

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: P1211483

Luminaire Tested: **ARCH4-290-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211483
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: ARCH4-290-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38208 lumens
Efficiency: N/A
Efficacy: 131.9 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): 289.7
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



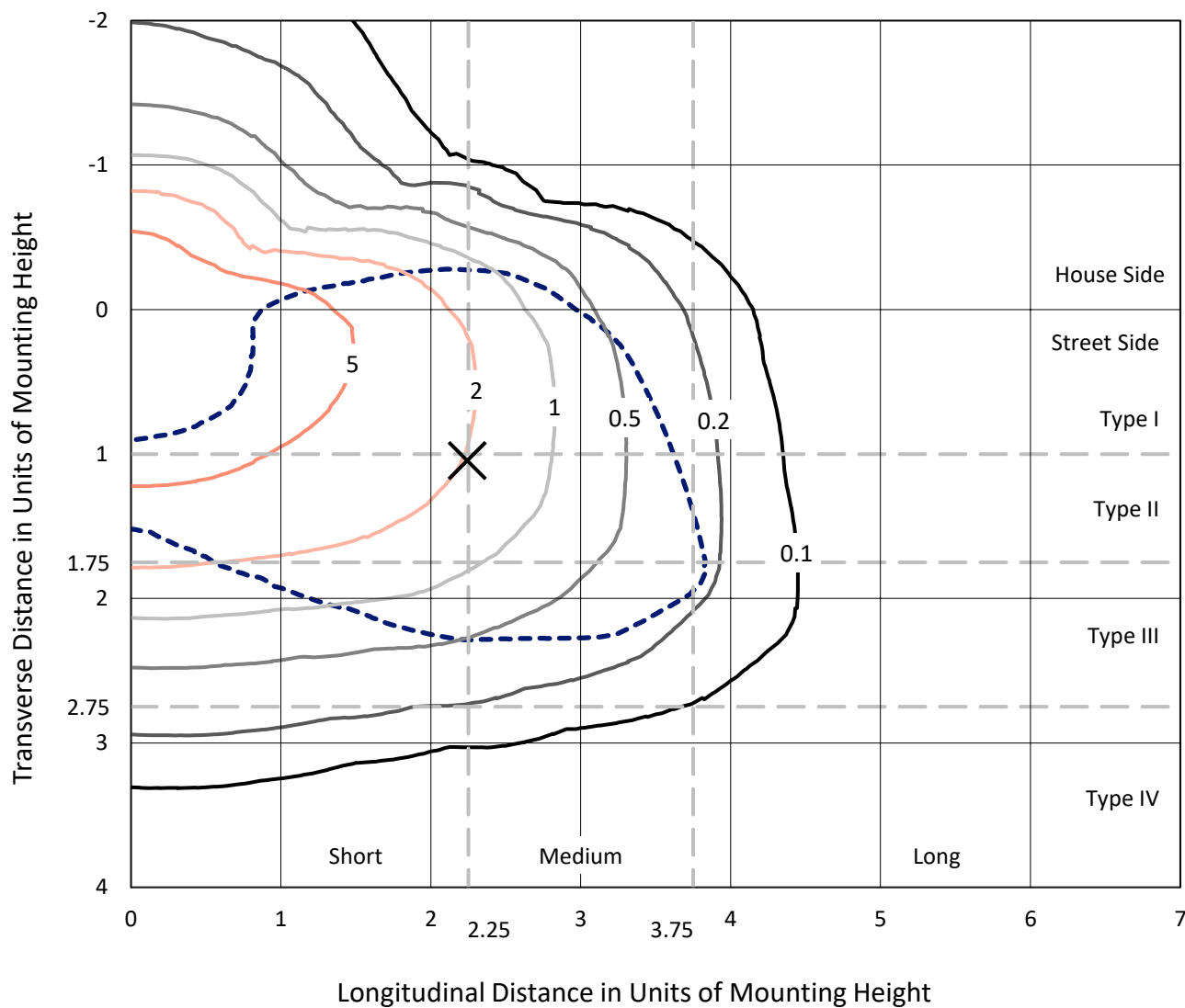
REPORT NUMBER: P1211483

CATALOG NUMBER: ARCH4-290-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

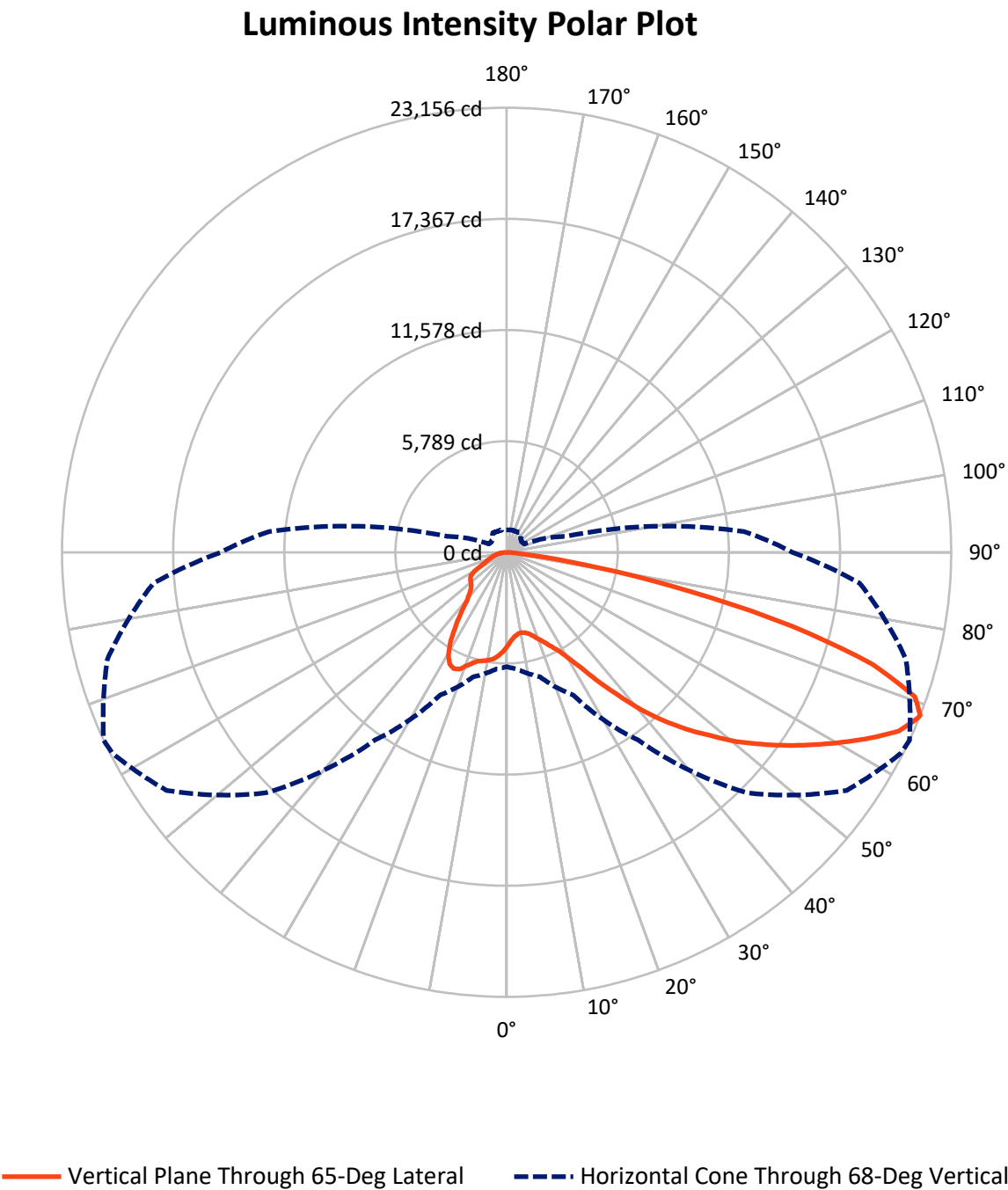
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1211483
CATALOG NUMBER: ARCH4-290-727-U-T3RE



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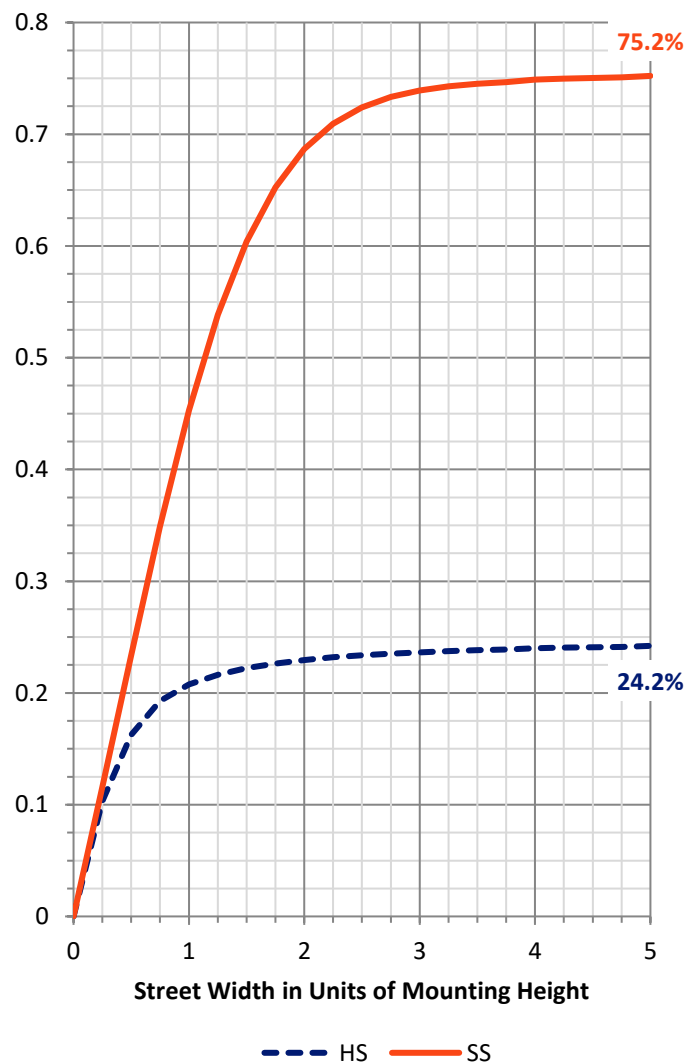
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9367.5	0.0	9367.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	28840.5	0.0	28840.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	38208.0	0.0	38208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.2
10°-20°	1519.3	4.0
20°-30°	2749.8	7.2
30°-40°	4325.8	11.3
40°-50°	6442.8	16.9
50°-60°	8451.6	22.1
60°-70°	9242.4	24.2
70°-80°	4573.4	12.0
80°-90°	436.3	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°	38208.0	100.0
0°-180°	38208.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211483

