

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: P841003

Luminaire Tested: **ARCH4-120-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841003
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: ARCH4-120-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA 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: 12557 lumens
Efficiency: N/A
Efficacy: 102.9 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

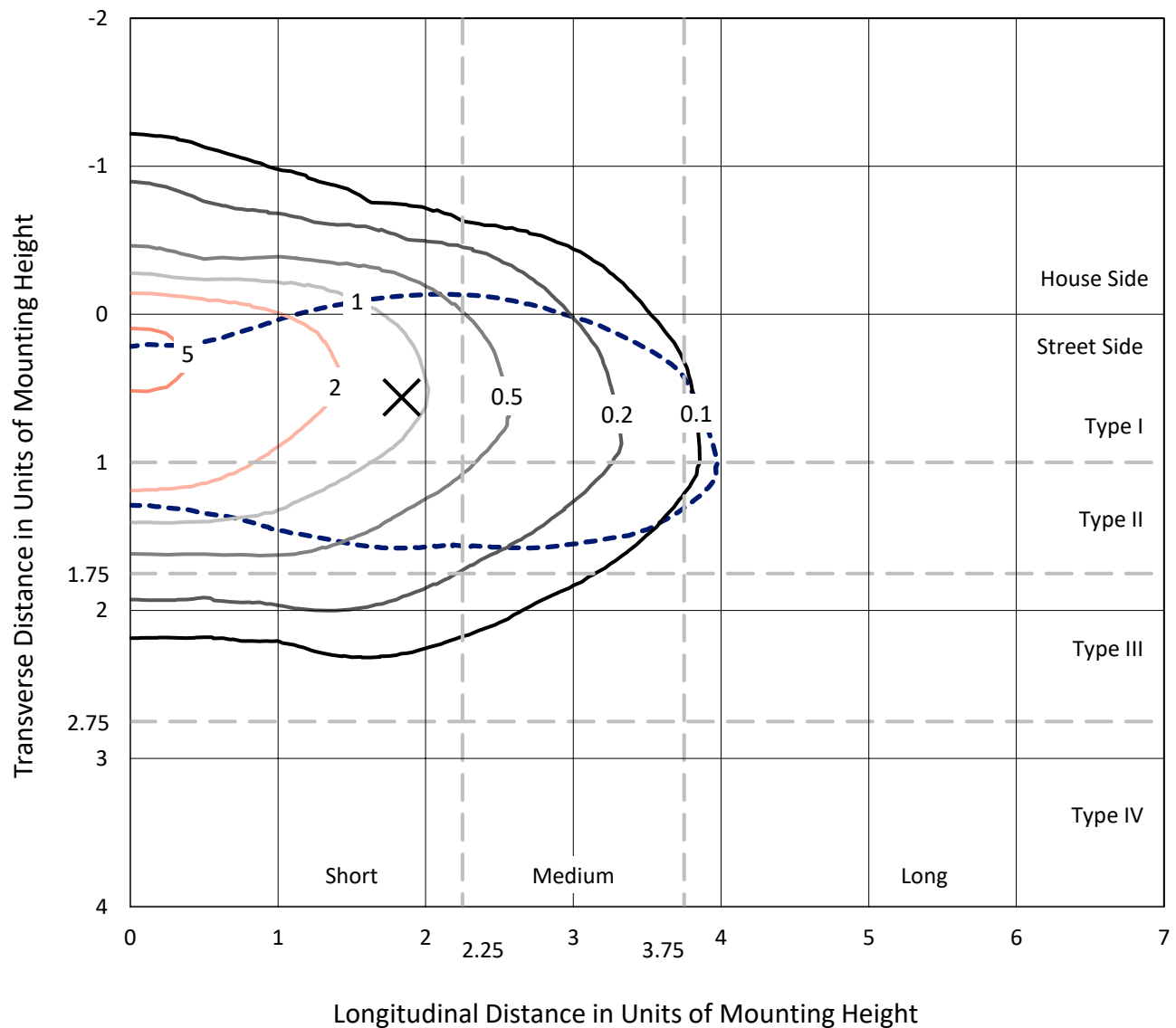
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841003
CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

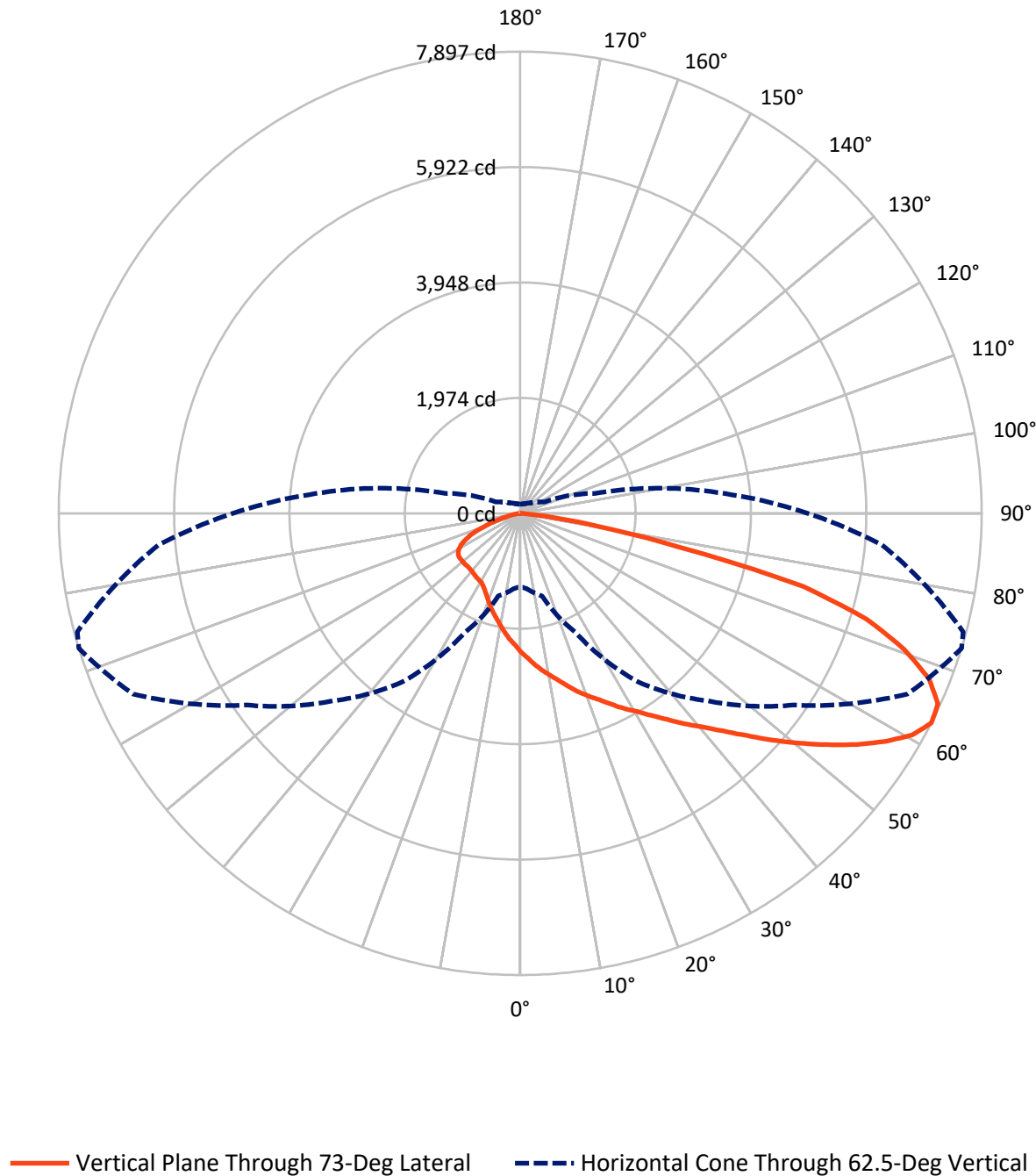
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

REPORT NUMBER: P841003
CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841003

CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

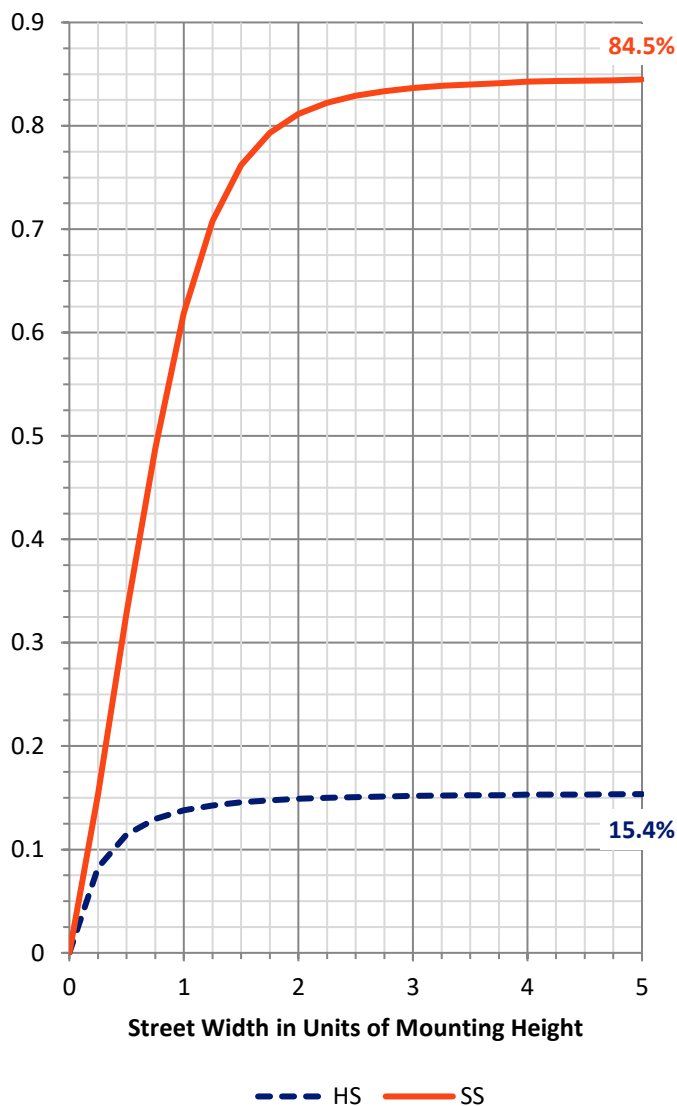
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.5	0.0	1946.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10610.5	0.0	10610.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	12557.0	0.0	12557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.8
10°-20°	693.1	5.5
20°-30°	1153.7	9.2
30°-40°	1740.8	13.9
40°-50°	2433.2	19.4
50°-60°	2687.6	21.4
60°-70°	2341.3	18.6
