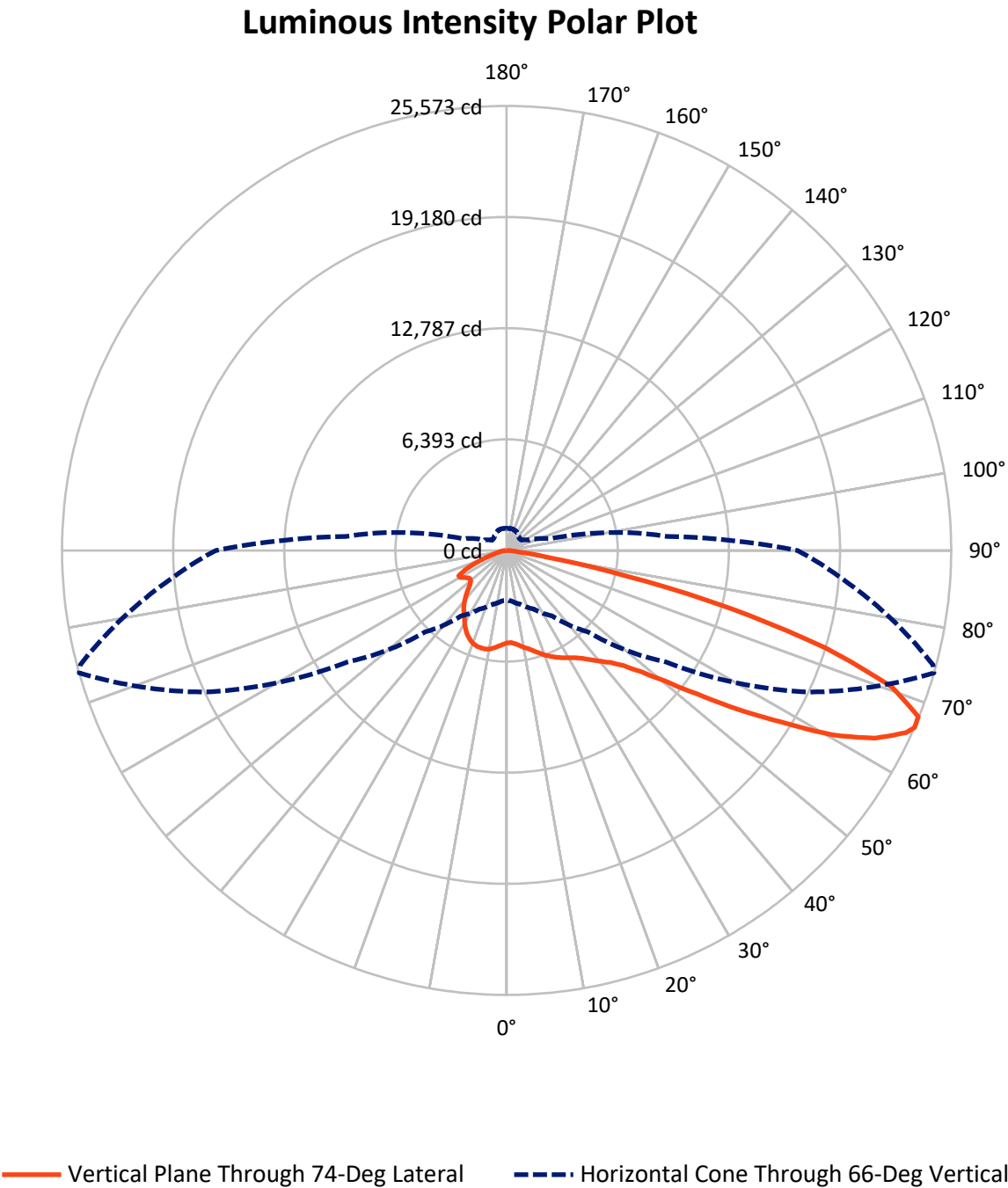
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

REPORT NUMBER: P1211289
CATALOG NUMBER: ARCH4-230-727-U-T2RE



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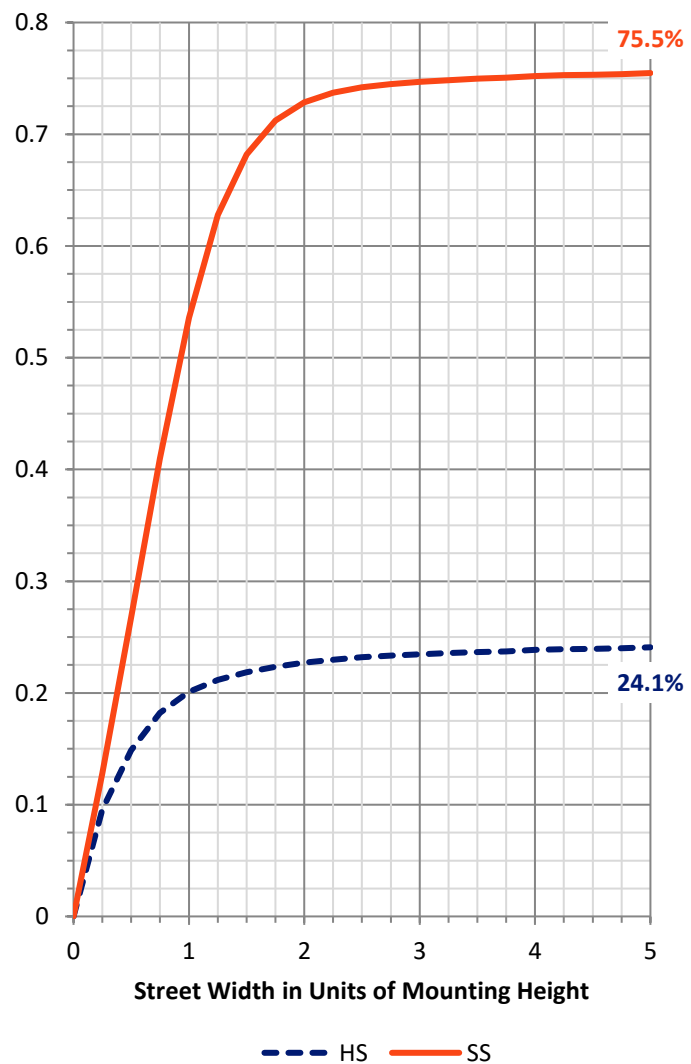
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7894.2	0.0	7894.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	24521.8	0.0	24521.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	32416.0	0.0	32416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.9	1.6
10°-20°	1558.9	4.8
20°-30°	2925.2	9.0
30°-40°	4499.7	13.9
40°-50°	6052.5	18.7
50°-60°	7157.8	22.1
60°-70°	6621.3	20.4
70°-80°	2785.5	8.6
80°-90°	308.2	1.0
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°	32416.0	100.0
0°-180°	32416.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211289

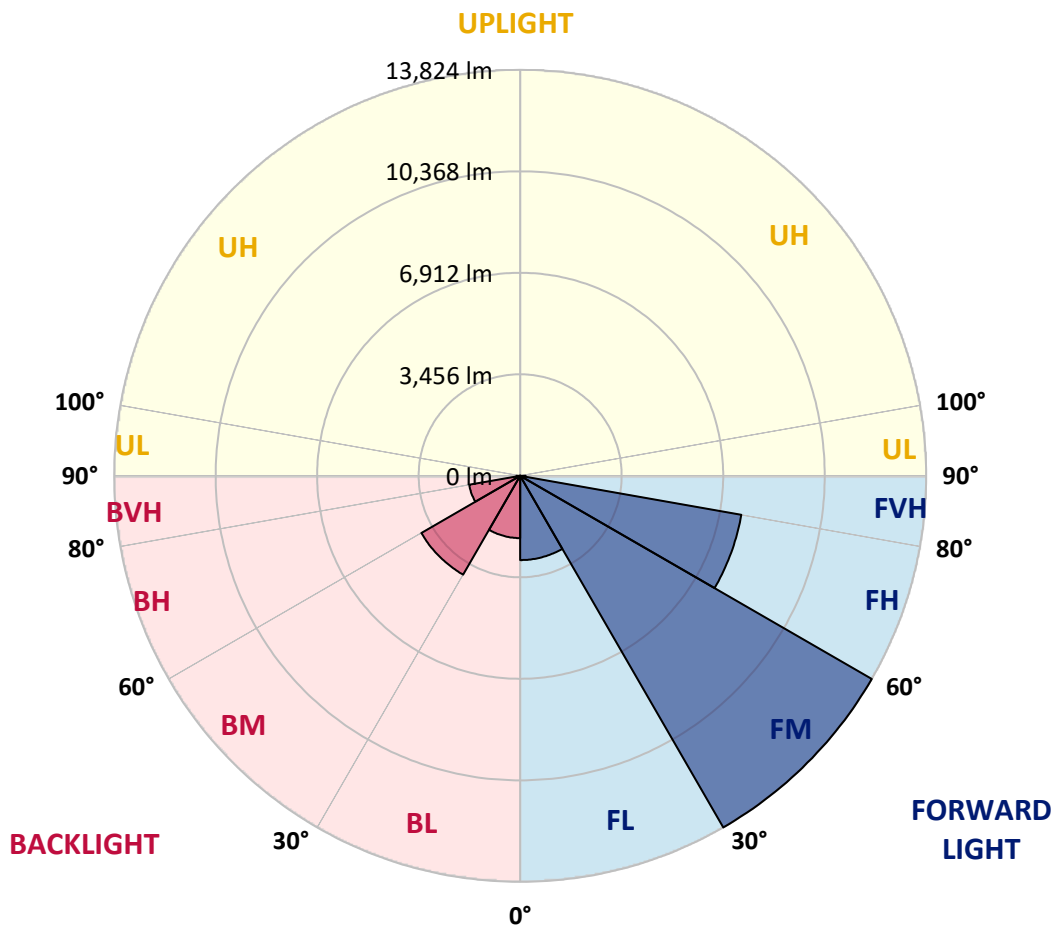
CATALOG NUMBER: ARCH4-230-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2869.2	8.9			
FM	(30°-60°)	13823.6	42.6			
FH	(60°-80°)	7644.6	23.6			G4/12000
FVH	(80°-90°)	184.4	0.6			G2/225
BL	(0°-30°)	2121.8	6.5	B3/2500		
BM	(30°-60°)	3886.3	12.0	B3/5000		
BH	(60°-80°)	1762.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	123.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P1211289

CATALOG NUMBER: ARCH4-230-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1
2.5°	5297.4	5289.0	5305.7	5330.7	5343.3	5322.4	5314.1	5309.9	5309.9	5297.4	5318.2
5°	5047.1	5042.9	5080.5	5126.4	5214.0	5276.5	5359.9	5410.0	5393.3	5368.3	5385.0