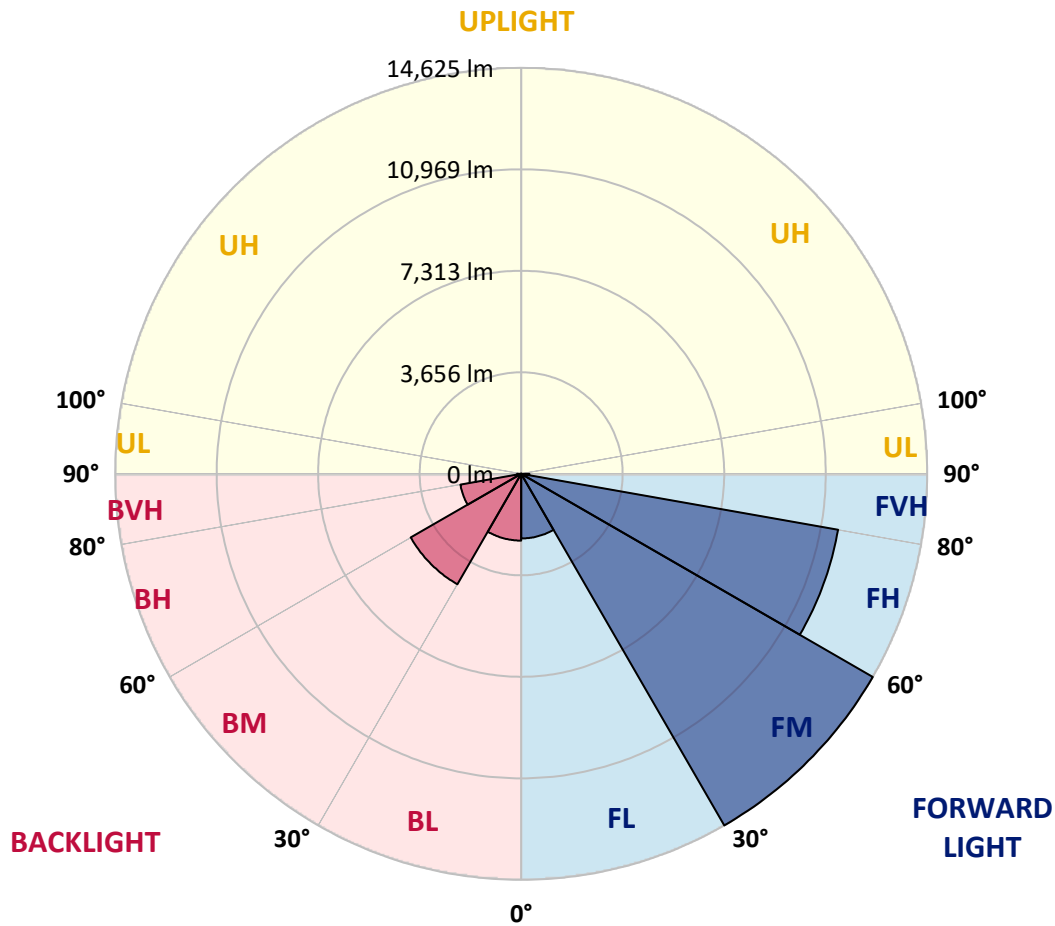
CATALOG NUMBER: ARCH4-290-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2329.2	6.1			
FM	(30°-60°)	14625.5	38.3			
FH	(60°-80°)	11592.4	30.3			G4/12000
FVH	(80°-90°)	293.4	0.8			G3/500
BL	(0°-30°)	2406.6	6.3	B3/2500		
BM	(30°-60°)	4594.7	12.0	B3/5000		
BH	(60°-80°)	2223.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	142.8	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 III Short



REPORT NUMBER: P1211483

CATALOG NUMBER: ARCH4-290-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5
2.5°	4261.7	4251.9	4276.5	4301.1	4355.3	4419.4	4508.1	4582.0	4591.8	4729.8	4838.2
5°	4010.5	3995.7	4020.3	4049.9	4074.5	4153.3	4247.0	4355.3	4399.7	4601.7	4833.2
7.5°	4035.1	4030.2	4040.0	4030.2	4030.2	4064.7	4128.7	4237.1	4286.4	4527.8	4857.9
10°	4178.0	4187.8	4192.8	4163.2	4133.6	4118.9	4138.6	4212.5	4247.0	4532.7	4966.3
12.5°	4414.5	4429.2	4434.2	4380.0	4340.6	4276.5	4242.0	4271.6	4296.2	4582.0	5119.0
15°	4734.7	4744.6	4710.1	4675.6	4577.1	4498.2	4414.5	4389.8	4399.7	4685.4	5291.4
17.5°	5109.2	5094.4	5094.4	5010.6	4882.5	4759.3	4621.4	4601.7	4601.7	4853.0	5537.8
20°	5518.1	5532.9	5488.5	5375.2	5247.1	5055.0	4917.0	4828.3	4838.2	5045.1	5838.3
22.5°	6109.3	6133.9	6015.7	5853.1	5656.0	5434.3	5237.3	5094.4	5099.3	5296.4	6148.7