70°-80°	1182.7	9.4
80°-90°	94.9	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°	12557.0	100.0
0°-180°	12557.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841003

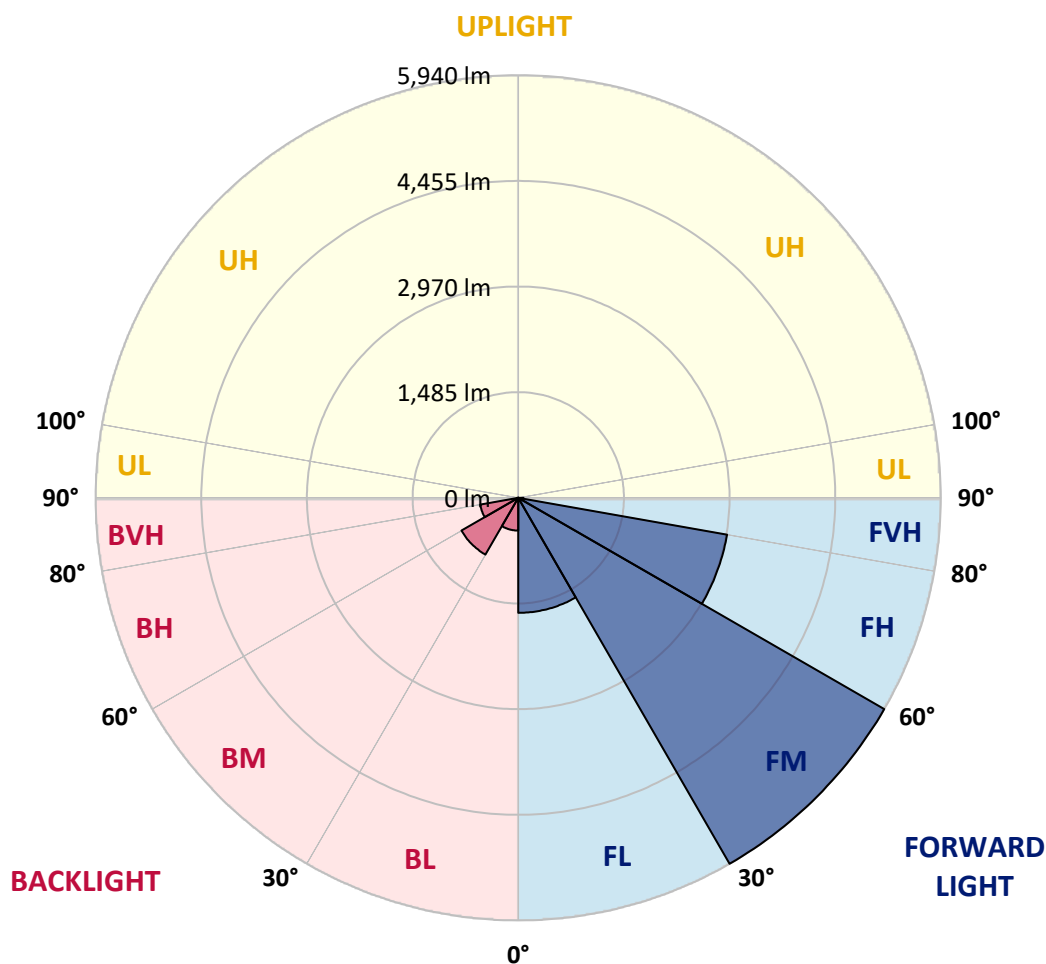
CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1616.5	12.9			
FM	(30°-60°)	5939.9	47.3			
FH	(60°-80°)	2980.6	23.7			G2/5000
FVH	(80°-90°)	73.5	0.6			G1/100
BL	(0°-30°)	460.1	3.7	B1/500		
BM	(30°-60°)	921.7	7.3	B1/1000		
BH	(60°-80°)	543.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.5	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: P841003

CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7
2.5°	2706.0	2736.1	2719.7	2730.7	2675.9	2640.4	2599.3	2520.0	2476.2	2470.7	2418.7
5°	3102.8	3135.6	3108.2	3100.0	3004.3	2922.2	2829.2	2689.6	2596.6	2580.2	2465.3
7.5°	3499.5	3529.6	3496.8	3472.1	3343.5	3198.5	3061.7	2856.5	2711.5	2684.1	2503.6
10°	3778.6	3806.0	3781.3	3756.7	3622.6	3474.9	3280.6	3012.5	2815.5	2771.7	2528.2
12.5°	3989.3	4005.7	3994.7	3972.9	3847.0	3688.3	3502.2	3187.6	2933.1	2878.4	2566.5
15°	4161.6	4189.0	4175.3	4158.9	4038.5	3879.8	3702.0	3370.9	3069.9	3001.5	2623.9
17.5°	4276.6	4295.7	4298.5	4298.5	4191.7	4035.8	3863.4	3537.8	3206.7	3119.2	2678.7
