

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: P1211479

Luminaire Tested: **ARCH4-290-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211479
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: ARCH4-290-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34644 lumens
Efficiency: N/A
Efficacy: 119.6 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



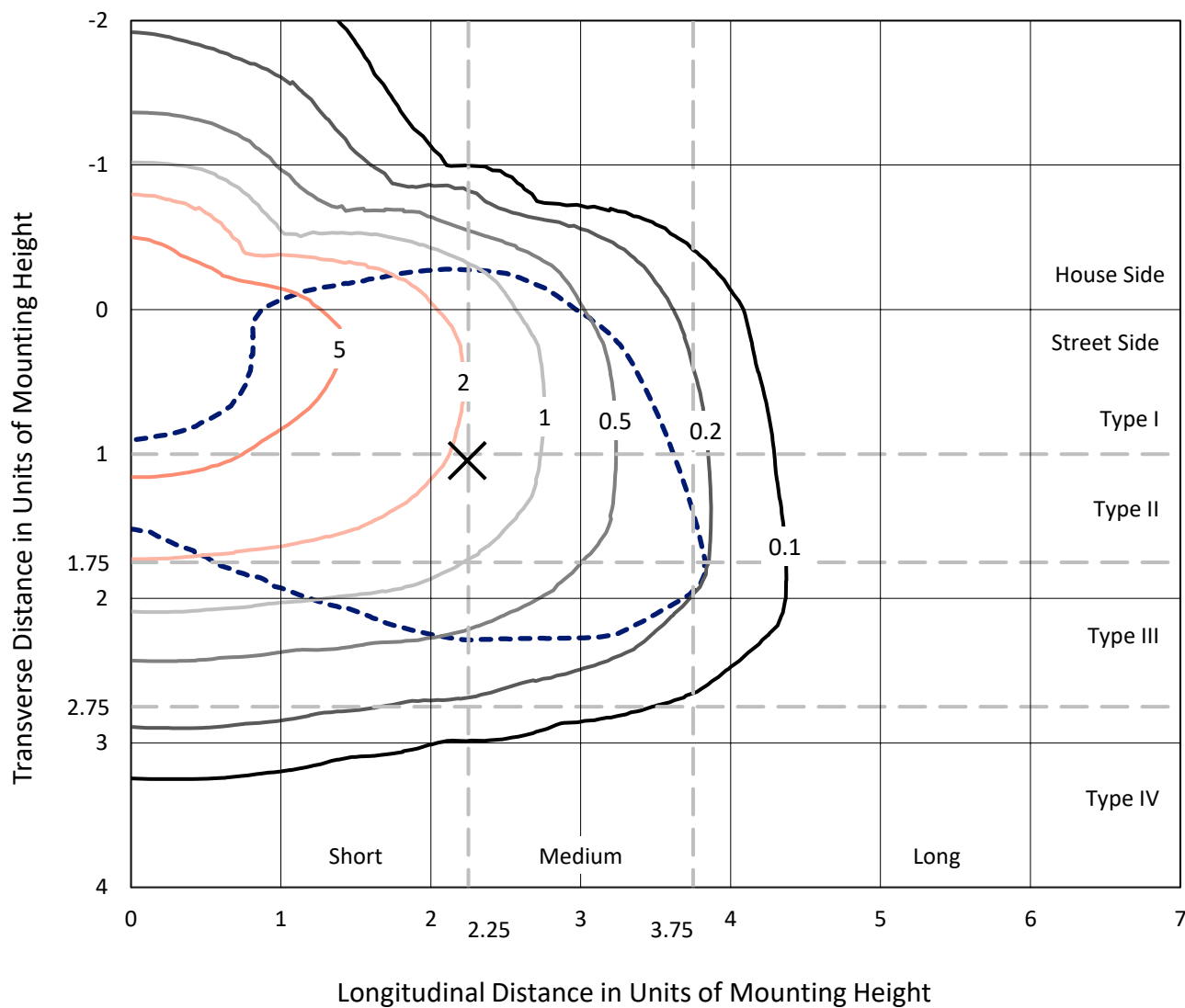
REPORT NUMBER: P1211479

CATALOG NUMBER: ARCH4-290-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

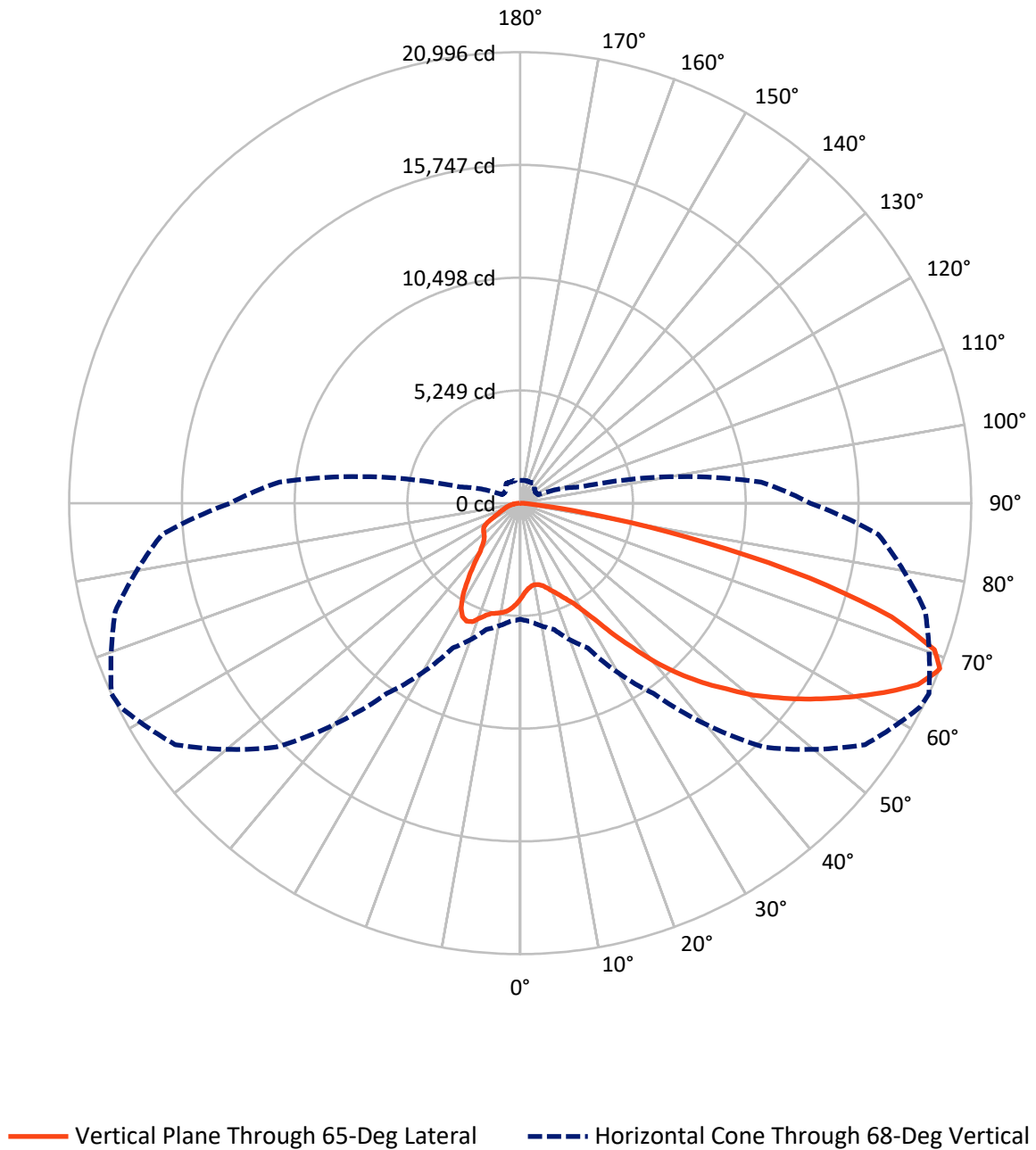


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1211479

CATALOG NUMBER: ARCH4-290-722-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211479