25°	6744.9	6754.7	6680.8	6464.0	6198.0	5882.7	5621.5	5439.3	5434.3	5577.2	6547.8
27.5°	7395.2	7439.6	7291.8	7084.8	6838.5	6444.3	6099.5	5853.1	5813.7	6005.8	7045.4
30°	8065.3	8119.5	7976.6	7774.6	7469.1	7134.1	6725.2	6439.4	6414.8	6671.0	7710.5
32.5°	8740.2	8755.0	8641.7	8474.2	8198.3	7883.0	7552.9	7237.6	7212.9	7631.7	8572.7
35°	9292.1	9336.4	9257.6	9218.2	9016.2	8725.5	8405.2	8222.9	8287.0	8824.0	9691.1
37.5°	9957.2	10001.5	9912.8	9903.0	9838.9	9587.7	9366.0	9380.7	9444.8	10174.0	10868.7
40°	10917.9	10967.2	10740.6	10642.0	10642.0	10395.7	10321.8	10671.6	10755.3	11504.2	12095.4
42.5°	11730.9	11809.7	11676.7	11612.6	11420.5	11248.0	11336.7	11829.4	11972.3	12775.3	13164.6
45°	12125.0	12184.1	12341.8	12529.0	12341.8	12041.2	12376.3	12933.0	13135.0	13947.9	14233.7
47.5°	12336.9	12391.1	12573.3	13075.9	13204.0	12952.7	13425.7	14120.4	14258.3	15110.7	15253.6
50°	12366.4	12538.9	12775.3	13277.9	13864.2	13898.7	14480.0	15327.5	15490.0	16253.7	16150.2
52.5°	12125.0	12194.0	12681.7	13529.2	14179.5	14770.7	15628.0	16485.3	16603.5	17327.8	16943.5
55°	11730.9	11829.4	12317.1	13470.0	14485.0	15598.4	16795.7	17623.4	17756.4	18372.3	17677.6
57.5°	11376.1	11425.4	11947.6	13297.6	14790.4	16426.1	17835.2	18810.7	18899.4	19288.7	18219.5
60°	10982.0	11036.2	11558.4	12928.1	15017.1	17051.9	18919.1	20008.0	20086.8	20254.3	18850.2
62.5°	9962.1	10105.0	10760.3	12317.1	14957.9	17766.3	20077.0	21190.4	21289.0	21106.7	19347.8
