

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: P1211419

Luminaire Tested: **ARCH4-270-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211419
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: ARCH4-270-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35876 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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



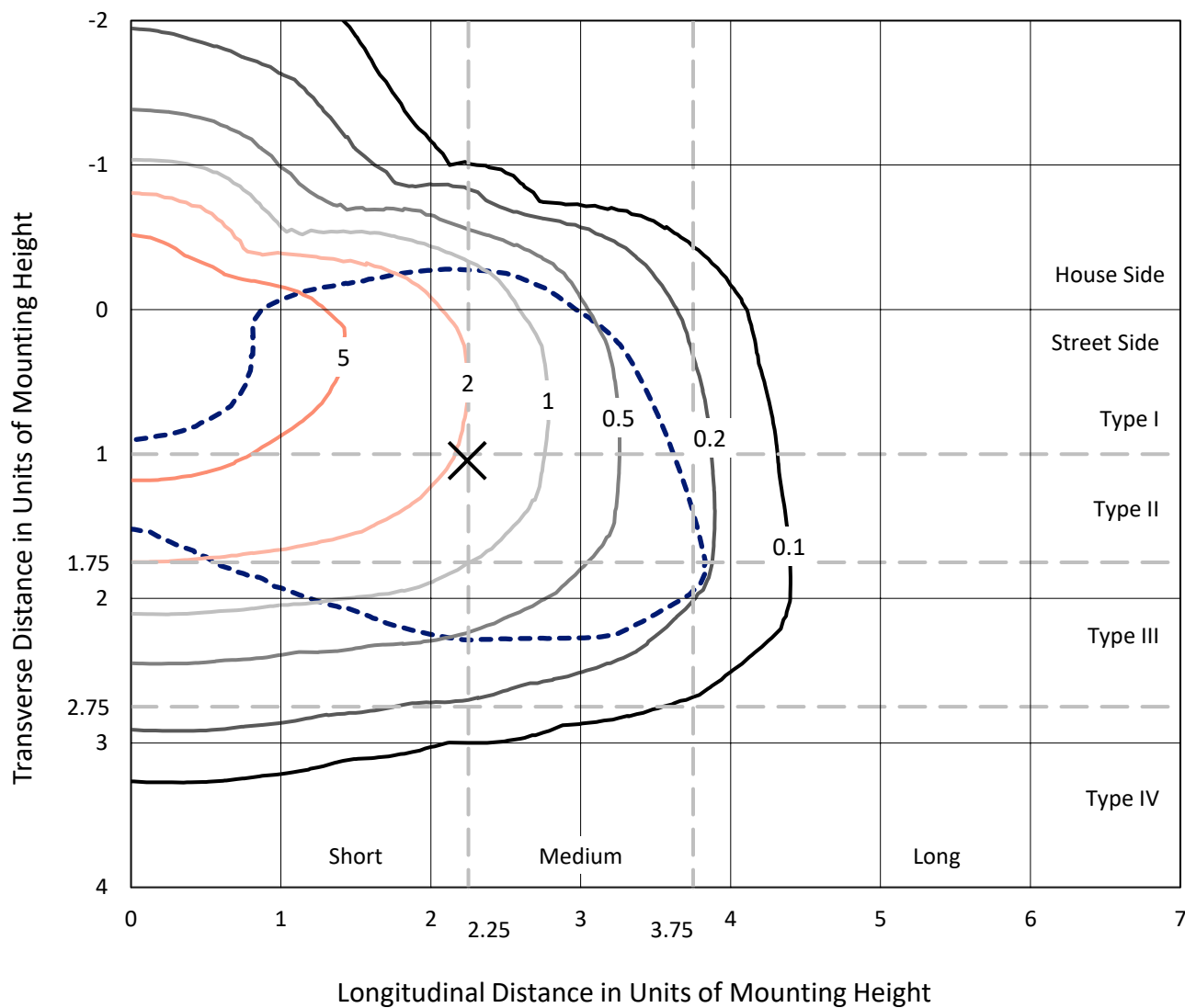
REPORT NUMBER: P1211419

CATALOG NUMBER: ARCH4-270-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

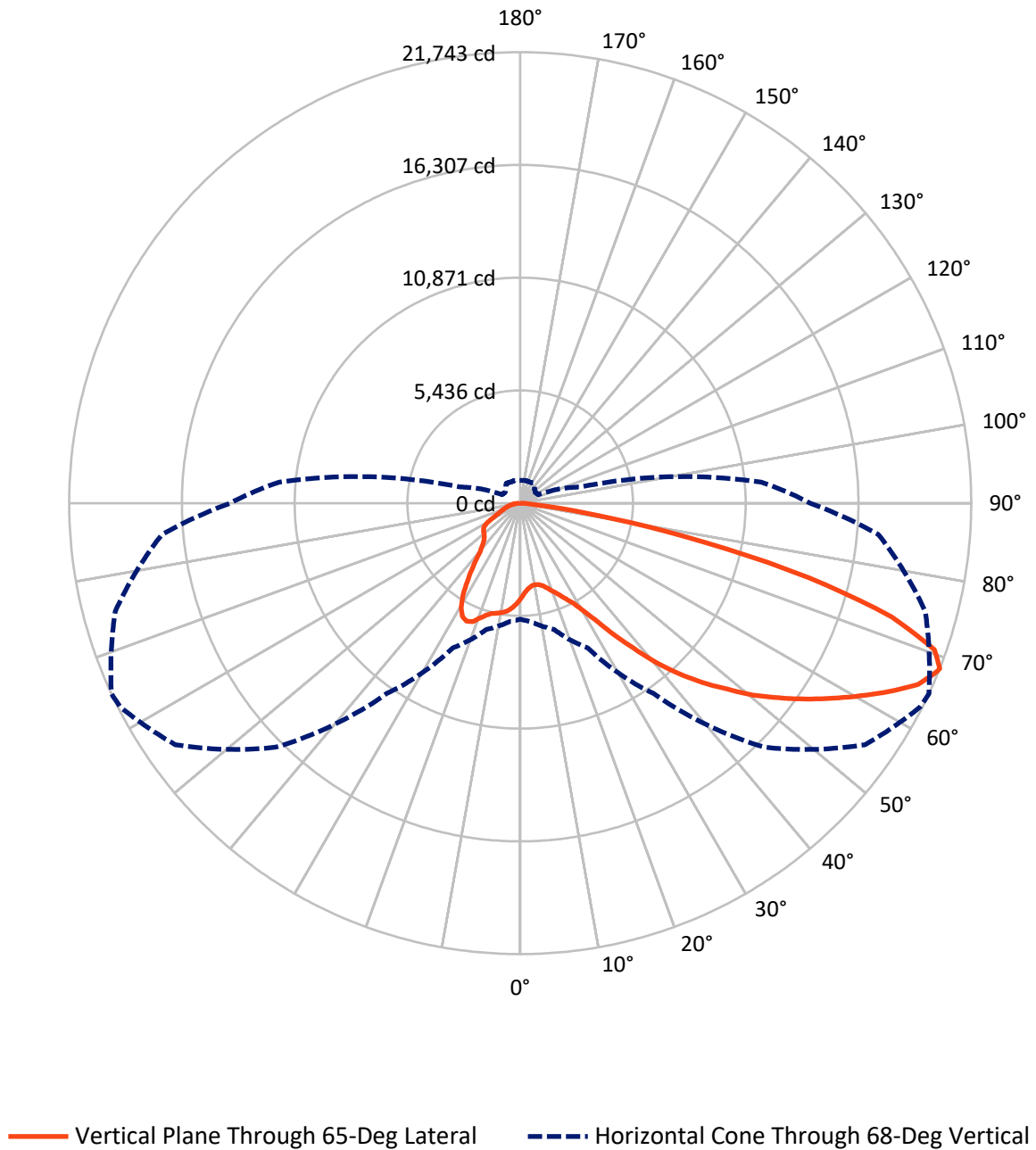


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1211419

CATALOG NUMBER: ARCH4-270-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211419

