

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: P1211307

Luminaire Tested: **ARCH4-230-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211307
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: ARCH4-230-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35198 lumens
Efficiency: N/A
Efficacy: 152.2 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): 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



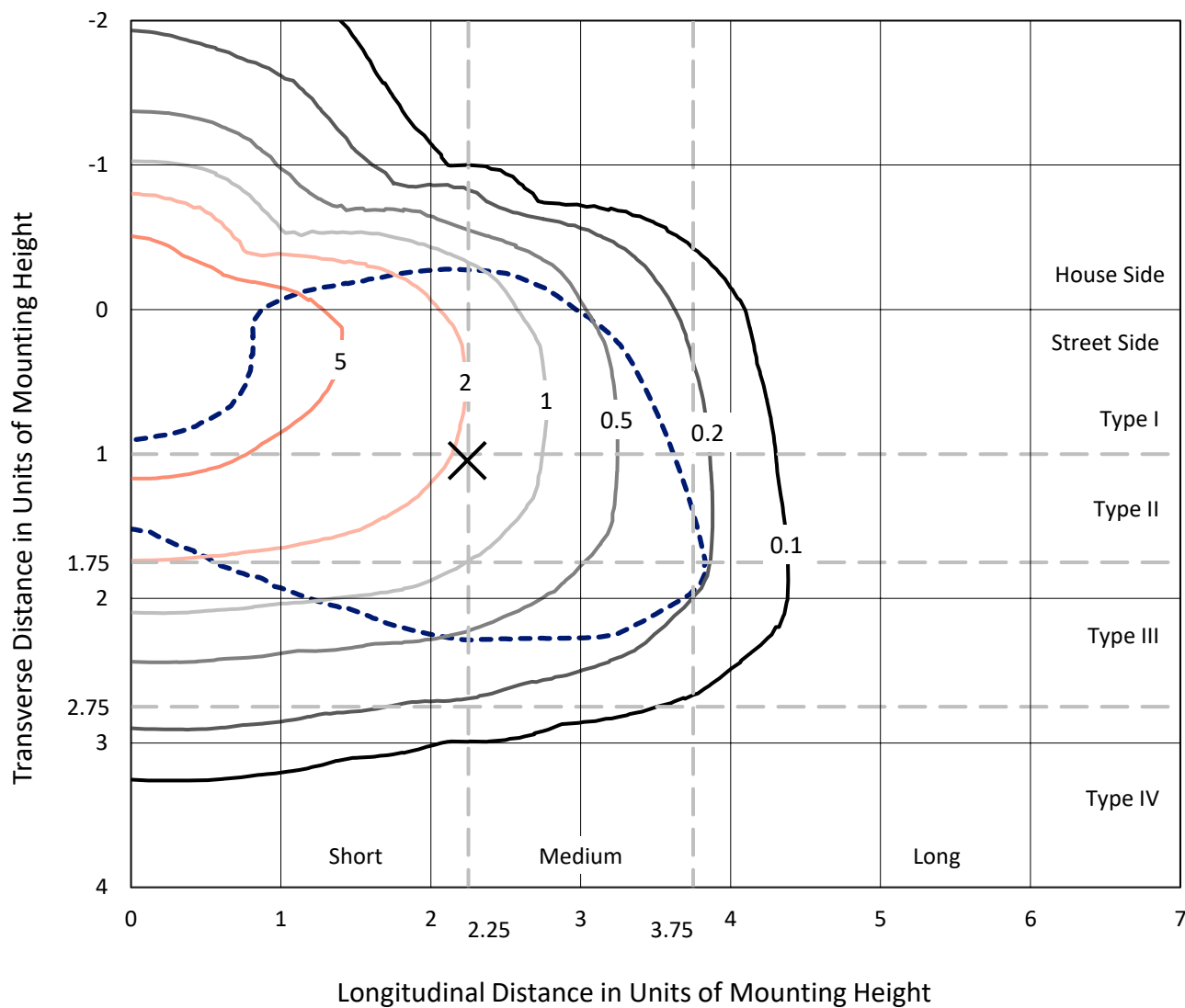
REPORT NUMBER: P1211307

CATALOG NUMBER: ARCH4-230-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

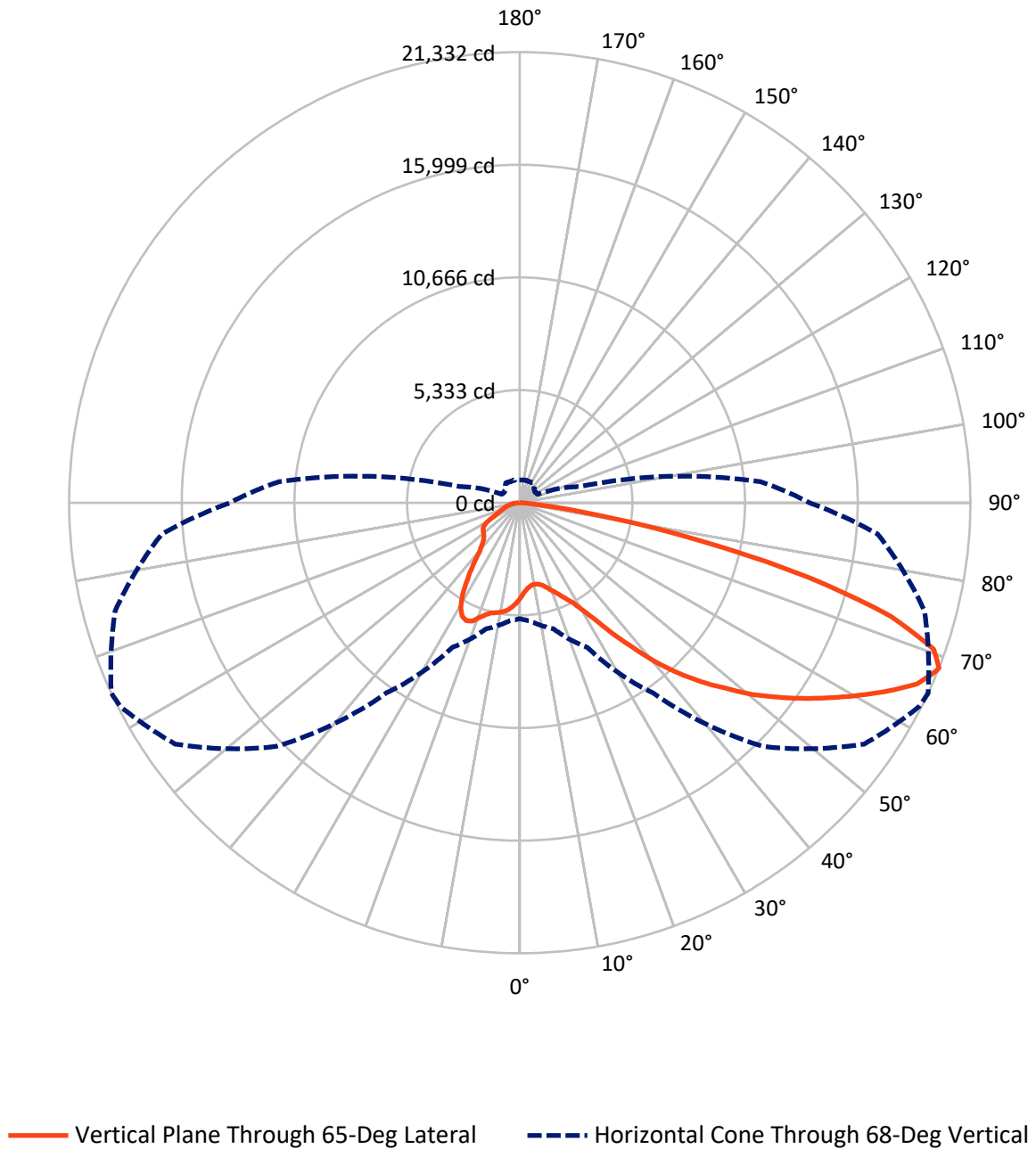


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1211307

CATALOG NUMBER: ARCH4-230-750-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211307