65°	8089.9	8291.9	9095.0	10932.7	14406.1	18229.4	21022.9	22279.3	22446.8	21747.2	19480.8
67.5°	6281.7	6424.6	7070.0	8676.2	12469.9	17997.8	21633.8	23028.1	23077.4	21643.7	18741.8
68°	5956.6	6099.5	6715.3	8203.2	11932.9	17721.9	21619.1	23047.8	23156.2	21530.4	18456.0
70°	4557.3	4719.9	5306.2	6498.5	9617.2	15968.0	20717.4	22574.9	22560.1	20160.7	16682.3
72.5°	2847.7	2941.3	3345.3	4099.1	6360.6	12149.6	17584.0	19909.4	19948.9	16436.0	12795.1
75°	1808.2	1808.2	1788.5	1985.5	3261.6	6922.2	13071.0	15327.5	15357.0	11509.1	8065.3
77.5°	1571.7	1527.3	1315.5	1113.5	1300.7	2690.1	7735.2	9898.1	9735.5	6198.0	3828.2
80°	1325.3	1251.4	1079.0	896.7	837.6	842.5	2970.9	5025.4	4808.6	2231.9	1271.1
82.5°	955.8	891.8	812.9	704.5	645.4	502.5	620.8	1453.4	1418.9	645.4	413.9
85°	517.3	468.1	458.2	463.1	389.2	310.4	261.1	320.2	320.2	280.8	236.5
87.5°	182.3	133.0	157.7	177.4	152.7	128.1	103.5	123.2	128.1	123.2	113.3
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: P1211483

CATALOG NUMBER: ARCH4-290-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5	4882.5
2.5°	4902.2	4951.5	5069.7	5173.2	5247.1	5311.2	5345.6	5360.4	5394.9	5399.8	5390.0
5°	4941.6	5069.7	5247.1	5399.8	5483.6	5518.1	5527.9	5532.9	5518.1	5527.9	5518.1
7.5°	5045.1	5207.7	5459.0	5592.0	5606.8	5552.6	5557.5	5537.8	5557.5	5577.2	5577.2
