

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: P841516

Luminaire Tested: **ARCH4-190-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20107 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

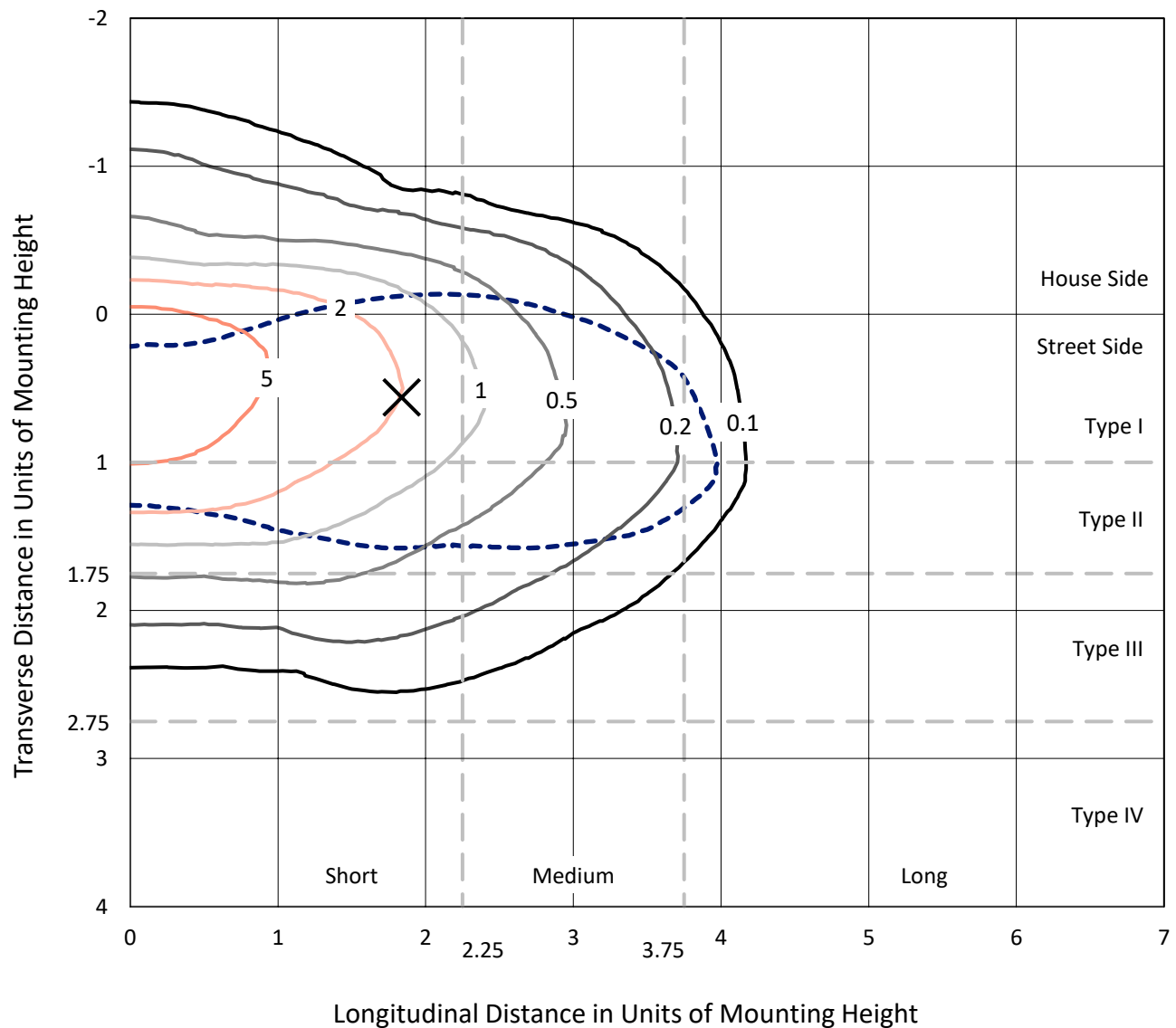
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841516
CATALOG NUMBER: ARCH4-190-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

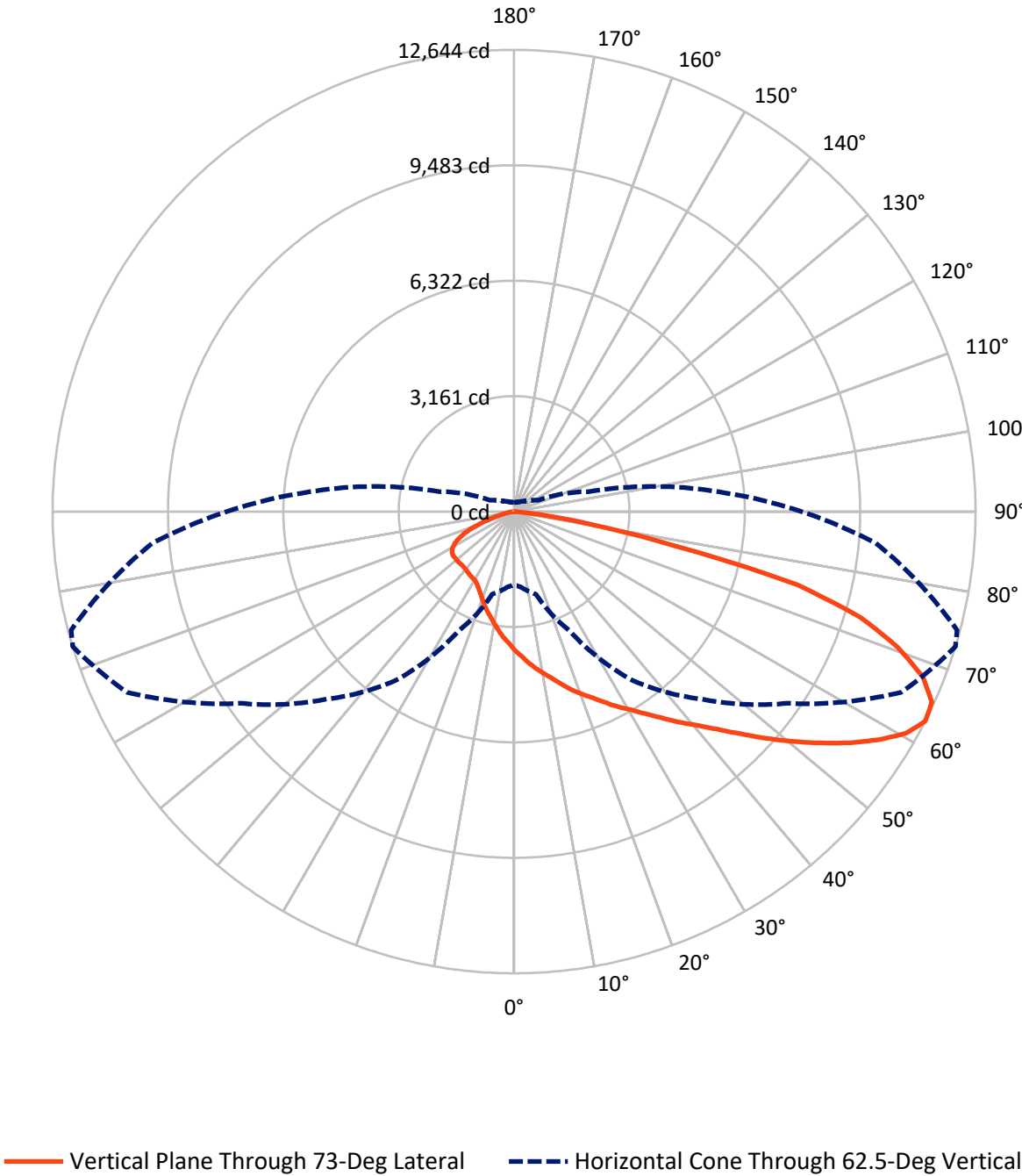
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

REPORT NUMBER: P841516
CATALOG NUMBER: ARCH4-190-727-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841516

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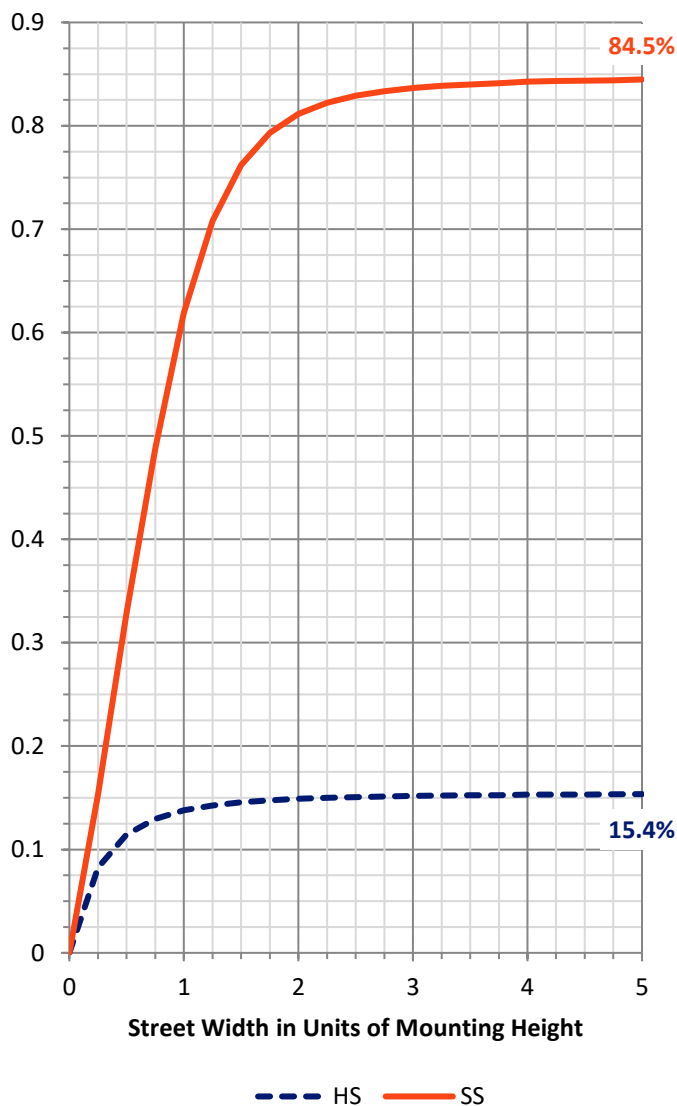
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3116.9	0.0	3116.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16990.1	0.0	16990.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	20107.0	0.0	20107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.8
10°-20°	1109.9	5.5
20°-30°	1847.4	9.2
30°-40°	2787.5	13.9
40°-50°	3896.2	19.4
50°-60°	4303.6	21.4
60°-70°	3749.0	18.6
70°-80°	1893.8	9.4
80°-90°	152.0	0.8
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°	20107.0	100.0
0°-180°	20107.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841516