CATALOG NUMBER: ARCH4-290-722-U-T3RE

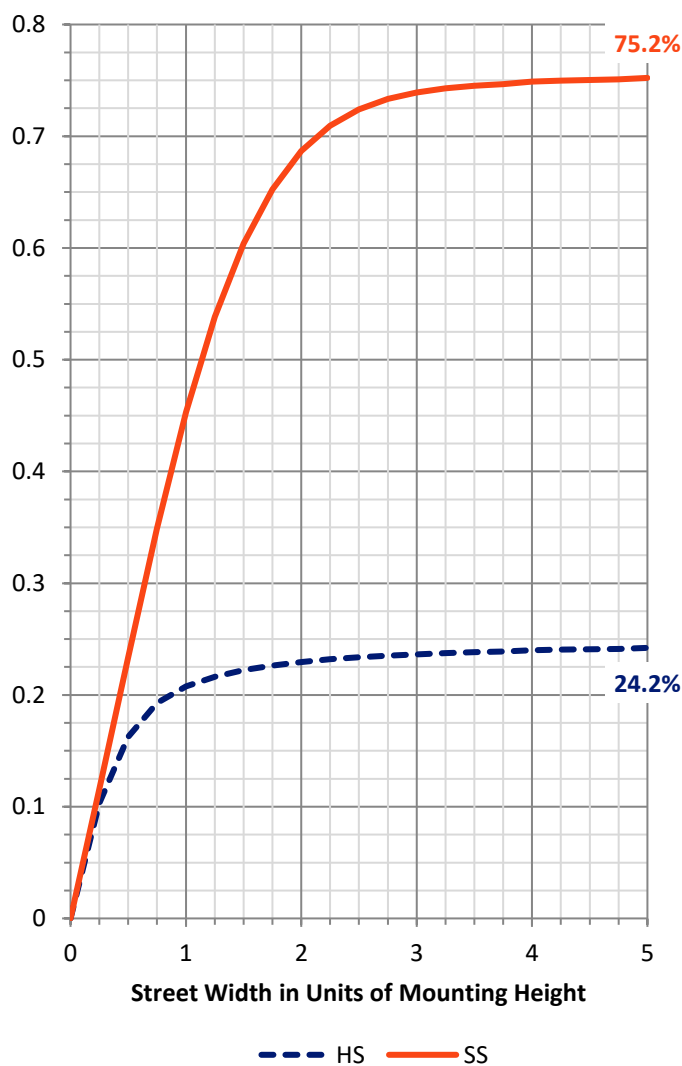
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8493.7	0.0	8493.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	26150.3	0.0	26150.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	34644.0	0.0	34644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.2
10°-20°	1377.6	4.0
20°-30°	2493.3	7.2
30°-40°	3922.3	11.3
40°-50°	5841.8	16.9
50°-60°	7663.3	22.1
60°-70°	8380.3	24.2
70°-80°	4146.8	12.0
80°-90°	395.6	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°	34644.0	100.0
0°-180°	34644.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211479