7.5°	4721.8	4713.4	4759.3	4846.9	4967.9	5105.5	5309.9	5468.4	5531.0	5522.6	5518.4
10°	4846.9	4838.5	4834.4	4809.3	4851.1	4984.5	5197.3	5476.7	5689.5	5693.6	5697.8
12.5°	5280.7	5301.5	5280.7	5201.4	5109.7	5059.6	5184.8	5497.6	5822.9	5848.0	5952.2
15°	5873.0	5852.1	5810.4	5718.7	5576.8	5426.7	5334.9	5593.5	6014.8	6035.7	6265.1
17.5°	6394.4	6411.1	6386.0	6298.5	6131.6	5935.6	5656.1	5760.4	6219.2	6277.6	6598.8
20°	6961.7	7028.4	6995.0	6886.6	6748.9	6457.0	6106.6	6002.3	6444.4	6486.2	6945.0
22.5°	7616.5	7687.5	7624.9	7520.6	7408.0	7049.3	6598.8	6298.5	6632.1	6719.7	7278.7
25°	8400.7	8467.5	8409.1	8246.4	8104.6	7666.6	7128.5	6632.1	6815.7	6911.6	7549.8
27.5°	9022.2	9072.3	9126.5	9030.6	8813.7	8359.0	7679.1	6978.4	6999.2	7099.3	7800.1
30°	9577.0	9702.1	9748.0	9760.5	9577.0	9068.1	8242.2	7337.1	7157.7	7262.0	8050.3
32.5°	10336.1	10523.8	10448.8	10523.8	10415.4	9735.5	8826.2	7708.3	7362.1	7458.0	8288.1
35°	11445.7	11595.8	11399.8	11341.4	11166.2	10411.2	9389.3	8092.1	7633.2	7737.5	8513.3
37.5°	12638.6	12809.6	12526.0	12292.4	11958.7	11078.6	9873.1	8596.8	8008.6	8092.1	8721.9
40°	13681.4	13823.2	13577.1	13268.5	12709.5	11666.7	10290.3	8951.3	8384.0	8488.3	8963.8
42.5°	14644.9	14736.7	14461.4	14165.3	13418.6	12196.5	10740.7	9326.7	8822.0	8922.1	9159.9
45°	15621.0	15691.9	15308.2	14886.9	14010.9	12680.3	11237.1	9852.3	9464.4	9597.8	9476.9
47.5°	15796.2	15817.0	15750.3	15466.7	14478.1	13143.3	11850.3	10557.2	10444.6	10590.6	10023.3