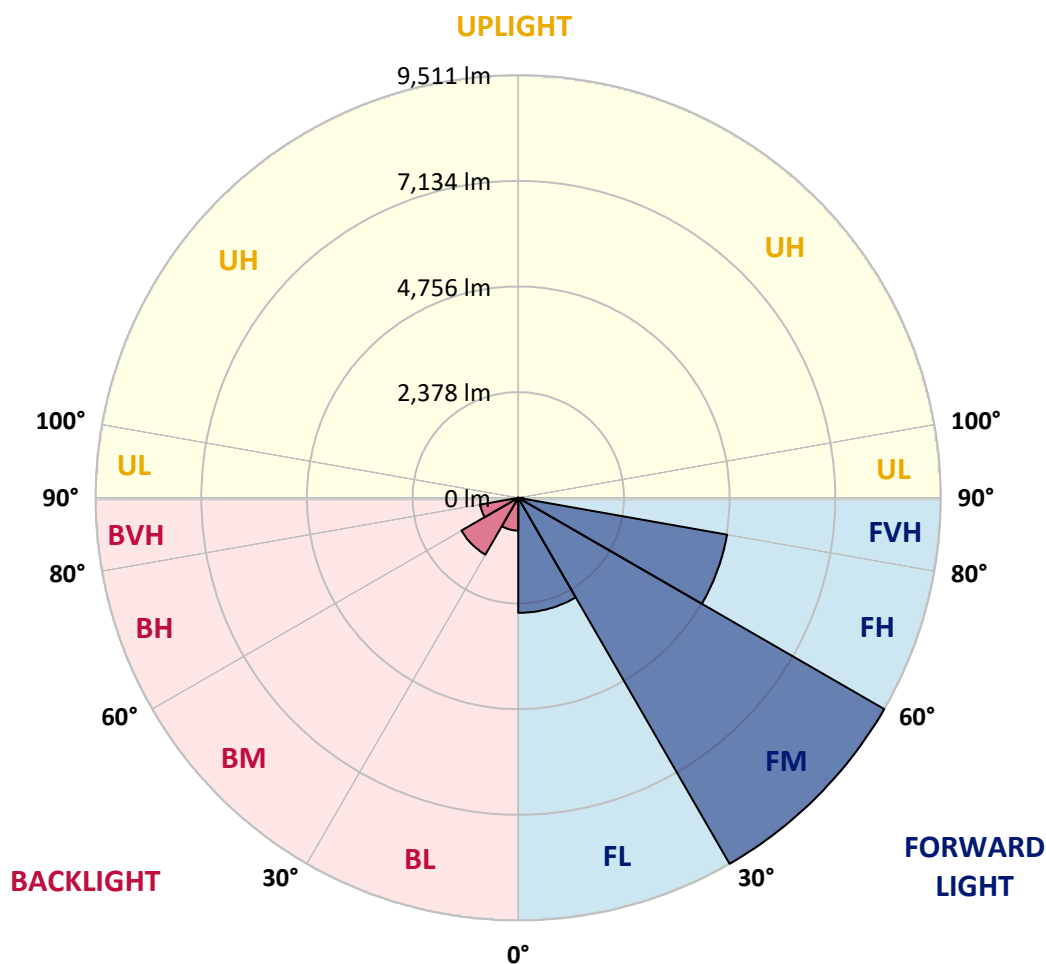
CATALOG NUMBER: ARCH4-190-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2588.4	12.9			
FM	(30°-60°)	9511.4	47.3			
FH	(60°-80°)	4772.7	23.7			G2/5000
FVH	(80°-90°)	117.6	0.6			G2/225
BL	(0°-30°)	736.7	3.7	B2/1000		
BM	(30°-60°)	1475.8	7.3	B2/2500		
BH	(60°-80°)	870.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	34.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P841516

CATALOG NUMBER: ARCH4-190-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3
2.5°	4333.1	4381.2	4355.0	4372.5	4284.9	4227.9	4162.2	4035.1	3965.0	3956.3	3873.0
5°	4968.3	5020.9	4977.1	4964.0	4810.6	4679.2	4530.2	4306.8	4157.8	4131.5	3947.5
7.5°	5603.6	5651.8	5599.2	5559.8	5353.9	5121.7	4902.6	4574.0	4341.8	4298.0	4008.8
10°	6050.5	6094.3	6054.9	6015.5	5800.8	5564.2	5253.1	4823.8	4508.3	4438.2	4048.3
12.5°	6387.9	6414.1	6396.6	6361.6	6160.0	5905.9	5608.0	5104.2	4696.7	4609.1	4109.6
15°	6663.9	6707.7	6685.8	6659.5	6466.7	6212.6	5927.8	5397.7	4915.8	4806.2	4201.6
17.5°	6847.9	6878.6	6882.9	6882.9	6712.1	6462.3	6186.3	5665.0	5134.8	4994.6	4289.2
20°	6931.1	6966.2	6988.1	7023.1	6882.9	6668.3	6387.9	5892.8	5340.7	5183.0	4372.5