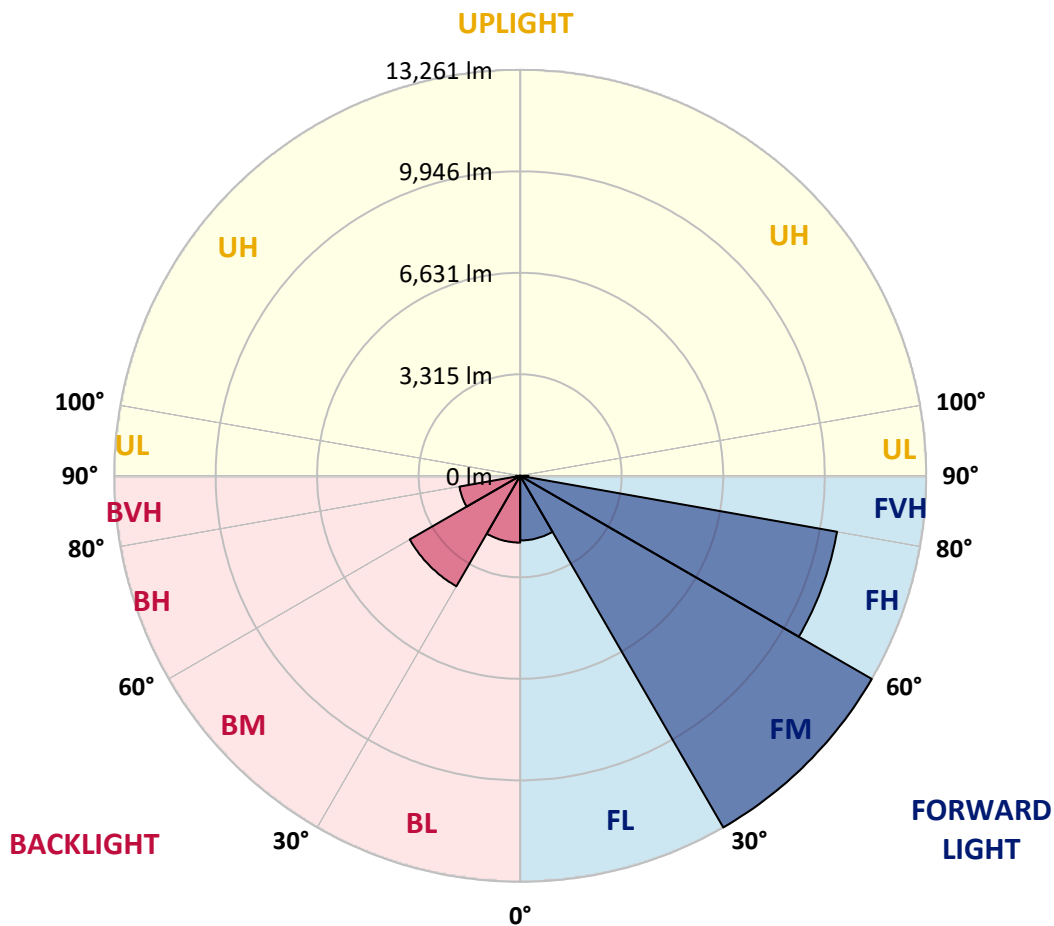
CATALOG NUMBER: ARCH4-290-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.9	6.1			
FM	(30°-60°)	13261.2	38.3			
FH	(60°-80°)	10511.1	30.3			G4/12000
FVH	(80°-90°)	266.0	0.8			G3/500
BL	(0°-30°)	2182.1	6.3	B3/2500		
BM	(30°-60°)	4166.1	12.0	B3/5000		
BH	(60°-80°)	2016.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	129.5	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: P1211479

