

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: P1211177

Luminaire Tested: **ARCH4-190-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211177
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: ARCH4-190-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30321 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 190
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



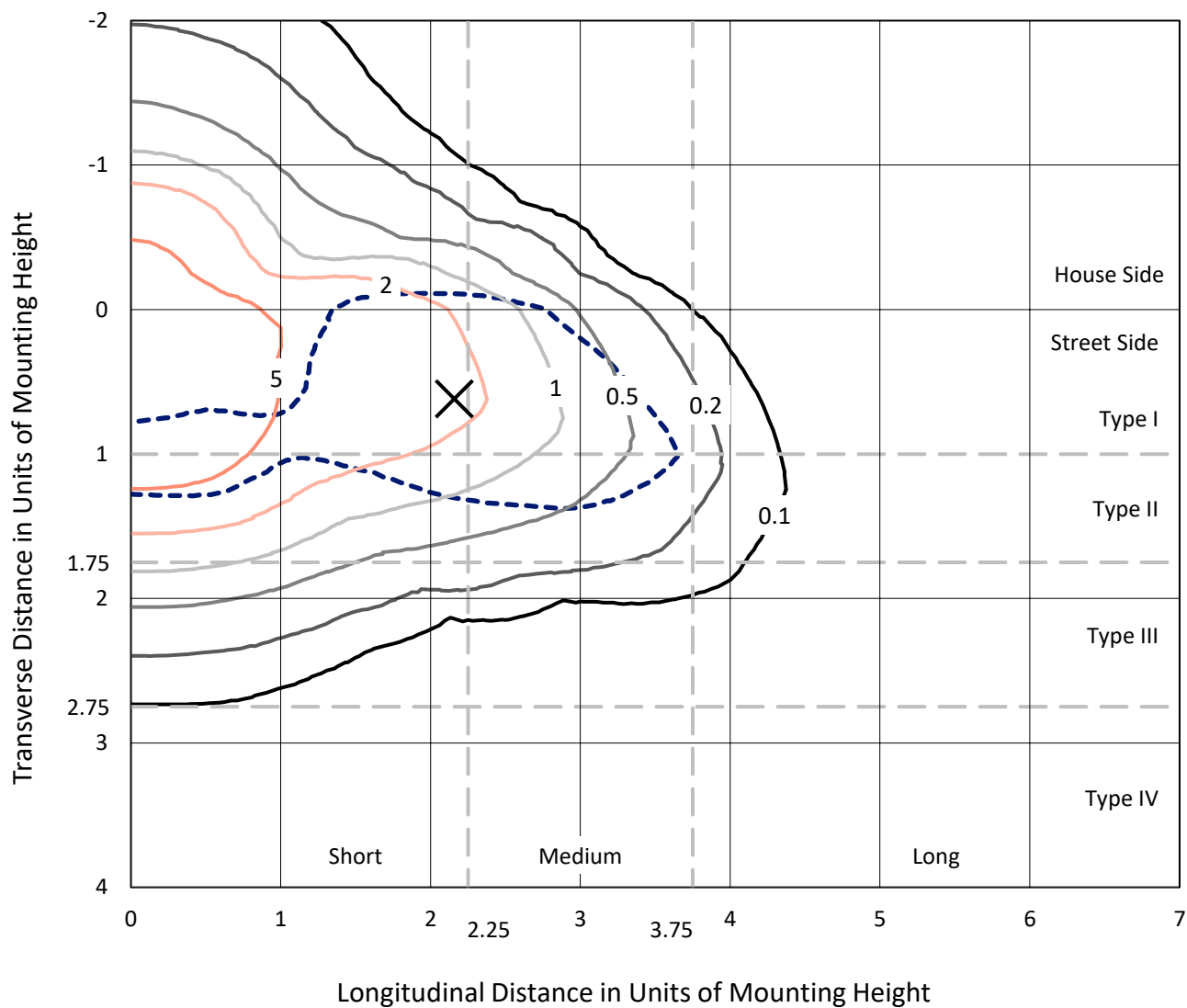
REPORT NUMBER: P1211177

CATALOG NUMBER: ARCH4-190-750-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