22.5°	6970.6	7001.2	7058.2	7137.1	7023.1	6843.5	6585.0	6103.1	5546.7	5380.2	4468.9
25°	7001.2	7040.7	7123.9	7272.9	7194.0	7040.7	6817.2	6344.0	5792.0	5621.1	4609.1
27.5°	7084.5	7132.7	7211.5	7391.2	7294.8	7220.3	7062.6	6602.5	6050.5	5875.3	4779.9
30°	7373.6	7413.1	7408.7	7522.6	7404.3	7382.4	7272.9	6852.3	6300.2	6125.0	4981.5
32.5°	7899.4	7938.8	7842.4	7798.6	7540.1	7544.5	7500.7	7119.5	6598.2	6418.5	5213.7
35°	8464.6	8508.4	8381.3	8306.8	7873.1	7746.0	7767.9	7452.5	6931.1	6751.5	5502.8
37.5°	8968.4	9021.0	8911.5	8801.9	8363.8	8070.3	8065.9	7824.9	7312.3	7128.3	5822.7
40°	9244.4	9305.8	9371.5	9310.1	8850.1	8525.9	8385.7	8206.1	7689.1	7500.7	6168.8
42.5°	9375.9	9546.7	9665.0	9625.6	9248.8	8920.2	8753.7	8604.8	8149.1	7965.1	6580.6
45°	9007.8	9012.2	9262.0	9476.6	9406.5	9187.5	9156.8	9051.7	8674.9	8499.6	7045.0
47.5°	8547.8	8512.8	8688.0	9069.2	9266.3	9323.3	9502.9	9546.7	9275.1	9099.8	7518.2
50°	7443.7	7465.6	8035.2	8582.9	8968.4	9336.4	9748.3	10055.0	9892.9	9726.4	8017.7
52.5°	6054.9	6107.5	6760.3	7965.1	8574.1	9205.0	9892.9	10563.2	10523.8	10366.0	8517.1
55°	4854.4	4937.7	5629.9	6935.5	8070.3	8911.5	9954.2	11027.6	11176.6	11032.0	9007.8
57.5°	3710.9	3798.5	4381.2	5721.9	7426.2	8433.9	9910.4	11435.1	11785.6	11693.5	9459.1