CATALOG NUMBER: ARCH4-290-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1
2.5°	3864.2	3855.3	3877.6	3899.9	3949.1	4007.2	4087.6	4154.6	4163.5	4288.6	4386.9
5°	3636.4	3623.0	3645.3	3672.1	3694.4	3765.9	3850.8	3949.1	3989.3	4172.4	4382.4
7.5°	3658.7	3654.2	3663.2	3654.2	3654.2	3685.5	3743.6	3841.9	3886.5	4105.4	4404.7
10°	3788.3	3797.2	3801.7	3774.9	3748.1	3734.7	3752.5	3819.5	3850.8	4109.9	4503.0
12.5°	4002.7	4016.1	4020.6	3971.4	3935.7	3877.6	3846.3	3873.1	3895.5	4154.6	4641.5
15°	4293.1	4302.0	4270.7	4239.5	4150.1	4078.6	4002.7	3980.4	3989.3	4248.4	4797.9
17.5°	4632.6	4619.2	4619.2	4543.2	4427.1	4315.4	4190.3	4172.4	4172.4	4400.3	5021.2
20°	5003.4	5016.8	4976.6	4873.8	4757.7	4583.4	4458.4	4377.9	4386.9	4574.5	5293.7
22.5°	5539.4	5561.8	5454.6	5307.1	5128.4	4927.4	4748.7	4619.2	4623.6	4802.3	5575.2
25°	6115.7	6124.7	6057.6	5861.1	5619.8	5333.9	5097.2	4931.9	4927.4	5057.0	5937.0
27.5°	6705.4	6745.6	6611.6	6424.0	6200.6	5843.2	5530.5	5307.1	5271.4	5445.6	6388.2
30°	7312.9	7362.1	7232.5	7049.4	6772.4	6468.6	6097.8	5838.7	5816.4	6048.7	6991.3
32.5°	7925.0	7938.4	7835.6	7683.7	7433.6	7147.7	6848.4	6562.4	6540.1	6919.8	7773.1
35°	8425.3	8465.5	8394.0	8358.3	8175.1	7911.6	7621.2	7455.9	7514.0	8000.9	8787.2
37.5°	9028.4	9068.6	8988.2	8979.2	8921.2	8693.3	8492.3	8505.7	8563.8	9224.9	9854.8
40°	9899.5	9944.2	9738.7	9649.3	9649.3	9426.0	9359.0	9676.1	9752.1	10431.1	10967.2
42.5°	10636.6	10708.1	10587.5	10529.4	10355.2	10198.8	10279.2	10726.0	10855.5	11583.7	11936.6
45°	10994.0	11047.6	11190.6	11360.3	11190.6	10918.1	11221.8	11726.6	11909.8	12646.9	12906.0
47.5°	11186.1	11235.2	11400.5	11856.2	11972.3	11744.5	12173.4	12803.2	12928.3	13701.2	13830.7
50°	11212.9	11369.2	11583.7	12039.3	12570.9	12602.2	13129.4	13897.7	14045.2	14737.6	14643.8
52.5°	10994.0	11056.5	11498.8	12267.2	12856.9	13392.9	14170.2	14947.5	15054.8	15711.5	15363.0
55°	10636.6	10726.0	11168.2	12213.6	13133.8	14143.4	15229.0	15979.5	16100.1	16658.5	16028.6
57.5°	10315.0	10359.6	10833.2	12057.2	13410.8	14893.9	16171.6	17056.1	17136.5	17489.4	16520.0
60°	9957.6	10006.7	10480.3	11722.2	13616.3	15461.3	17154.4	18141.7	18213.1	18365.0	17091.8
62.5°	9032.9	9162.4	9756.6	11168.2	13562.7	16109.0	18204.2	19213.8	19303.1	19137.9	17543.0
65°	7335.3	7518.4	8246.6	9912.9	13062.3	16529.0	19061.9	20201.1	20353.0	19718.6	17663.7
67.5°	5695.8	5825.3	6410.6	7866.9	11306.7	16319.0	19615.9	20880.1	20924.8	19624.8	16993.6
68°	5401.0	5530.5	6088.9	7438.0	10819.8	16068.8	19602.5	20898.0	20996.3	19522.0	16734.5
70°	4132.2	4279.7	4811.3	5892.4	8720.1	14478.5	18784.9	20469.1	20455.7	18280.1	15126.2
72.5°	2582.1	2667.0	3033.3	3716.8	5767.3	11016.3	15943.7	18052.3	18088.0	14902.9	11601.5
75°	1639.5	1639.5	1621.6	1800.3	2957.3	6276.5	11851.7	13897.7	13924.5	10435.6	7312.9
77.5°	1425.1	1384.9	1192.8	1009.6	1179.4	2439.1	7013.6	8974.8	8827.4	5619.8	3471.1
80°	1201.7	1134.7	978.3	813.0	759.4	763.9	2693.8	4556.6	4360.1	2023.7	1152.6
82.5°	866.7	808.6	737.1	638.8	585.2	455.7	562.9	1317.8	1286.6	585.2	375.3
85°	469.1	424.4	415.5	419.9	352.9	281.4	236.8	290.4	290.4	254.6	214.4
87.5°	165.3	120.6	143.0	160.8	138.5	116.1	93.8	111.7	116.1	111.7	102.7
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: P1211479

