

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: P841082

Luminaire Tested: **ARCH4-130-727-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14784 lumens
Efficiency: N/A
Efficacy: 112.0 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

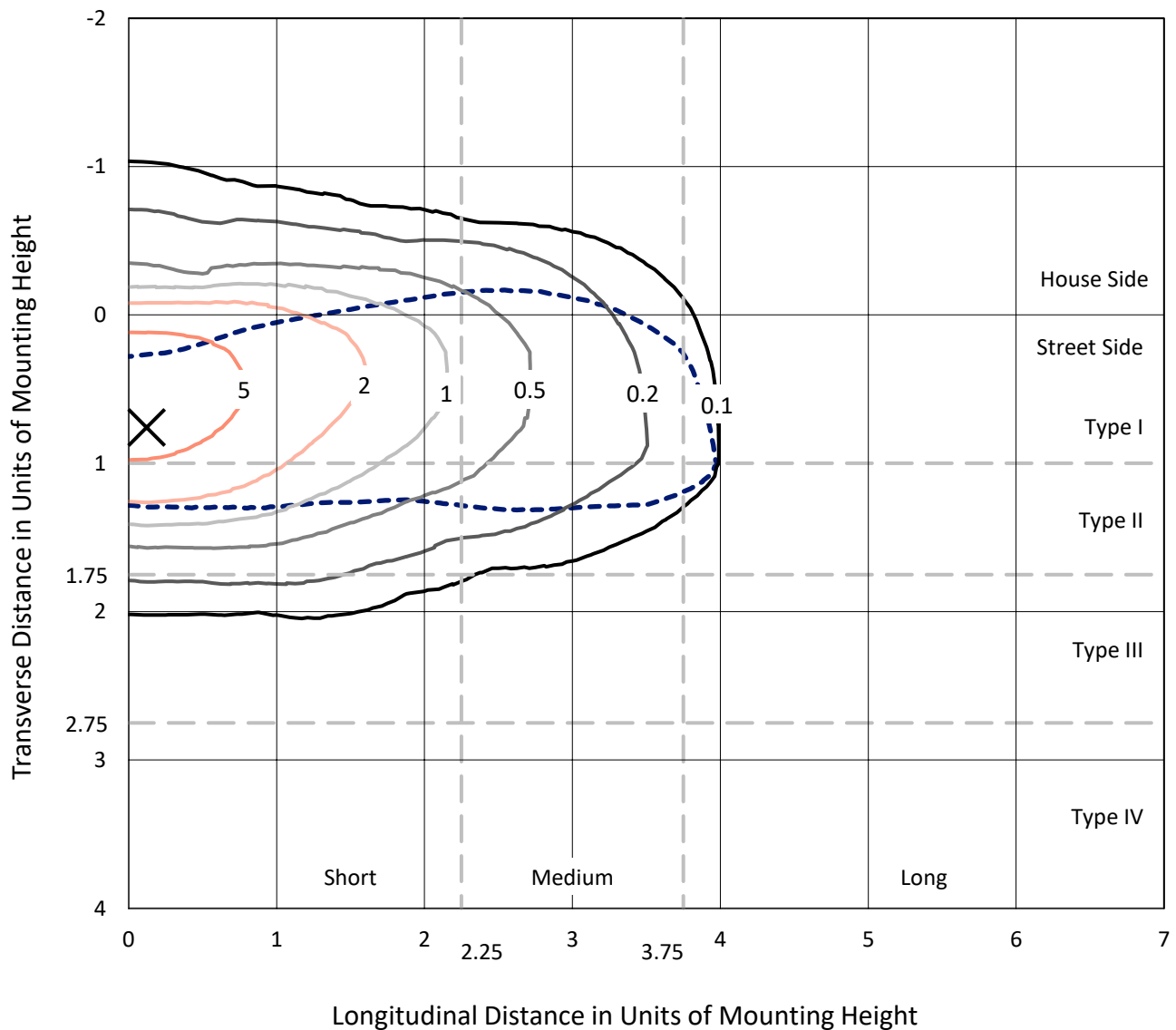
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841082
 CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