20°	4328.6	4350.4	4364.1	4386.0	4298.5	4164.4	3989.3	3680.1	3335.3	3236.8	2730.7
22.5°	4353.2	4372.3	4407.9	4457.2	4386.0	4273.8	4112.4	3811.4	3463.9	3360.0	2790.8
25°	4372.3	4397.0	4448.9	4542.0	4492.7	4397.0	4257.4	3961.9	3617.2	3510.5	2878.4
27.5°	4424.3	4454.4	4503.7	4615.8	4555.7	4509.1	4410.6	4123.3	3778.6	3669.1	2985.1
30°	4604.9	4629.5	4626.8	4697.9	4624.1	4610.4	4542.0	4279.3	3934.6	3825.1	3111.0
32.5°	4933.2	4957.9	4897.7	4870.3	4708.9	4711.6	4684.2	4446.2	4120.6	4008.4	3256.0
35°	5286.2	5313.6	5234.2	5187.7	4916.8	4837.5	4851.2	4654.2	4328.6	4216.4	3436.6
37.5°	5600.9	5633.7	5565.3	5496.9	5223.3	5039.9	5037.2	4886.7	4566.6	4451.7	3636.3
40°	5773.2	5811.5	5852.6	5814.3	5527.0	5324.5	5236.9	5124.8	4801.9	4684.2	3852.5
42.5°	5855.3	5962.0	6035.9	6011.3	5776.0	5570.8	5466.8	5373.8	5089.2	4974.3	4109.7
45°	5625.5	5628.2	5784.2	5918.2	5874.5	5737.7	5718.5	5652.8	5417.5	5308.1	4399.7
47.5°	5338.2	5316.3	5425.7	5663.8	5786.9	5822.5	5934.7	5962.0	5792.4	5682.9	4695.2
50°	4648.7	4662.4	5018.1	5360.1	5600.9	5830.7	6087.9	6279.4	6178.2	6074.2	5007.1
52.5°	3781.3	3814.2	4221.8	4974.3	5354.6	5748.6	6178.2	6596.8	6572.2	6473.7	5319.0
55°	3031.6	3083.6	3515.9	4331.3	5039.9	5565.3	6216.5	6886.8	6979.9	6889.6	5625.5