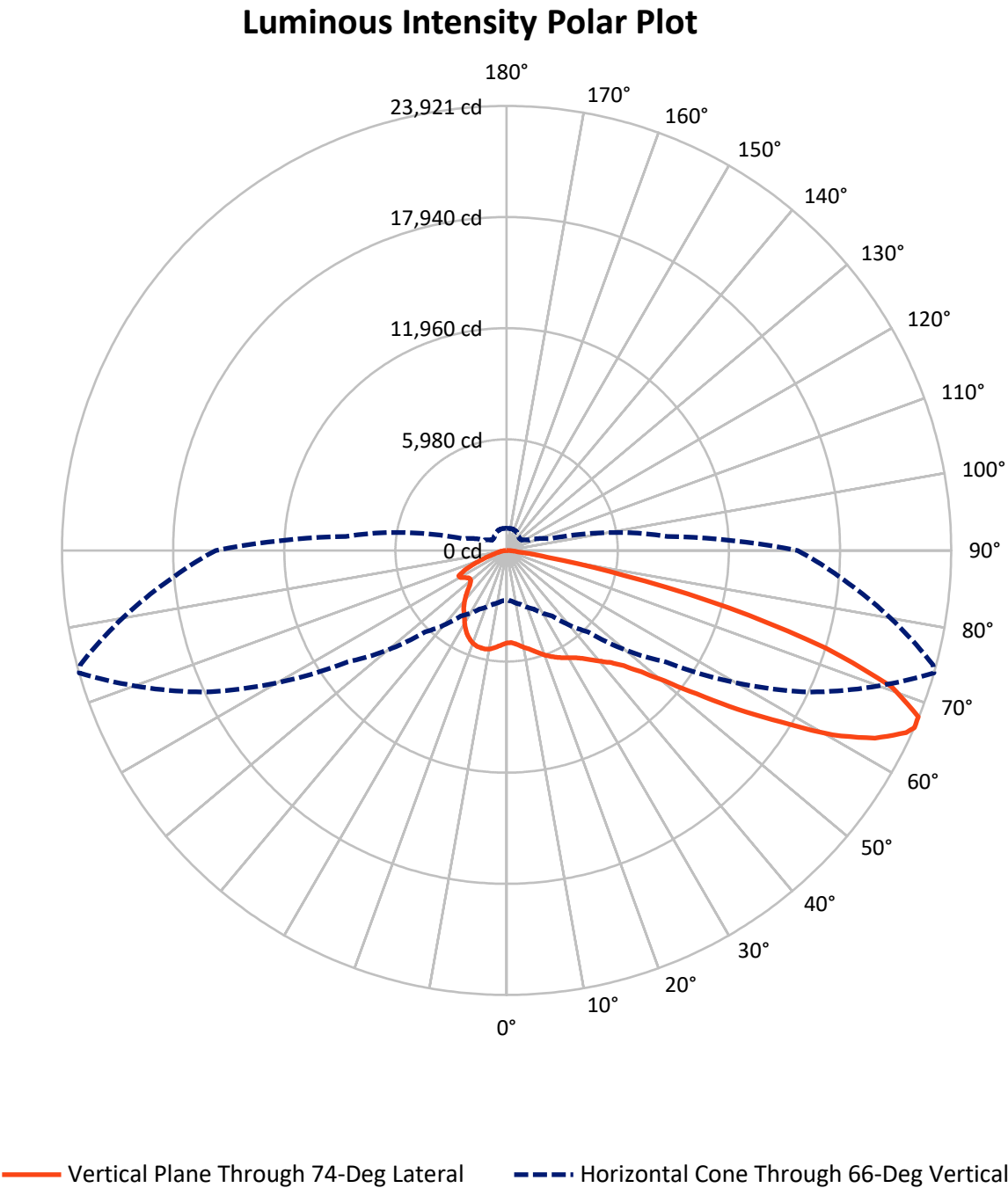
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