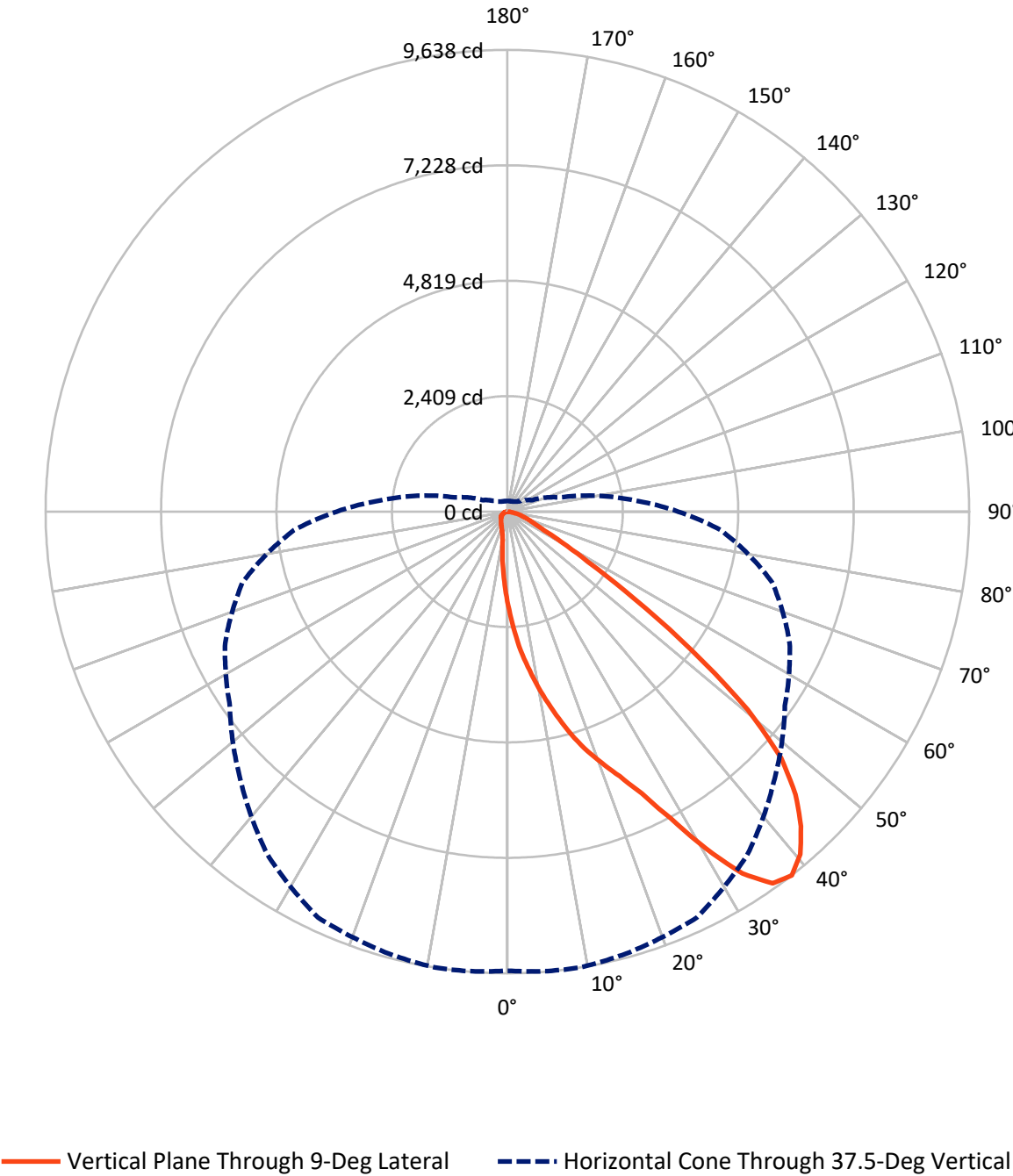
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P841082
CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841082

CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

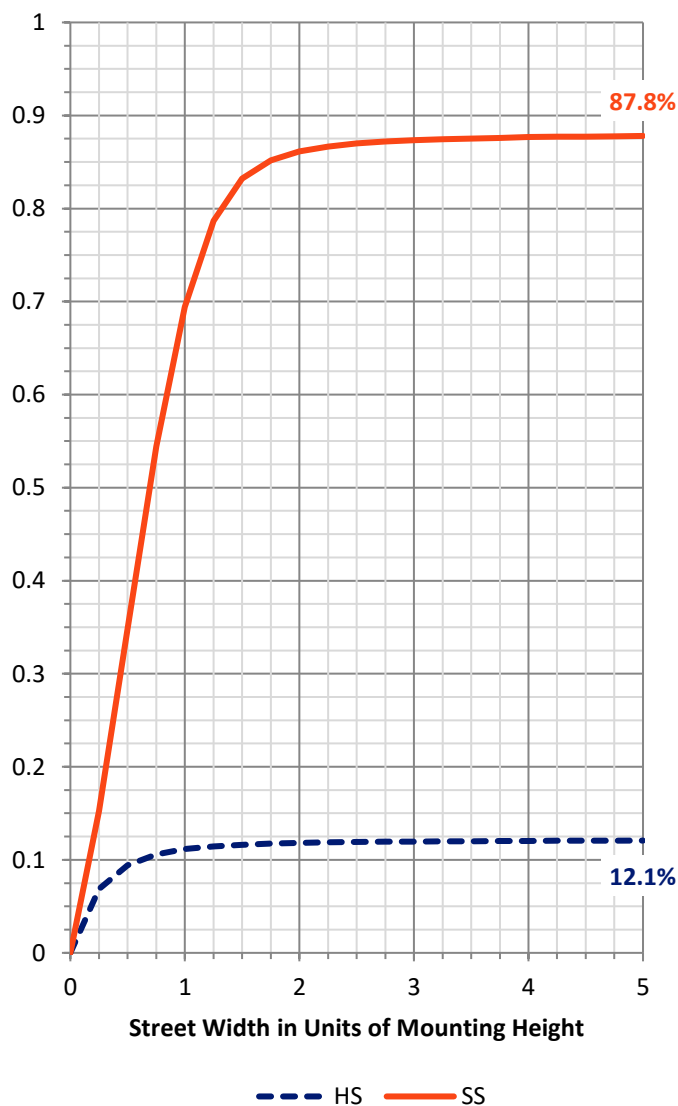
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1798.0	0.0	1798.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12986.0	0.0	12986.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	14784.0	0.0	14784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.3
10°-20°	682.7	4.6
20°-30°	1402.9	9.5
30°-40°	2479.7	16.8
40°-50°	3294.0	22.3
50°-60°	3124.2	21.1
60°-70°	2383.5	16.1
70°-80°	1155.5	7.8
80°-90°	65.0	0.4
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°	14784.0	100.0
0°-180°	14784.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841082