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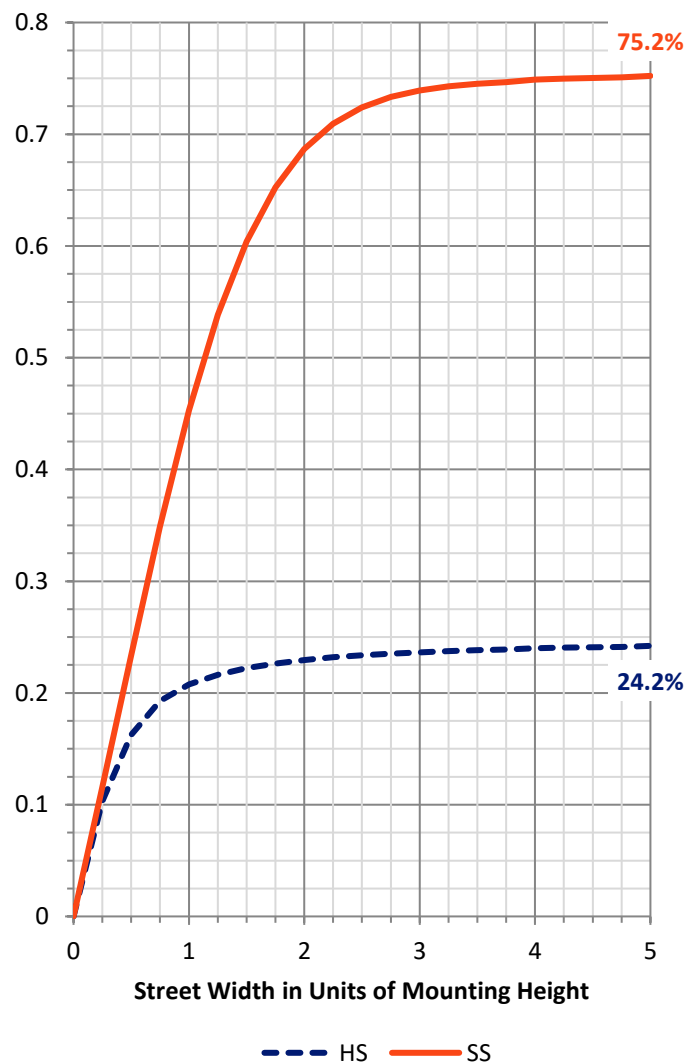
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8629.5	0.0	8629.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	26568.5	0.0	26568.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	35198.0	0.0	35198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.9	1.2
10°-20°	1399.6	4.0
20°-30°	2533.2	7.2
30°-40°	3985.0	11.3
40°-50°	5935.2	16.9
50°-60°	7785.8	22.1
60°-70°	8514.3	24.2
70°-80°	4213.1	12.0
80°-90°	401.9	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°	35198.0	100.0
0°-180°	35198.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211307