50°	14582.4	14770.1	15183.0	15462.5	14665.8	13531.2	12463.4	11566.6	11796.0	11983.7	11157.9
52.5°	12225.7	12405.0	13360.2	14419.7	14215.3	13618.8	13122.5	12847.2	13702.3	13927.5	12701.2
55°	9739.7	9898.2	10907.6	12434.2	12759.6	13218.4	13827.4	14482.3	16134.1	16284.2	14394.7
57.5°	8021.1	8108.7	8830.3	10298.6	10820.0	11937.9	14207.0	16426.0	18607.6	18837.0	15867.1
60°	6577.9	6673.9	7211.9	8421.6	9114.0	10106.7	13906.7	18344.8	21560.7	21560.7	17756.6
62.5°	4951.2	5034.6	5535.1	6482.0	7645.7	8555.1	12947.3	19617.0	23788.1	23688.0	19124.8
65°	3399.5	3466.2	3829.1	4459.0	5505.9	7291.2	11637.5	19633.7	25264.7	25131.2	19708.7
66°	2853.1	2911.5	3220.1	3729.0	4609.1	6615.5	11174.5	19279.1	25573.4	25385.7	19462.6
67.5°	2252.4	2294.1	2498.5	2798.8	3378.6	5355.8	10444.6	18273.9	25544.2	25431.6	18837.0
70°	1610.1	1639.3	1789.4	1852.0	1998.0	3099.2	8296.4	16004.7	23496.2	23529.5	16376.0
72.5°	1247.2	1293.1	1384.8	1397.3	1364.0	1647.6	5034.6	13351.9	19220.7	19208.2	12154.8
75°	1005.2	1030.3	1076.2	1101.2	1092.8	1063.6	2131.5	9960.7	13230.9	13385.3	6807.3
77.5°	792.5	788.3	830.1	863.4	888.5	834.2	976.1	5839.6	6936.6	6740.6	2556.9
80°	584.0	584.0	642.4	654.9	692.4	700.8	650.7	2252.4	2381.7	2164.8	663.2
82.5°	383.7	383.7	446.3	454.7	492.2	546.4	471.3	675.7	659.0	625.7	300.3
85°	208.6	200.2	221.1	250.3	271.1	321.2	283.6	337.9	346.2	342.0	200.2
87.5°	41.7	37.5	58.4	66.7	75.1	100.1	91.8	137.6	191.9	187.7	87.6
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: P1211289