10°	5202.8	5409.7	5646.2	5695.4	5631.4	5601.8	5661.0	5779.2	5818.6	5872.8	5872.8
12.5°	5409.7	5656.0	5823.5	5779.2	5720.1	5818.6	5991.1	6109.3	6148.7	6168.4	6153.6
15°	5646.2	5912.2	5996.0	5848.2	5956.6	6168.4	6227.6	6158.6	6060.0	6015.7	6040.3
17.5°	5946.7	6168.4	6119.2	6020.6	6267.0	6296.5	6104.4	5882.7	5725.0	5665.9	5705.3
20°	6262.0	6454.2	6227.6	6271.9	6424.6	6109.3	5744.7	5459.0	5321.0	5296.4	5335.8
22.5°	6597.1	6720.2	6335.9	6562.6	6335.9	5695.4	5257.0	5109.2	5074.7	5114.1	5148.6
25°	6976.4	6961.7	6523.2	6651.3	6005.8	5188.0	4926.9	4917.0	4917.0	4941.6	4990.9
27.5°	7405.1	7173.5	6710.4	6533.0	5434.3	4769.2	4719.9	4724.9	4710.1	4715.0	4739.6
30°	7902.7	7459.3	6917.3	6143.8	4793.8	4453.9	4434.2	4419.4	4384.9	4375.1	4384.9
32.5°	8528.4	7759.8	7129.2	5503.3	4232.2	4128.7	4118.9	4040.0	3956.3	3946.4	3980.9
35°	9321.6	8306.7	7237.6	4700.2	3769.0	3764.1	3729.6	3606.5	3498.1	3498.1	3473.4
37.5°	10228.2	9011.2	7281.9	3916.9	3384.8	3409.4	3310.8	3153.2	3069.4	3020.2	3034.9
40°	11154.4	9814.3	7277.0	3232.0	3049.7	3054.7	2980.8	2788.6	2581.7	2458.5	2488.1
42.5°	12046.2	10543.5	7148.9	2867.4	2778.7	2764.0	2704.8	2443.7	2271.3	2172.7	2177.7
45°	12760.6	11297.3	6951.8	2650.7	2532.4	2557.0	2424.0	2266.4	2108.7	2020.0	2015.1
47.5°	13475.0	11868.8	6636.5	2517.6	2350.1	2305.8	2251.6	2143.2	2024.9	1926.4	1931.3