57.5°	2317.5	2372.2	2736.1	3573.4	4637.7	5267.0	6189.1	7141.3	7360.2	7302.7	5907.3
60°	1745.6	1800.4	2032.9	2897.6	4134.3	4933.2	6052.3	7308.2	7702.2	7642.0	6112.5
62.5°	1250.4	1294.2	1466.6	2254.6	3521.4	4536.5	5715.8	7310.9	7896.5	7847.2	6211.0
65°	900.2	900.2	1039.7	1608.8	2946.8	4060.4	5206.9	6974.4	7855.4	7841.7	6142.6
67.5°	648.5	653.9	766.1	1124.5	2350.3	3483.1	4547.4	6375.2	7538.0	7606.4	5896.4
70°	459.7	473.4	525.3	785.3	1775.7	2749.8	3841.5	5589.9	6966.2	7086.6	5420.3
72.5°	355.7	363.9	399.5	547.2	1296.9	2043.9	3061.7	4714.3	6202.8	6339.6	4771.8
75°	273.6	281.8	309.2	402.2	930.3	1433.7	2175.2	3658.2	5001.6	5245.2	3833.3
77.5°	199.7	210.7	229.8	292.8	541.8	911.1	1318.8	2057.6	2760.8	2875.7	2008.3
80°	93.0	106.7	134.1	188.8	292.8	429.6	467.9	793.5	1327.0	1387.2	1089.0
82.5°	52.0	65.7	76.6	114.9	147.8	153.2	158.7	199.7	500.7	552.7	456.9
85°	24.6	32.8	35.6	49.3	49.3	43.8	52.0	38.3	82.1	98.5	95.8
87.5°	0.0	2.7	5.5	13.7	10.9	8.2	8.2	8.2	8.2	10.9	8.2
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: P841003

CATALOG NUMBER: ARCH4-120-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7	2377.7
2.5°	2394.1	2358.5	2276.5	2205.3	2158.8	2117.8	2063.0	2038.4	1994.6	2002.8	1978.2
5°	2407.8	2342.1	2197.1	2063.0	1964.5	1877.0	1781.2	1726.5	1666.3	1660.8	1641.7