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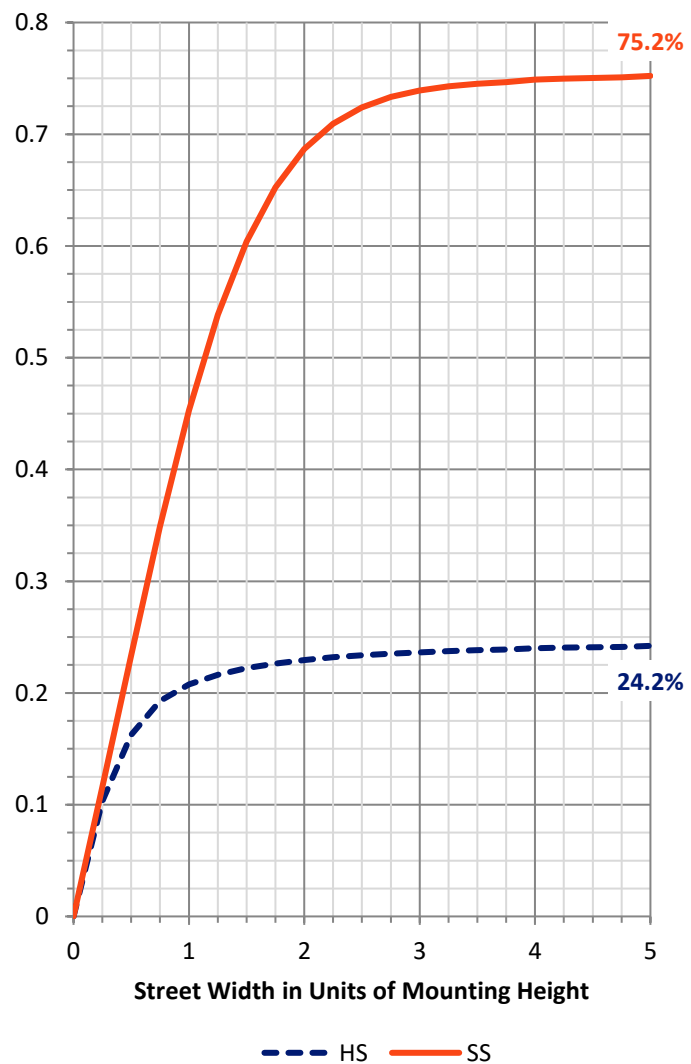
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8795.7	0.0	8795.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	27080.3	0.0	27080.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	35876.0	0.0	35876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	1.2
10°-20°	1426.6	4.0
20°-30°	2582.0	7.2
30°-40°	4061.8	11.3
40°-50°	6049.5	16.9
50°-60°	7935.8	22.1
60°-70°	8678.3	24.2
70°-80°	4294.3	12.0
80°-90°	409.6	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°	35876.0	100.0
0°-180°	35876.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211419