60°	2795.2	2882.9	3255.3	4639.7	6620.1	7899.4	9691.3	11702.3	12333.2	12236.8	9787.7
62.5°	2002.2	2072.3	2348.3	3610.1	5638.7	7264.1	9152.4	11706.7	12644.3	12565.4	9945.4
65°	1441.4	1441.4	1664.9	2576.2	4718.6	6501.8	8337.5	11167.8	12578.6	12556.7	9835.9
67.5°	1038.4	1047.1	1226.7	1800.7	3763.5	5577.3	7281.6	10208.3	12070.3	12179.9	9441.6
70°	736.0	758.0	841.2	1257.4	2843.4	4403.2	6151.3	8950.9	11154.7	11347.4	8679.2
72.5°	569.6	582.7	639.7	876.2	2076.7	3272.8	4902.6	7548.9	9932.3	10151.3	7640.9
75°	438.1	451.3	495.1	644.0	1489.6	2295.8	3483.1	5857.7	8008.9	8398.8	6138.1
77.5°	319.8	337.4	368.0	468.8	867.5	1459.0	2111.8	3294.7	4420.7	4604.7	3215.8
80°	149.0	170.9	214.7	302.3	468.8	687.9	749.2	1270.6	2124.9	2221.3	1743.7
82.5°	83.2	105.1	122.7	184.0	236.6	245.3	254.1	319.8	801.8	885.0	731.7
85°	39.4	52.6	57.0	78.9	78.9	70.1	83.2	61.3	131.4	157.7	153.3
87.5°	0.0	4.4	8.8	21.9	17.5	13.1	13.1	13.1	13.1	17.5	13.1
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: P841516

CATALOG NUMBER: ARCH4-190-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3	3807.3
2.5°	3833.6	3776.6	3645.2	3531.3	3456.8	3391.1	3303.5	3264.0	3193.9	3207.1	3167.6
5°	3855.5	3750.3	3518.1	3303.5	3145.7	3005.5	2852.2	2764.6	2668.2	2659.4	2628.7