CATALOG NUMBER: ARCH4-230-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1	5314.1
2.5°	5347.4	5343.3	5389.1	5443.4	5505.9	5543.5	5560.2	5589.4	5568.5	5576.8	5601.9
5°	5426.7	5439.2	5505.9	5576.8	5606.0	5585.2	5539.3	5522.6	5485.1	5476.7	5468.4
7.5°	5543.5	5564.3	5631.1	5647.8	5560.2	5414.2	5309.9	5251.5	5188.9	5172.2	5163.9
10°	5735.3	5747.9	5764.5	5593.5	5376.6	5180.6	5051.3	4997.1	4955.3	4922.0	4930.3
12.5°	5977.3	5968.9	5839.6	5485.1	5176.4	4976.2	4888.6	4855.2	4826.0	4805.2	4801.0
15°	6281.8	6223.4	5852.1	5334.9	4988.7	4821.9	4759.3	4746.8	4713.4	4713.4	4709.2
17.5°	6590.4	6440.3	5843.8	5176.4	4809.3	4717.6	4680.0	4671.7	4663.4	4659.2	4671.7
20°	6899.1	6632.1	5777.1	4980.4	4684.2	4630.0	4621.6	4625.8	4617.5	4630.0	4621.6
22.5°	7170.2	6757.3	5651.9	4771.8	4596.6	4592.4	4571.6	4579.9	4609.1	4613.3	4625.8
25°	7378.8	6803.2	5468.4	4579.9	4534.1	4525.7	4550.7	4584.1	4609.1	4613.3	4634.2
27.5°	7549.8	6778.1	5239.0	4429.8	4425.6	4471.5	4546.6	4559.1	4563.3	4563.3	4546.6
30°	7679.1	6723.9	4947.0	4262.9	4283.8	4396.4	4467.3	4467.3	4433.9	4425.6	4450.6
32.5°	7708.3	6653.0	4630.0	4091.9	4125.3	4258.8	4346.4	4317.2	4279.6	4279.6	4296.3
35°	7733.3	6557.1	4375.5	3858.3	3908.4	4066.9	4150.3	4091.9	4050.2	4037.7	4033.5
37.5°	7725.0	6519.5	4146.1	3562.2	3628.9	3783.2	3837.5	3783.2	3720.7	3691.5	3729.0
40°	7733.3	6494.5	3858.3	3236.8	3303.6	3395.3	3466.2	3424.5	3366.1	3291.0	3328.6
42.5°	7783.4	6527.9	3541.3	2919.8	2919.8	2969.9	3090.8	3061.6	2919.8	2890.6	2924.0
45°	8050.3	6707.2	3224.3	2602.8	2556.9	2590.3	2715.4	2590.3	2502.7	2502.7	2531.9