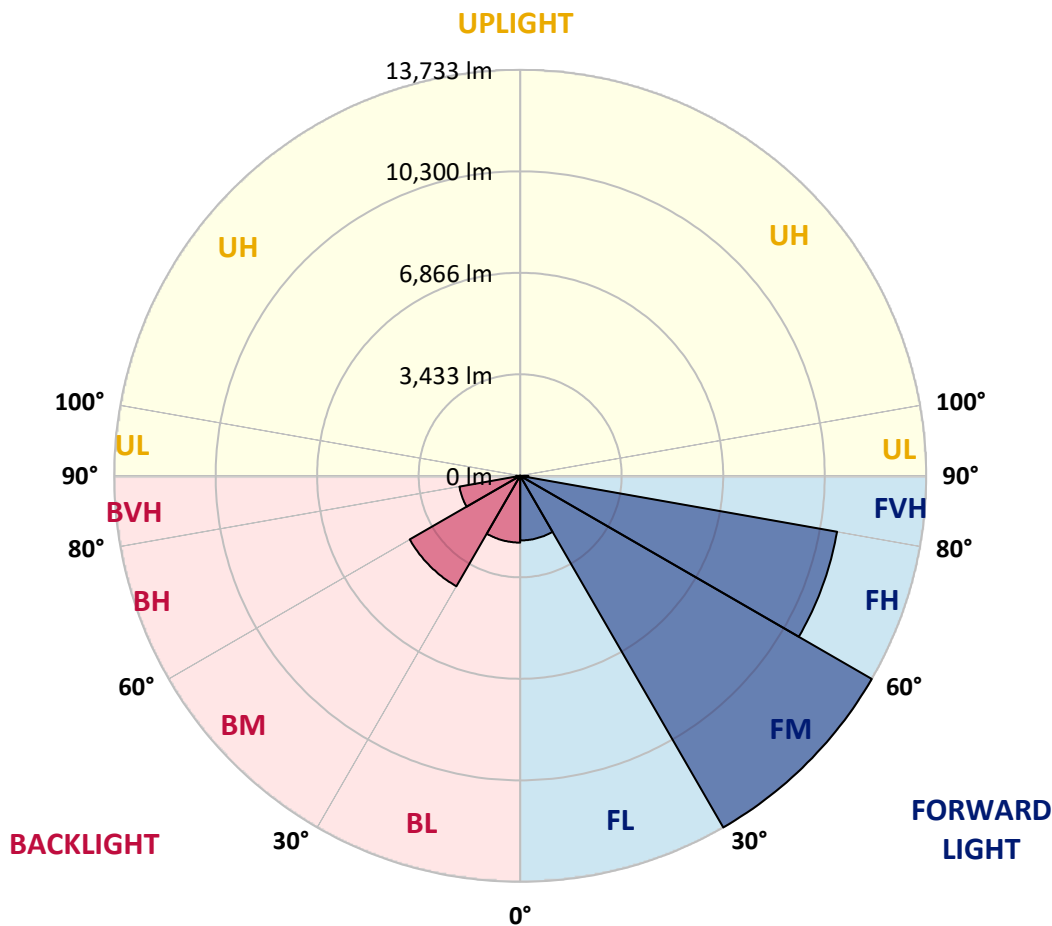
CATALOG NUMBER: ARCH4-270-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.0	6.1			
FM	(30°-60°)	13732.8	38.3			
FH	(60°-80°)	10884.9	30.3			G4/12000
FVH	(80°-90°)	275.5	0.8			G3/500
BL	(0°-30°)	2259.7	6.3	B3/2500		
BM	(30°-60°)	4314.2	12.0	B3/5000		
BH	(60°-80°)	2087.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	134.1	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 III Short