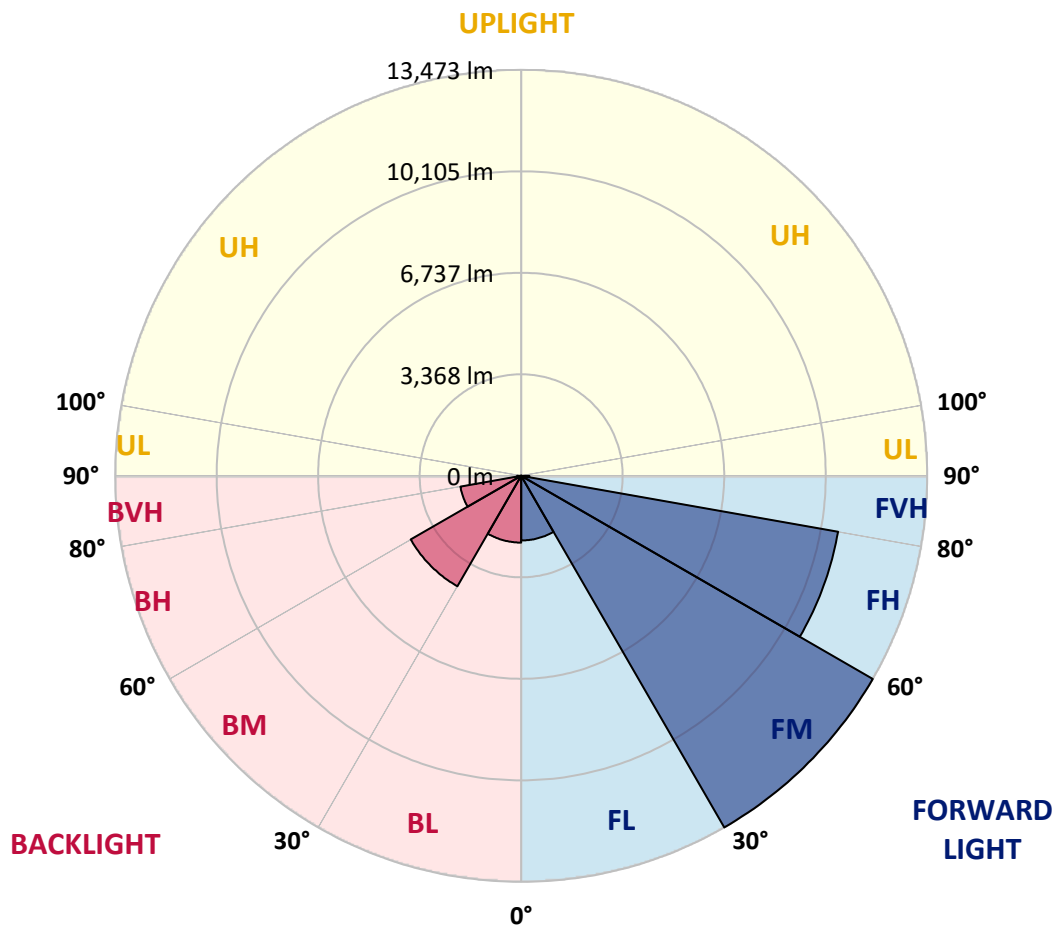
CATALOG NUMBER: ARCH4-230-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2145.7	6.1			
FM	(30°-60°)	13473.3	38.3			
FH	(60°-80°)	10679.2	30.3			G4/12000
FVH	(80°-90°)	270.3	0.8			G3/500
BL	(0°-30°)	2217.0	6.3	B3/2500		
BM	(30°-60°)	4232.7	12.0	B3/5000		
BH	(60°-80°)	2048.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	131.6	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: P1211307