7.5°	2416.0	2314.8	2106.8	1918.0	1767.5	1633.5	1504.9	1433.7	1359.9	1343.4	1327.0
10°	2407.8	2273.7	2013.8	1767.5	1567.8	1400.9	1255.9	1165.6	1089.0	1069.8	1053.4
12.5°	2416.0	2251.8	1926.2	1628.0	1390.0	1201.2	1037.0	944.0	872.8	853.7	842.7
15°	2435.2	2238.2	1852.4	1502.1	1231.3	1020.6	859.1	779.8	722.3	703.2	697.7
17.5°	2451.6	2224.5	1773.0	1379.0	1072.6	861.9	722.3	656.7	607.4	588.3	582.8
20°	2473.5	2205.3	1693.7	1261.4	933.0	736.0	612.9	555.4	517.1	503.4	500.7
22.5°	2492.6	2191.6	1619.8	1143.7	804.4	634.8	530.8	484.3	456.9	443.3	443.3
25°	2541.9	2197.1	1556.9	1034.3	708.7	555.4	467.9	432.3	410.4	402.2	402.2
27.5°	2599.3	2219.0	1507.6	941.2	626.6	495.2	424.1	394.0	383.1	372.1	374.8
30°	2681.4	2262.8	1474.8	864.6	566.4	448.7	388.5	366.6	355.7	353.0	353.0
32.5°	2785.4	2333.9	1472.0	815.4	522.6	413.2	363.9	344.8	339.3	336.5	336.5
35°	2908.5	2396.8	1455.6	793.5	495.2	388.5	344.8	331.1	328.3	328.3	328.3
37.5°	3056.3	2500.8	1444.7	763.4	481.6	374.8	331.1	320.1	320.1	320.1	320.1
40°	3209.5	2585.6	1428.3	736.0	476.1	366.6	322.9	309.2	309.2	309.2	309.2
42.5°	3392.8	2708.8	1422.8	722.3	467.9	361.2	311.9	295.5	298.2	298.2	301.0
45°	3614.4	2848.3	1420.1	708.7	465.1	355.7	301.0	281.8	284.6	281.8	281.8