REPORT NUMBER: P1211419

CATALOG NUMBER: ARCH4-270-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5
2.5°	4001.6	3992.4	4015.5	4038.6	4089.5	4149.7	4232.9	4302.3	4311.6	4441.1	4542.9
5°	3765.7	3751.8	3774.9	3802.7	3825.8	3899.8	3987.7	4089.5	4131.2	4320.8	4538.3
7.5°	3788.8	3784.2	3793.4	3784.2	3784.2	3816.6	3876.7	3978.5	4024.8	4251.4	4561.4
10°	3923.0	3932.2	3936.9	3909.1	3881.3	3867.5	3886.0	3955.4	3987.7	4256.1	4663.2
12.5°	4145.0	4158.9	4163.5	4112.6	4075.6	4015.5	3983.1	4010.9	4034.0	4302.3	4806.6
15°	4445.7	4455.0	4422.6	4390.2	4297.7	4223.7	4145.0	4121.9	4131.2	4399.5	4968.5
17.5°	4797.3	4783.4	4783.4	4704.8	4584.5	4468.9	4339.3	4320.8	4320.8	4556.8	5199.8
20°	5181.3	5195.2	5153.5	5047.1	4926.9	4746.4	4616.9	4533.6	4542.9	4737.2	5482.0
22.5°	5736.4	5759.6	5648.5	5495.9	5310.8	5102.6	4917.6	4783.4	4788.1	4973.1	5773.4
25°	6333.2	6342.5	6273.1	6069.5	5819.7	5523.6	5278.4	5107.3	5102.6	5236.8	6148.2
27.5°	6943.9	6985.5	6846.7	6652.4	6421.1	6051.0	5727.2	5495.9	5458.9	5639.3	6615.4
30°	7573.0	7623.9	7489.7	7300.1	7013.2	6698.7	6314.7	6046.4	6023.2	6263.8	7239.9
32.5°	8206.8	8220.7	8114.3	7957.0	7697.9	7401.8	7091.9	6795.8	6772.7	7165.9	8049.5
35°	8724.9	8766.6	8692.5	8655.5	8465.9	8192.9	7892.2	7721.0	7781.2	8285.4	9099.6
37.5°	9349.5	9391.1	9307.8	9298.6	9238.4	9002.5	8794.3	8808.2	8868.3	9553.0	10205.3
40°	10251.6	10297.8	10085.0	9992.5	9992.5	9761.2	9691.8	10020.2	10098.9	10802.1	11357.2
42.5°	11014.9	11088.9	10964.0	10903.8	10723.4	10561.5	10644.8	11107.4	11241.5	11995.6	12361.1
45°	11385.0	11440.5	11588.5	11764.3	11588.5	11306.3	11620.9	12143.6	12333.3	13096.6	13365.0
47.5°	11583.9	11634.8	11805.9	12277.8	12398.1	12162.2	12606.3	13258.6	13388.1	14188.4	14322.6
50°	11611.6	11773.6	11995.6	12467.5	13018.0	13050.4	13596.3	14392.0	14544.6	15261.7	15164.5
52.5°	11385.0	11449.7	11907.7	12703.4	13314.1	13869.2	14674.2	15479.1	15590.1	16270.2	15909.3
55°	11014.9	11107.4	11565.4	12647.9	13600.9	14646.4	15770.6	16547.7	16672.7	17250.9	16598.6
57.5°	10681.8	10728.0	11218.4	12486.0	13887.7	15423.6	16746.7	17662.6	17745.9	18111.4	17107.5
60°	10311.7	10362.6	10853.0	12139.0	14100.5	16011.1	17764.4	18786.8	18860.8	19018.1	17699.7
62.5°	9354.1	9488.2	10103.5	11565.4	14045.0	16681.9	18851.6	19897.1	19989.6	19818.4	18166.9
65°	7596.1	7785.8	8539.9	10265.4	13526.9	17116.8	19739.8	20919.5	21076.7	20419.8	18291.8
67.5°	5898.3	6032.5	6638.5	8146.7	11708.8	16899.3	20313.4	21622.6	21668.9	20322.7	17597.9
68°	5593.0	5727.2	6305.4	7702.5	11204.5	16640.3	20299.6	21641.1	21742.9	20216.3	17329.6
70°	4279.2	4431.9	4982.4	6101.9	9030.2	14993.4	19453.0	21197.0	21183.1	18930.2	15664.2
72.5°	2673.9	2761.8	3141.2	3849.0	5972.4	11408.1	16510.7	18694.3	18731.3	15432.8	12014.1
75°	1697.8	1697.8	1679.3	1864.3	3062.5	6499.7	12273.2	14392.0	14419.7	10806.7	7573.0
77.5°	1475.7	1434.1	1235.2	1045.5	1221.3	2525.9	7263.1	9293.9	9141.3	5819.7	3594.5
80°	1244.4	1175.0	1013.1	842.0	786.4	791.1	2789.6	4718.7	4515.1	2095.6	1193.5
82.5°	897.5	837.3	763.3	661.5	606.0	471.9	582.9	1364.7	1332.3	606.0	388.6
85°	485.7	439.5	430.2	434.9	365.5	291.4	245.2	300.7	300.7	263.7	222.1
87.5°	171.2	124.9	148.0	166.5	143.4	120.3	97.1	115.7	120.3	115.7	106.4
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: P1211419