CATALOG NUMBER: ARCH4-290-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1	4427.1
2.5°	4445.0	4489.6	4596.8	4690.7	4757.7	4815.7	4847.0	4860.4	4891.7	4896.1	4887.2
5°	4480.7	4596.8	4757.7	4896.1	4972.1	5003.4	5012.3	5016.8	5003.4	5012.3	5003.4
7.5°	4574.5	4721.9	4949.8	5070.4	5083.8	5034.6	5039.1	5021.2	5039.1	5057.0	5057.0
10°	4717.5	4905.1	5119.5	5164.2	5106.1	5079.3	5132.9	5240.1	5275.9	5325.0	5325.0
12.5°	4905.1	5128.4	5280.3	5240.1	5186.5	5275.9	5432.2	5539.4	5575.2	5593.0	5579.6
15°	5119.5	5360.7	5436.7	5302.7	5401.0	5593.0	5646.7	5584.1	5494.8	5454.6	5476.9
17.5°	5392.0	5593.0	5548.4	5459.0	5682.4	5709.2	5535.0	5333.9	5191.0	5137.4	5173.1
20°	5677.9	5852.1	5646.7	5686.9	5825.3	5539.4	5208.9	4949.8	4824.7	4802.3	4838.1
22.5°	5981.7	6093.4	5744.9	5950.4	5744.9	5164.2	4766.6	4632.6	4601.3	4637.0	4668.3
25°	6325.7	6312.3	5914.7	6030.8	5445.6	4704.1	4467.3	4458.4	4458.4	4480.7	4525.4
27.5°	6714.3	6504.4	6084.4	5923.6	4927.4	4324.3	4279.7	4284.1	4270.7	4275.2	4297.5
30°	7165.5	6763.5	6272.1	5570.7	4346.7	4038.4	4020.6	4007.2	3975.9	3967.0	3975.9
32.5°	7732.9	7036.0	6464.2	4990.0	3837.4	3743.6	3734.7	3663.2	3587.2	3578.3	3609.6
35°	8452.1	7531.8	6562.4	4261.8	3417.5	3413.0	3381.7	3270.1	3171.8	3171.8	3149.4
37.5°	9274.1	8170.7	6602.7	3551.5	3069.0	3091.4	3002.0	2859.1	2783.1	2738.4	2751.8
40°	10113.9	8898.8	6598.2	2930.5	2765.3	2769.7	2702.7	2528.5	2340.9	2229.2	2256.0
42.5°	10922.5	9560.0	6482.0	2600.0	2519.6	2506.1	2452.5	2215.8	2059.4	1970.1	1974.5
45°	11570.3	10243.5	6303.3	2403.4	2296.2	2318.5	2197.9	2055.0	1912.0	1831.6	1827.1
47.5°	12218.0	10761.7	6017.4	2282.8	2130.9	2090.7	2041.6	1943.3	1836.1	1746.7	1751.2
50°	12807.7	11204.0	5749.4	2202.4	1979.0	1876.3	1885.2	1827.1	1733.3	1652.9	1648.4
52.5°	13223.2	11494.3	5602.0	2157.7	1795.8	1684.2	1715.4	1684.2	1594.8	1536.7	1532.3
55°	13638.6	11717.7	5651.1	2099.6	1594.8	1505.5	1559.1	1550.1	1501.0	1483.1	1487.6
57.5°	13973.7	11887.5	5825.3	1992.4	1402.7	1349.1	1438.5	1411.7	1375.9	1380.4	1380.4
60°	14299.8	12106.3	6030.8	1746.7	1237.4	1241.9	1326.8	1277.6	1255.3	1295.5	1300.0
62.5°	14639.3	12343.1	5861.1	1389.3	1094.5	1125.8	1224.0	1183.8	1192.8	1250.8	1268.7
65°	14599.1	12320.8	4775.5	1139.2	969.4	1031.9	1179.4	1166.0	1170.4	1192.8	1201.7
67.5°	13777.1	11534.5	3283.5	969.4	880.1	956.0	1143.6	1090.0	1094.5	1081.1	1085.6
68°	13500.1	11257.6	2894.8	942.6	862.2	938.1	1125.8	1076.6	1081.1	1067.7	1063.2
70°	11990.2	9640.4	1831.6	830.9	799.6	889.0	1036.4	1018.5	1014.1	1005.1	1005.1
72.5°	9140.1	7116.4	964.9	719.2	728.2	813.0	924.7	960.5	938.1	942.6	969.4
75°	6053.2	4279.7	670.1	616.5	638.8	696.9	822.0	893.5	871.1	884.5	871.1
77.5°	3203.0	2305.1	536.1	522.7	522.7	562.9	679.0	790.7	790.7	781.8	768.4
80°	1049.8	813.0	428.9	411.0	419.9	442.3	545.0	647.8	661.2	643.3	634.4
82.5°	352.9	375.3	321.6	299.3	308.2	326.1	411.0	495.9	500.3	464.6	455.7
85°	218.9	250.2	201.0	196.6	196.6	201.0	250.2	272.5	250.2	223.4	232.3
87.5°	102.7	125.1	93.8	80.4	67.0	58.1	44.7	17.9	17.9	8.9	8.9
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)