47.5°	8696.9	7040.9	2944.8	2323.3	2214.9	2281.6	2315.0	2198.2	2131.5	2114.8	2144.0
50°	10015.0	7708.3	2778.0	2093.9	1960.4	2010.5	1989.6	1985.5	1918.7	1927.1	1943.8
52.5°	12017.1	9009.7	2727.9	1981.3	1814.5	1827.0	1806.1	1814.5	1801.9	1843.7	1856.2
55°	14198.6	10382.0	2790.5	1998.0	1714.3	1626.8	1635.1	1676.8	1726.9	1793.6	1806.1
57.5°	15829.6	11070.3	2953.2	2110.6	1589.2	1455.7	1476.6	1555.8	1651.8	1706.0	1735.2
60°	17043.4	10986.8	3190.9	2139.8	1439.1	1301.4	1338.9	1455.7	1539.2	1585.0	1614.2
62.5°	17439.6	10465.4	3249.3	1927.1	1243.0	1155.4	1247.2	1368.1	1405.7	1455.7	1476.6
65°	17114.3	9727.1	2823.9	1564.2	1092.8	1047.0	1180.4	1272.2	1322.3	1347.3	1351.5
66°	16730.5	9285.0	2594.5	1422.4	1038.6	1013.6	1155.4	1230.5	1280.5	1276.4	1280.5
67.5°	15888.0	8359.0	2223.2	1222.2	959.4	963.5	1113.7	1163.8	1180.4	1167.9	1167.9
70°	13022.4	5885.5	1593.4	926.0	842.6	901.0	1001.1	1013.6	1051.1	1034.4	1034.4
72.5°	8029.5	2890.6	1067.8	709.1	750.8	842.6	838.4	880.1	967.7	992.7	1009.4
75°	3945.9	1172.1	704.9	600.6	671.6	704.9	696.6	800.9	926.0	1034.4	1072.0
77.5°	1497.4	584.0	492.2	525.6	542.3	529.7	554.8	725.8	926.0	1122.0	1159.6
80°	463.0	404.6	387.9	433.8	408.8	387.9	417.1	600.6	784.2	850.9	850.9
82.5°	279.5	317.0	300.3	296.2	275.3	279.5	300.3	429.6	604.8	634.0	634.0
85°	196.0	208.6	171.0	162.7	158.5	154.3	154.3	250.3	358.7	354.5	367.1
87.5°	75.1	83.4	62.6	62.6	58.4	41.7	33.4	41.7	41.7	29.2	20.9
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)