CATALOG NUMBER: ARCH4-230-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9
2.5°	3926.0	3916.9	3939.6	3962.3	4012.2	4071.2	4152.9	4221.0	4230.1	4357.2	4457.0
5°	3694.5	3680.9	3703.6	3730.8	3753.5	3826.1	3912.4	4012.2	4053.1	4239.2	4452.5
7.5°	3717.2	3712.7	3721.8	3712.7	3712.7	3744.4	3803.5	3903.3	3948.7	4171.1	4475.2
10°	3848.8	3857.9	3862.5	3835.2	3808.0	3794.4	3812.5	3880.6	3912.4	4175.6	4575.0
12.5°	4066.7	4080.3	4084.9	4034.9	3998.6	3939.6	3907.8	3935.1	3957.8	4221.0	4715.7
15°	4361.7	4370.8	4339.0	4307.2	4216.5	4143.9	4066.7	4044.0	4053.1	4316.3	4874.6
17.5°	4706.7	4693.0	4693.0	4615.9	4497.9	4384.4	4257.3	4239.2	4239.2	4470.6	5101.5
20°	5083.4	5097.0	5056.1	4951.7	4833.7	4656.7	4529.6	4448.0	4457.0	4647.7	5378.4
22.5°	5628.0	5650.7	5541.8	5392.0	5210.5	5006.2	4824.7	4693.0	4697.6	4879.1	5664.3
25°	6213.5	6222.6	6154.5	5954.8	5709.7	5419.2	5178.7	5010.8	5006.2	5137.8	6032.0
27.5°	6812.6	6853.5	6717.3	6526.7	6299.8	5936.7	5618.9	5392.0	5355.7	5532.7	6490.4
30°	7429.9	7479.8	7348.2	7162.1	6880.7	6572.1	6195.4	5932.1	5909.4	6145.4	7103.1
32.5°	8051.7	8065.3	7960.9	7806.6	7552.4	7262.0	6957.9	6667.4	6644.7	7030.5	7897.4
35°	8560.0	8600.9	8528.3	8492.0	8305.9	8038.1	7743.1	7575.1	7634.1	8128.9	8927.7
37.5°	9172.8	9213.6	9131.9	9122.8	9063.8	8832.4	8628.1	8641.7	8700.7	9372.5	10012.4
40°	10057.8	10103.2	9894.4	9803.6	9803.6	9576.7	9508.6	9830.9	9908.0	10597.9	11142.6
42.5°	10806.7	10879.3	10756.8	10697.8	10520.8	10361.9	10443.6	10897.5	11029.1	11768.9	12127.5
45°	11169.8	11224.3	11369.5	11542.0	11369.5	11092.6	11401.3	11914.2	12100.2	12849.1	13112.4
47.5°	11365.0	11414.9	11582.8	12045.8	12163.8	11932.3	12368.0	13008.0	13135.1	13920.3	14051.9
50°	11392.2	11551.1	11768.9	12231.9	12772.0	12803.7	13339.3	14120.0	14269.8	14973.3	14877.9
52.5°	11169.8	11233.3	11682.7	12463.3	13062.5	13607.1	14396.8	15186.6	15295.5	15962.7	15608.7
55°	10806.7	10897.5	11346.8	12408.9	13343.9	14369.6	15472.5	16235.0	16357.6	16924.9	16284.9
57.5°	10479.9	10525.3	11006.4	12250.0	13625.3	15132.1	16430.2	17328.9	17410.5	17769.1	16784.2
60°	10116.8	10166.7	10647.8	11909.6	13834.0	15708.5	17428.7	18431.8	18504.4	18658.7	17365.2
62.5°	9177.3	9308.9	9912.6	11346.8	13779.6	16366.6	18495.3	19521.1	19611.8	19443.9	17823.6
65°	7452.6	7638.7	8378.5	10071.4	13271.2	16793.3	19366.7	20524.1	20678.4	20033.9	17946.1
67.5°	5786.9	5918.5	6513.1	7992.7	11487.5	16580.0	19929.5	21214.0	21259.4	19938.6	17265.3
68°	5487.3	5618.9	6186.3	7557.0	10992.8	16325.8	19915.9	21232.2	21332.0	19834.2	17002.1
70°	4198.3	4348.1	4888.2	5986.6	8859.6	14710.0	19085.3	20796.4	20782.8	18572.5	15368.1
72.5°	2623.4	2709.6	3081.8	3776.2	5859.5	11192.5	16198.7	18341.0	18377.3	15141.2	11787.1
75°	1665.7	1665.7	1647.6	1829.1	3004.6	6376.9	12041.2	14120.0	14147.2	10602.5	7429.9
77.5°	1447.9	1407.0	1211.8	1025.8	1198.2	2478.1	7125.8	9118.3	8968.5	5709.7	3526.6
80°	1220.9	1152.8	994.0	826.0	771.6	776.1	2736.9	4629.5	4429.8	2056.0	1171.0
82.5°	880.5	821.5	748.9	649.0	594.6	462.9	571.9	1338.9	1307.2	594.6	381.3
85°	476.6	431.2	422.1	426.6	358.6	285.9	240.6	295.0	295.0	258.7	217.9
87.5°	167.9	122.5	145.2	163.4	140.7	118.0	95.3	113.5	118.0	113.5	104.4
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: P1211307