7.5°	3868.6	3706.5	3373.6	3071.3	2830.3	2615.6	2409.7	2295.8	2177.5	2151.2	2124.9
10°	3855.5	3640.8	3224.6	2830.3	2510.5	2243.2	2011.0	1866.4	1743.7	1713.1	1686.8
12.5°	3868.6	3605.8	3084.4	2606.8	2225.7	1923.4	1660.5	1511.5	1397.6	1366.9	1349.4
15°	3899.3	3583.9	2966.1	2405.3	1971.6	1634.2	1375.7	1248.7	1156.6	1126.0	1117.2
17.5°	3925.6	3562.0	2839.0	2208.1	1717.4	1380.1	1156.6	1051.5	972.6	942.0	933.2
20°	3960.6	3531.3	2712.0	2019.8	1494.0	1178.6	981.4	889.4	828.1	806.1	801.8
22.5°	3991.3	3509.4	2593.7	1831.4	1288.1	1016.4	850.0	775.5	731.7	709.8	709.8
25°	4070.2	3518.1	2492.9	1656.1	1134.7	889.4	749.2	692.2	657.2	644.0	644.0
27.5°	4162.2	3553.2	2414.1	1507.1	1003.3	793.0	679.1	630.9	613.4	595.8	600.2
30°	4293.6	3623.3	2361.5	1384.5	906.9	718.5	622.1	587.1	569.6	565.2	565.2
32.5°	4460.1	3737.2	2357.1	1305.6	836.8	661.6	582.7	552.0	543.3	538.9	538.9
35°	4657.3	3838.0	2330.8	1270.6	793.0	622.1	552.0	530.1	525.7	525.7	525.7
37.5°	4893.9	4004.5	2313.3	1222.4	771.1	600.2	530.1	512.6	512.6	512.6	512.6
40°	5139.2	4140.3	2287.0	1178.6	762.3	587.1	517.0	495.1	495.1	495.1	495.1
42.5°	5432.7	4337.4	2278.2	1156.6	749.2	578.3	499.5	473.2	477.6	477.6	481.9
45°	5787.6	4560.9	2273.9	1134.7	744.8	569.6	481.9	451.3	455.6	451.3	451.3