REPORT NUMBER: P1211177
CATALOG NUMBER: ARCH4-190-750-U-T2RE



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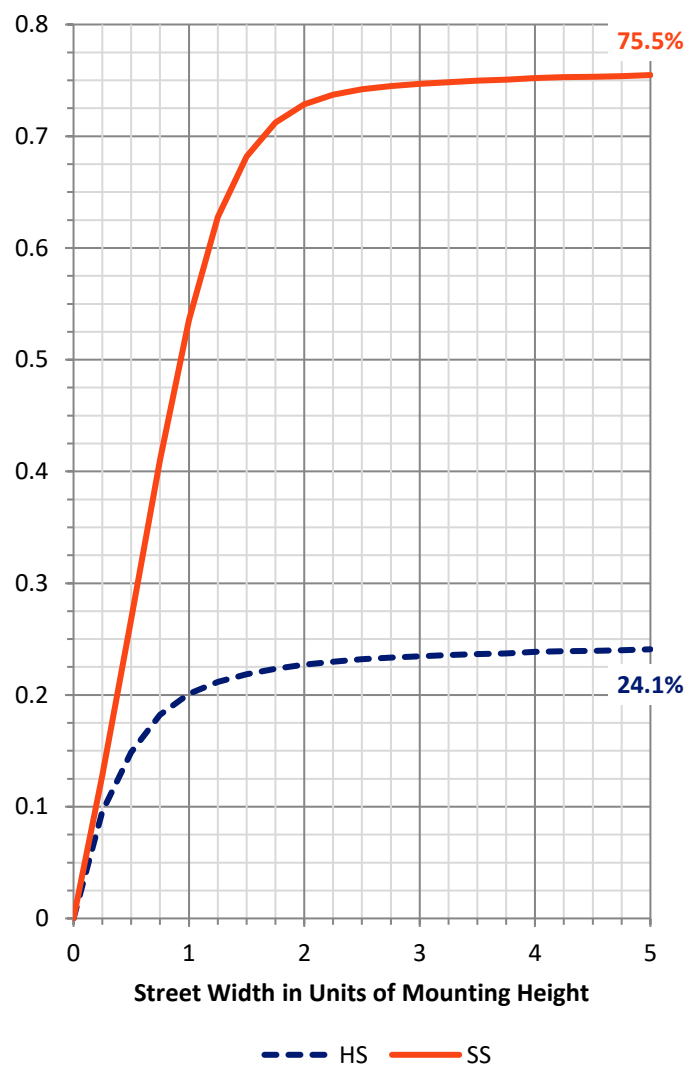
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7384.0	0.0	7384.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	22937.0	0.0	22937.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	30321.0	0.0	30321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	1.6
10°-20°	1458.1	4.8
20°-30°	2736.2	9.0
30°-40°	4208.9	13.9
40°-50°	5661.3	18.7
50°-60°	6695.2	22.1
60°-70°	6193.4	20.4
70°-80°	2605.5	8.6
80°-90°	288.3	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°	30321.0	100.0
0°-180°	30321.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211177