CATALOG NUMBER: ARCH4-270-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5
2.5°	4603.0	4649.3	4760.3	4857.5	4926.9	4987.0	5019.4	5033.3	5065.6	5070.3	5061.0
5°	4640.0	4760.3	4926.9	5070.3	5148.9	5181.3	5190.5	5195.2	5181.3	5190.5	5181.3
7.5°	4737.2	4889.8	5125.8	5250.7	5264.6	5213.7	5218.3	5199.8	5218.3	5236.8	5236.8
10°	4885.2	5079.5	5301.6	5347.8	5287.7	5259.9	5315.4	5426.5	5463.5	5514.4	5514.4
12.5°	5079.5	5310.8	5468.1	5426.5	5371.0	5463.5	5625.4	5736.4	5773.4	5791.9	5778.1
15°	5301.6	5551.4	5630.0	5491.2	5593.0	5791.9	5847.5	5782.7	5690.2	5648.5	5671.7
17.5°	5583.8	5791.9	5745.7	5653.2	5884.5	5912.2	5731.8	5523.6	5375.6	5320.1	5357.1
20°	5879.8	6060.3	5847.5	5889.1	6032.5	5736.4	5394.1	5125.8	4996.2	4973.1	5010.1
22.5°	6194.4	6310.1	5949.2	6162.0	5949.2	5347.8	4936.1	4797.3	4764.9	4801.9	4834.3
25°	6550.6	6536.8	6125.0	6245.3	5639.3	4871.3	4626.2	4616.9	4616.9	4640.0	4686.3
27.5°	6953.1	6735.7	6300.8	6134.3	5102.6	4478.1	4431.9	4436.5	4422.6	4427.2	4450.4
30°	7420.3	7004.0	6495.1	5768.8	4501.2	4182.0	4163.5	4149.7	4117.3	4108.0	4117.3
32.5°	8007.9	7286.2	6694.0	5167.4	3973.9	3876.7	3867.5	3793.4	3714.8	3705.5	3737.9
35°	8752.7	7799.7	6795.8	4413.3	3539.0	3534.4	3502.0	3386.3	3284.6	3284.6	3261.4
37.5°	9603.9	8461.2	6837.5	3677.8	3178.2	3201.3	3108.8	2960.7	2882.1	2835.8	2849.7
40°	10473.6	9215.3	6832.8	3034.8	2863.6	2868.2	2798.8	2618.4	2424.1	2308.4	2336.2
42.5°	11310.9	9900.0	6712.5	2692.4	2609.1	2595.3	2539.8	2294.6	2132.7	2040.1	2044.8
45°	11981.7	10607.8	6527.5	2488.9	2377.8	2401.0	2276.1	2128.0	1980.0	1896.7	1892.1
47.5°	12652.5	11144.4	6231.4	2364.0	2206.7	2165.0	2114.2	2012.4	1901.3	1808.8	1813.5
50°	13263.2	11602.4	5953.9	2280.7	2049.4	1943.0	1952.2	1892.1	1794.9	1711.7	1707.1
52.5°	13693.4	11903.1	5801.2	2234.4	1859.7	1744.1	1776.4	1744.1	1651.5	1591.4	1586.8
55°	14123.6	12134.4	5852.1	2174.3	1651.5	1559.0	1614.5	1605.3	1554.4	1535.9	1540.5
57.5°	14470.6	12310.2	6032.5	2063.3	1452.6	1397.1	1489.6	1461.9	1424.9	1429.5	1429.5
60°	14808.3	12536.9	6245.3	1808.8	1281.4	1286.1	1374.0	1323.1	1299.9	1341.6	1346.2
62.5°	15159.9	12782.1	6069.5	1438.7	1133.4	1165.8	1267.6	1225.9	1235.2	1295.3	1313.8
65°	15118.3	12758.9	4945.4	1179.7	1003.9	1068.6	1221.3	1207.4	1212.1	1235.2	1244.4
67.5°	14267.1	11944.7	3400.2	1003.9	911.4	990.0	1184.3	1128.8	1133.4	1119.5	1124.2
68°	13980.2	11657.9	2997.7	976.1	892.8	971.5	1165.8	1114.9	1119.5	1105.7	1101.0
70°	12416.6	9983.2	1896.7	860.5	828.1	920.6	1073.3	1054.8	1050.1	1040.9	1040.9
72.5°	9465.1	7369.5	999.2	744.8	754.1	842.0	957.6	994.6	971.5	976.1	1003.9
75°	6268.4	4431.9	693.9	638.4	661.5	721.7	851.2	925.2	902.1	916.0	902.1
77.5°	3317.0	2387.1	555.1	541.3	541.3	582.9	703.2	818.8	818.8	809.6	795.7
80°	1087.1	842.0	444.1	425.6	434.9	458.0	564.4	670.8	684.7	666.2	656.9
82.5°	365.5	388.6	333.1	310.0	319.2	337.7	425.6	513.5	518.1	481.1	471.9
85°	226.7	259.1	208.2	203.6	203.6	208.2	259.1	282.2	259.1	231.3	240.6
87.5°	106.4	129.5	97.1	83.3	69.4	60.1	46.3	18.5	18.5	9.3	9.3
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)