47.5°	6146.9	4819.4	2287.0	1121.6	740.4	560.8	468.8	429.4	429.4	425.0	425.0
50°	6523.7	5056.0	2295.8	1108.5	731.7	543.3	446.9	411.8	403.1	394.3	398.7
52.5°	6878.6	5275.0	2300.2	1086.5	705.4	517.0	429.4	389.9	376.8	363.6	368.0
55°	7233.4	5485.3	2308.9	1060.3	670.3	490.7	407.5	368.0	350.5	333.0	333.0
57.5°	7553.3	5669.3	2287.0	994.5	630.9	464.4	385.5	341.7	315.4	297.9	297.9
60°	7772.3	5800.8	2221.3	898.2	578.3	433.7	363.6	315.4	284.8	271.6	271.6
62.5°	7877.5	5822.7	2103.0	740.4	512.6	403.1	337.4	289.2	262.9	254.1	254.1
65°	7776.7	5726.3	1919.0	556.4	442.5	368.0	311.1	267.3	241.0	219.1	219.1
67.5°	7426.2	5454.7	1664.9	420.6	376.8	333.0	284.8	245.3	214.7	197.2	197.2
70°	6720.8	4889.5	1288.1	337.4	319.8	289.2	258.5	219.1	192.8	170.9	170.9
72.5°	5796.4	4144.7	906.9	271.6	271.6	245.3	219.1	192.8	166.5	149.0	149.0
75°	4447.0	3066.9	609.0	219.1	223.4	205.9	179.6	157.7	140.2	127.1	127.1
77.5°	2427.2	1515.9	372.4	162.1	166.5	157.7	140.2	127.1	118.3	105.1	105.1
80°	1178.6	665.9	214.7	113.9	118.3	113.9	105.1	92.0	92.0	83.2	83.2
82.5°	495.1	249.7	113.9	78.9	78.9	70.1	65.7	65.7	65.7	61.3	61.3
85°	122.7	48.2	48.2	43.8	43.8	43.8	39.4	39.4	39.4	30.7	35.0
87.5°	17.5	17.5	17.5	17.5	17.5	17.5	13.1	4.4	0.0	0.0	0.0
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)