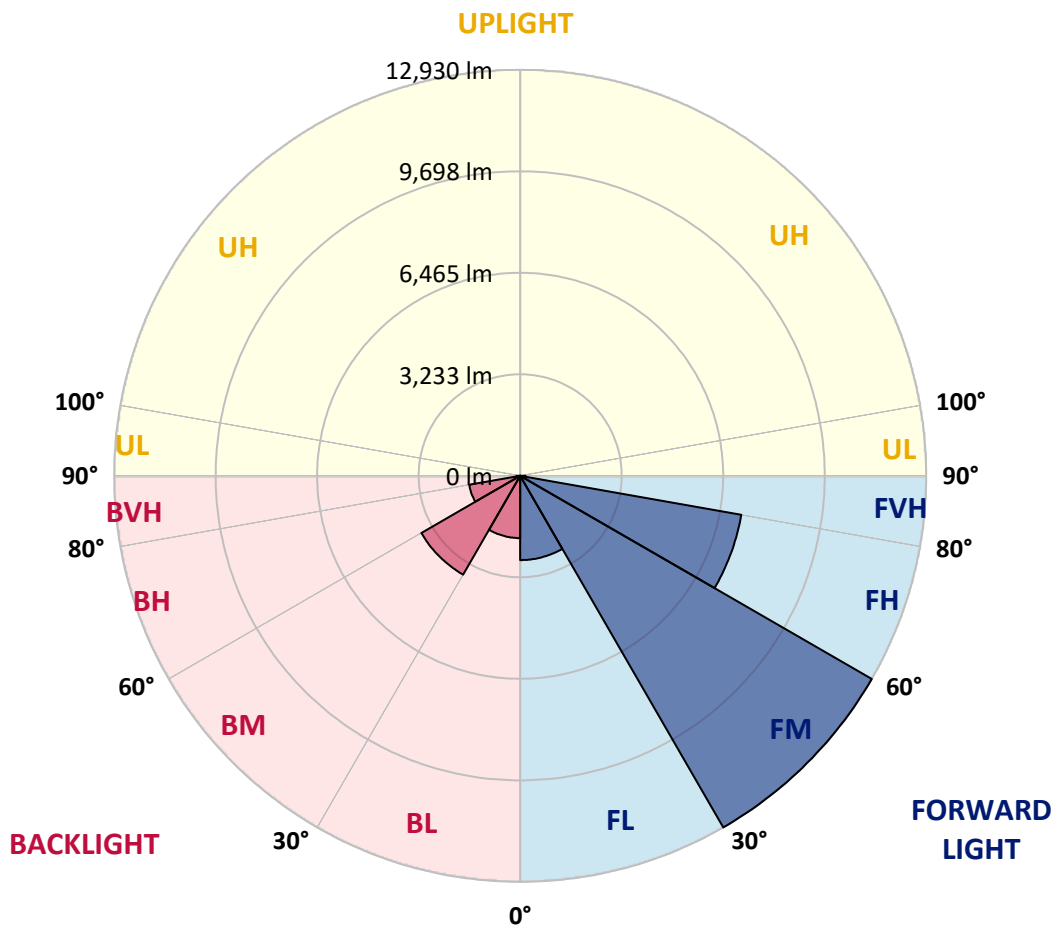
CATALOG NUMBER: ARCH4-190-750-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.8	8.9			
FM	(30°-60°)	12930.2	42.6			
FH	(60°-80°)	7150.5	23.6			G3/7500
FVH	(80°-90°)	172.5	0.6			G2/225
BL	(0°-30°)	1984.7	6.5	B3/2500		
BM	(30°-60°)	3635.2	12.0	B3/5000		
BH	(60°-80°)	1648.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	115.8	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-G3