50°	14125.3	12356.6	6340.9	2428.9	2182.6	2069.3	2079.1	2015.1	1911.6	1822.9	1818.0
52.5°	14583.5	12676.8	6178.3	2379.7	1980.6	1857.4	1891.9	1857.4	1758.9	1694.8	1689.9
55°	15041.7	12923.2	6232.5	2315.6	1758.9	1660.4	1719.5	1709.6	1655.4	1635.7	1640.6
57.5°	15411.2	13110.4	6424.6	2197.4	1547.0	1487.9	1586.4	1556.9	1517.5	1522.4	1522.4
60°	15770.9	13351.8	6651.3	1926.4	1364.7	1369.7	1463.3	1409.1	1384.4	1428.8	1433.7
62.5°	16145.3	13612.9	6464.0	1532.3	1207.1	1241.6	1350.0	1305.6	1315.5	1379.5	1399.2
65°	16101.0	13588.3	5266.8	1256.3	1069.1	1138.1	1300.7	1285.9	1290.8	1315.5	1325.3
67.5°	15194.4	12721.2	3621.2	1069.1	970.6	1054.3	1261.3	1202.2	1207.1	1192.3	1197.2
68°	14889.0	12415.7	3192.6	1039.6	950.9	1034.6	1241.6	1187.4	1192.3	1177.5	1172.6
70°	13223.7	10632.2	2020.0	916.4	881.9	980.4	1143.0	1123.3	1118.4	1108.5	1108.5
72.5°	10080.4	7848.5	1064.2	793.2	803.1	896.7	1019.9	1059.3	1034.6	1039.6	1069.1
75°	6675.9	4719.9	739.0	679.9	704.5	768.6	906.5	985.4	960.7	975.5	960.7
77.5°	3532.6	2542.3	591.2	576.4	576.4	620.8	748.9	872.1	872.1	862.2	847.4
80°	1157.8	896.7	473.0	453.3	463.1	487.8	601.1	714.4	729.2	709.5	699.6
82.5°	389.2	413.9	354.7	330.1	340.0	359.7	453.3	546.9	551.8	512.4	502.5
85°	241.4	275.9	221.7	216.8	216.8	221.7	275.9	300.5	275.9	246.3	256.2
87.5°	113.3	138.0	103.5	88.7	73.9	64.0	49.3	19.7	19.7	9.9	9.9
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)