CATALOG NUMBER: ARCH4-230-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9
2.5°	4516.0	4561.4	4670.3	4765.7	4833.7	4892.7	4924.5	4938.1	4969.9	4974.4	4965.4
5°	4552.3	4670.3	4833.7	4974.4	5051.6	5083.4	5092.4	5097.0	5083.4	5092.4	5083.4
7.5°	4647.7	4797.4	5028.9	5151.5	5165.1	5115.1	5119.7	5101.5	5119.7	5137.8	5137.8
10°	4792.9	4983.5	5201.4	5246.8	5187.8	5160.5	5215.0	5323.9	5360.2	5410.2	5410.2
12.5°	4983.5	5210.5	5364.8	5323.9	5269.5	5360.2	5519.1	5628.0	5664.3	5682.5	5668.9
15°	5201.4	5446.5	5523.6	5387.5	5487.3	5682.5	5736.9	5673.4	5582.6	5541.8	5564.5
17.5°	5478.2	5682.5	5637.1	5546.3	5773.3	5800.5	5623.5	5419.2	5274.0	5219.5	5255.8
20°	5768.7	5945.7	5736.9	5777.8	5918.5	5628.0	5292.2	5028.9	4901.8	4879.1	4915.4
22.5°	6077.4	6190.8	5836.8	6045.6	5836.8	5246.8	4842.8	4706.7	4674.9	4711.2	4743.0
25°	6426.8	6413.2	6009.3	6127.3	5532.7	4779.3	4538.7	4529.6	4529.6	4552.3	4597.7
27.5°	6821.7	6608.4	6181.7	6018.3	5006.2	4393.5	4348.1	4352.6	4339.0	4343.6	4366.3
30°	7280.1	6871.6	6372.4	5659.8	4416.2	4103.0	4084.9	4071.2	4039.5	4030.4	4039.5
32.5°	7856.5	7148.5	6567.5	5069.8	3898.8	3803.5	3794.4	3721.8	3644.6	3635.5	3667.3
35°	8587.3	7652.3	6667.4	4329.9	3472.1	3467.6	3435.8	3322.3	3222.5	3222.5	3199.8
37.5°	9422.4	8301.3	6708.2	3608.3	3118.1	3140.8	3050.0	2904.8	2827.6	2782.2	2795.9
40°	10275.7	9041.1	6703.7	2977.4	2809.5	2814.0	2745.9	2568.9	2378.3	2264.8	2292.1
42.5°	11097.2	9712.9	6585.7	2641.5	2559.8	2546.2	2491.8	2251.2	2092.4	2001.6	2006.1
45°	11755.3	10407.3	6404.1	2441.8	2332.9	2355.6	2233.1	2087.8	1942.6	1860.9	1856.3
47.5°	12413.4	10933.8	6113.7	2319.3	2165.0	2124.1	2074.2	1974.3	1865.4	1774.6	1779.2
50°	13012.5	11383.1	5841.3	2237.6	2010.7	1906.3	1915.3	1856.3	1761.0	1679.3	1674.8
52.5°	13434.6	11678.1	5691.6	2192.2	1824.6	1711.1	1742.9	1711.1	1620.3	1561.3	1556.8
55°	13856.7	11905.1	5741.5	2133.2	1620.3	1529.6	1584.0	1574.9	1525.0	1506.9	1511.4
57.5°	14197.1	12077.5	5918.5	2024.3	1425.2	1370.7	1461.5	1434.2	1397.9	1402.5	1402.5
60°	14528.5	12299.9	6127.3	1774.6	1257.2	1261.8	1348.0	1298.1	1275.4	1316.2	1320.8
62.5°	14873.4	12540.5	5954.8	1411.5	1112.0	1143.8	1243.6	1202.8	1211.8	1270.8	1289.0
65°	14832.6	12517.8	4851.9	1157.4	984.9	1048.4	1198.2	1184.6	1189.1	1211.8	1220.9
67.5°	13997.4	11719.0	3336.0	984.9	894.1	971.3	1161.9	1107.4	1112.0	1098.4	1102.9
68°	13716.0	11437.6	2941.1	957.7	876.0	953.1	1143.8	1093.8	1098.4	1084.8	1080.2
70°	12181.9	9794.6	1860.9	844.2	812.4	903.2	1053.0	1034.8	1030.3	1021.2	1021.2
72.5°	9286.2	7230.2	980.4	730.7	739.8	826.0	939.5	975.8	953.1	957.7	984.9
75°	6150.0	4348.1	680.8	626.3	649.0	708.0	835.1	907.7	885.1	898.7	885.1
77.5°	3254.3	2342.0	544.6	531.0	531.0	571.9	689.9	803.4	803.4	794.3	780.7
80°	1066.6	826.0	435.7	417.6	426.6	449.3	553.7	658.1	671.7	653.6	644.5
82.5°	358.6	381.3	326.8	304.1	313.2	331.3	417.6	503.8	508.3	472.0	462.9
85°	222.4	254.2	204.2	199.7	199.7	204.2	254.2	276.9	254.2	226.9	236.0
87.5°	104.4	127.1	95.3	81.7	68.1	59.0	45.4	18.2	18.2	9.1	9.1
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)