Type II Short



REPORT NUMBER: P1211177

CATALOG NUMBER: ARCH4-190-750-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6
2.5°	4955.0	4947.2	4962.8	4986.2	4997.9	4978.4	4970.6	4966.7	4966.7	4955.0	4974.5
5°	4720.9	4717.0	4752.1	4795.0	4877.0	4935.5	5013.5	5060.4	5044.8	5021.3	5036.9
7.5°	4416.6	4408.8	4451.7	4533.6	4646.8	4775.5	4966.7	5115.0	5173.5	5165.7	5161.8
10°	4533.6	4525.8	4521.9	4498.5	4537.5	4662.4	4861.4	5122.8	5321.8	5325.7	5329.6
12.5°	4939.4	4958.9	4939.4	4865.3	4779.4	4732.6	4849.7	5142.3	5446.6	5470.0	5567.6
15°	5493.4	5473.9	5434.9	5349.1	5216.4	5076.0	4990.1	5232.0	5626.1	5645.6	5860.2
17.5°	5981.1	5996.7	5973.3	5891.4	5735.3	5552.0	5290.6	5388.1	5817.3	5871.9	6172.3
20°	6511.7	6574.2	6543.0	6441.5	6312.8	6039.7	5711.9	5614.4	6027.9	6067.0	6496.1
22.5°	7124.3	7190.6	7132.1	7034.6	6929.2	6593.7	6172.3	5891.4	6203.5	6285.5	6808.3
25°	7857.8	7920.2	7865.6	7713.4	7580.8	7171.1	6667.8	6203.5	6375.2	6464.9	7061.9
27.5°	8439.1	8485.9	8536.7	8446.9	8244.1	7818.8	7182.8	6527.4	6546.9	6640.5	7296.0
30°	8958.0	9075.1	9118.0	9129.7	8958.0	8482.0	7709.5	6862.9	6695.1	6792.7	7530.1
32.5°	9668.1	9843.7	9773.5	9843.7	9742.3	9106.3	8255.8	7210.1	6886.3	6976.0	7752.5
35°	10706.0	10846.4	10663.0	10608.4	10444.5	9738.4	8782.5	7569.1	7139.9	7237.4	7963.1
37.5°	11821.8	11981.8	11716.5	11498.0	11185.8	10362.6	9235.1	8041.2	7491.0	7569.1	8158.2
40°	12797.2	12929.9	12699.7	12410.9	11888.1	10912.7	9625.2	8372.8	7842.2	7939.7	8384.5
42.5°	13698.5	13784.3	13526.8	13249.8	12551.4	11408.2	10046.6	8723.9	8251.9	8345.5	8567.9
45°	14611.4	14677.8	14318.8	13924.8	13105.4	11860.8	10510.9	9215.5	8852.7	8977.5	8864.4
47.5°	14775.3	14794.8	14732.4	14467.1	13542.4	12293.9	11084.4	9874.9	9769.6	9906.1	9375.5
50°	13639.9	13815.5	14201.8	14463.2	13718.0	12656.7	11657.9	10819.1	11033.7	11209.3	10436.7
52.5°	11435.5	11603.3	12496.8	13487.8	13296.6	12738.7	12274.4	12016.9	12816.7	13027.4	11880.3
55°	9110.2	9258.5	10202.6	11630.6	11935.0	12364.1	12933.8	13546.3	15091.3	15231.8	13464.4
57.5°	7502.7	7584.7	8259.7	9633.0	10120.7	11166.3	13288.8	15364.4	17405.0	17619.6	14841.6
60°	6152.8	6242.5	6745.8	7877.3	8525.0	9453.5	13007.9	17159.2	20167.3	20167.3	16609.0
62.5°	4631.2	4709.2	5177.4	6063.1	7151.6	8002.2	12110.5	18349.2	22250.7	22157.1	17888.8
65°	3179.8	3242.2	3581.7	4170.8	5150.1	6820.0	10885.4	18364.8	23631.9	23507.1	18435.0
66°	2668.7	2723.3	3012.0	3488.0	4311.3	6187.9	10452.3	18033.1	23920.6	23745.0	18204.8
67.5°	2106.9	2145.9	2337.0	2618.0	3160.3	5009.6	9769.6	17092.8	23893.3	23788.0	17619.6
70°	1506.0	1533.3	1673.8	1732.3	1868.9	2898.9	7760.3	14970.4	21977.6	22008.8	15317.6
72.5°	1166.6	1209.5	1295.3	1307.0	1275.8	1541.1	4709.2	12489.0	17978.5	17966.8	11369.2
75°	940.3	963.7	1006.6	1030.0	1022.2	994.9	1993.7	9317.0	12375.8	12520.2	6367.4
77.5°	741.3	737.4	776.4	807.6	831.0	780.3	913.0	5462.2	6488.3	6305.0	2391.7
80°	546.2	546.2	600.8	612.5	647.7	655.5	608.6	2106.9	2227.8	2024.9	620.4
82.5°	358.9	358.9	417.5	425.3	460.4	511.1	440.9	632.1	616.5	585.2	280.9
85°	195.1	187.3	206.8	234.1	253.6	300.4	265.3	316.0	323.8	319.9	187.3
87.5°	39.0	35.1	54.6	62.4	70.2	93.6	85.8	128.8	179.5	175.6	81.9
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: P1211177