47.5°	3838.8	3009.7	1428.3	700.4	462.4	350.2	292.8	268.1	268.1	265.4	265.4
50°	4074.1	3157.5	1433.7	692.2	456.9	339.3	279.1	257.2	251.7	246.3	249.0
52.5°	4295.7	3294.3	1436.5	678.6	440.5	322.9	268.1	243.5	235.3	227.1	229.8
55°	4517.3	3425.6	1441.9	662.1	418.6	306.4	254.5	229.8	218.9	207.9	207.9
57.5°	4717.1	3540.5	1428.3	621.1	394.0	290.0	240.8	213.4	197.0	186.1	186.1
60°	4853.9	3622.6	1387.2	560.9	361.2	270.9	227.1	197.0	177.8	169.6	169.6
62.5°	4919.6	3636.3	1313.3	462.4	320.1	251.7	210.7	180.6	164.2	158.7	158.7
65°	4856.6	3576.1	1198.4	347.5	276.3	229.8	194.3	166.9	150.5	136.8	136.8
67.5°	4637.7	3406.5	1039.7	262.7	235.3	207.9	177.8	153.2	134.1	123.1	123.1
70°	4197.2	3053.5	804.4	210.7	199.7	180.6	161.4	136.8	120.4	106.7	106.7
72.5°	3619.9	2588.4	566.4	169.6	169.6	153.2	136.8	120.4	104.0	93.0	93.0
75°	2777.2	1915.3	380.3	136.8	139.5	128.6	112.2	98.5	87.6	79.3	79.3
77.5°	1515.8	946.7	232.6	101.2	104.0	98.5	87.6	79.3	73.9	65.7	65.7
80°	736.0	415.9	134.1	71.1	73.9	71.1	65.7	57.5	57.5	52.0	52.0
82.5°	309.2	156.0	71.1	49.3	49.3	43.8	41.0	41.0	41.0	38.3	38.3
85°	76.6	30.1	30.1	27.4	27.4	27.4	24.6	24.6	24.6	19.2	21.9
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	8.2	2.7	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)