CATALOG NUMBER: ARCH4-190-750-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6
2.5°	5001.8	4997.9	5040.8	5091.6	5150.1	5185.2	5200.8	5228.1	5208.6	5216.4	5239.8
5°	5076.0	5087.7	5150.1	5216.4	5243.7	5224.2	5181.3	5165.7	5130.6	5122.8	5115.0
7.5°	5185.2	5204.7	5267.1	5282.7	5200.8	5064.3	4966.7	4912.1	4853.6	4838.0	4830.2
10°	5364.7	5376.4	5392.0	5232.0	5029.1	4845.8	4724.8	4674.1	4635.1	4603.9	4611.7
12.5°	5591.0	5583.2	5462.2	5130.6	4841.9	4654.6	4572.7	4541.4	4514.1	4494.6	4490.7
15°	5875.8	5821.2	5473.9	4990.1	4666.3	4510.2	4451.7	4440.0	4408.8	4408.8	4404.9
17.5°	6164.5	6024.0	5466.1	4841.9	4498.5	4412.7	4377.6	4369.8	4362.0	4358.1	4369.8
20°	6453.2	6203.5	5403.7	4658.5	4381.5	4330.8	4323.0	4326.9	4319.1	4330.8	4323.0
22.5°	6706.8	6320.6	5286.6	4463.4	4299.5	4295.6	4276.1	4283.9	4311.3	4315.2	4326.9
25°	6901.9	6363.5	5115.0	4283.9	4241.0	4233.2	4256.6	4287.8	4311.3	4315.2	4334.7
27.5°	7061.9	6340.1	4900.4	4143.5	4139.6	4182.5	4252.7	4264.4	4268.3	4268.3	4252.7
30°	7182.8	6289.4	4627.3	3987.4	4006.9	4112.3	4178.6	4178.6	4147.4	4139.6	4163.0
32.5°	7210.1	6223.0	4330.8	3827.5	3858.7	3983.5	4065.5	4038.1	4003.0	4003.0	4018.6
35°	7233.5	6133.3	4092.8	3609.0	3655.8	3804.0	3882.1	3827.5	3788.4	3776.7	3772.8
37.5°	7225.7	6098.2	3878.2	3332.0	3394.4	3538.7	3589.5	3538.7	3480.2	3452.9	3488.0
40°	7233.5	6074.8	3609.0	3027.6	3090.1	3175.9	3242.2	3203.2	3148.6	3078.4	3113.5
42.5°	7280.4	6106.0	3312.4	2731.1	2731.1	2777.9	2891.1	2863.8	2731.1	2703.8	2735.0
45°	7530.1	6273.7	3015.9	2434.6	2391.7	2422.9	2539.9	2422.9	2341.0	2341.0	2368.3
47.5°	8134.8	6585.9	2754.5	2173.2	2071.7	2134.2	2165.4	2056.1	1993.7	1978.1	2005.4
50°	9367.7	7210.1	2598.5	1958.6	1833.7	1880.6	1861.1	1857.2	1794.7	1802.5	1818.1
52.5°	11240.5	8427.4	2551.6	1853.3	1697.2	1708.9	1689.4	1697.2	1685.5	1724.5	1736.2
55°	13281.0	9711.0	2610.2	1868.9	1603.6	1521.6	1529.4	1568.4	1615.3	1677.7	1689.4
57.5°	14806.5	10354.8	2762.3	1974.2	1486.5	1361.7	1381.2	1455.3	1545.0	1595.7	1623.1
60°	15941.9	10276.8	2984.7	2001.5	1346.0	1217.3	1252.4	1361.7	1439.7	1482.6	1509.9
62.5°	16312.5	9789.1	3039.3	1802.5	1162.7	1080.7	1166.6	1279.7	1314.8	1361.7	1381.2
65°	16008.2	9098.5	2641.4	1463.1	1022.2	979.3	1104.1	1190.0	1236.8	1260.2	1264.1
66°	15649.3	8684.9	2426.8	1330.4	971.5	948.1	1080.7	1151.0	1197.8	1193.9	1197.8
67.5°	14861.1	7818.8	2079.5	1143.2	897.4	901.3	1041.7	1088.5	1104.1	1092.4	1092.4
70°	12180.8	5505.1	1490.4	866.2	788.1	842.7	936.4	948.1	983.2	967.6	967.6
72.5°	7510.6	2703.8	998.8	663.3	702.3	788.1	784.2	823.2	905.2	928.6	944.2
75°	3690.9	1096.3	659.4	561.8	628.2	659.4	651.6	749.1	866.2	967.6	1002.7
77.5°	1400.7	546.2	460.4	491.6	507.2	495.5	518.9	678.9	866.2	1049.5	1084.6
80°	433.1	378.5	362.8	405.8	382.4	362.8	390.2	561.8	733.5	795.9	795.9
82.5°	261.4	296.5	280.9	277.0	257.5	261.4	280.9	401.9	565.7	593.0	593.0
85°	183.4	195.1	160.0	152.2	148.3	144.4	144.4	234.1	335.5	331.6	343.3
87.5°	70.2	78.0	58.5	58.5	54.6	39.0	31.2	39.0	39.0	27.3	19.5
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)