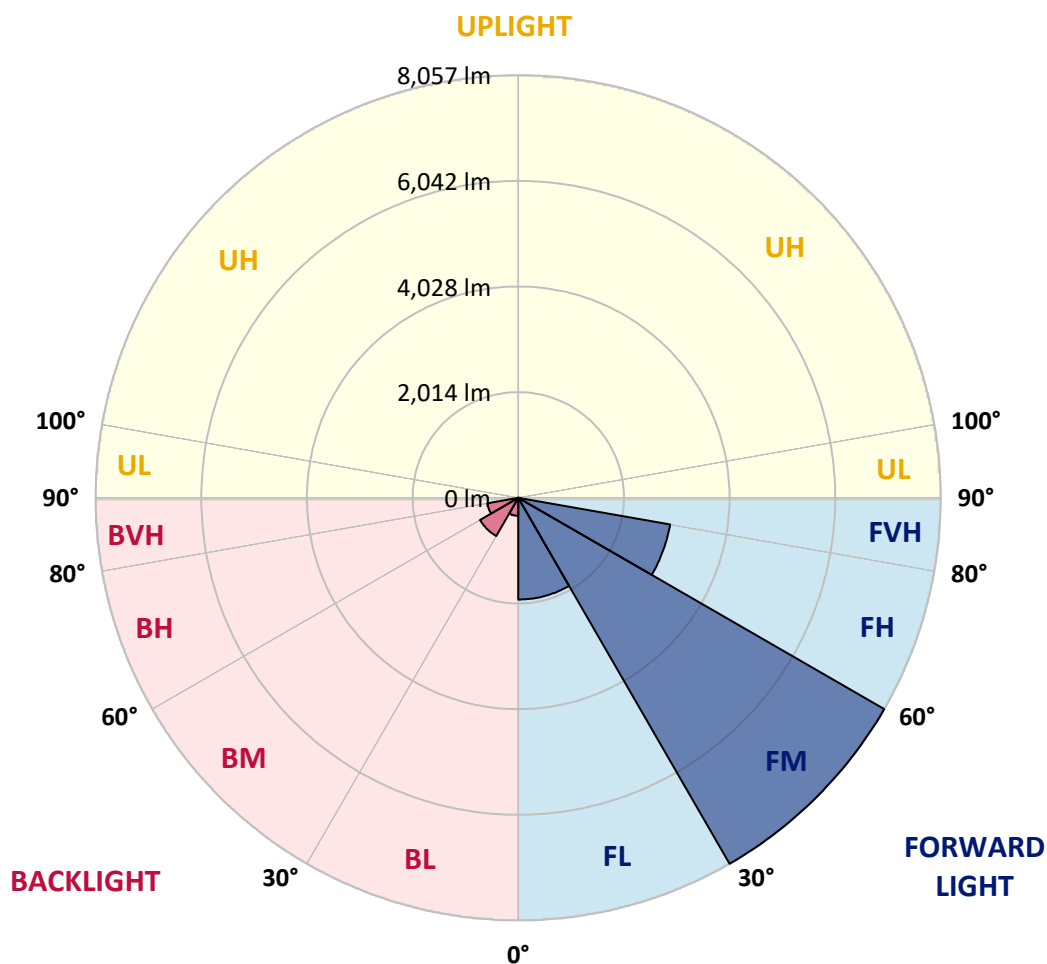
CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1938.9	13.1			
FM	(30°-60°)	8056.6	54.5			
FH	(60°-80°)	2939.0	19.9			G2/5000
FVH	(80°-90°)	51.5	0.3			G1/100
BL	(0°-30°)	343.1	2.3	B1/500		
BM	(30°-60°)	841.3	5.7	B1/1000		
BH	(60°-80°)	600.0	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.5	0.1			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: P841082

CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3
2.5°	2421.6	2379.1	2427.7	2421.6	2379.1	2351.8	2266.8	2239.5	2139.4	2066.5	2002.8
5°	2919.3	2876.8	2919.3	2907.1	2846.4	2779.7	2640.1	2549.0	2370.0	2212.2	2069.6
7.5°	3332.0	3332.0	3350.2	3353.2	3280.4	3177.2	3004.2	2867.7	2615.8	2373.0	2145.4
10°	3778.0	3781.1	3820.5	3793.2	3696.1	3556.5	3338.0	3165.1	2861.6	2543.0	2218.3
12.5°	4254.5	4257.5	4269.6	4257.5	4142.2	3963.2	3699.1	3471.6	3122.6	2737.2	2318.4
15°	4730.9	4733.9	4749.1	4727.9	4600.4	4391.0	4090.6	3811.4	3398.7	2955.7	2439.8
17.5°	5177.0	5183.1	5195.2	5167.9	5034.4	4785.5	4479.0	4142.2	3693.1	3189.3	2576.4
20°	5577.5	5583.6	5592.7	5556.3	5422.8	5173.9	4843.2	4491.2	3993.5	3429.1	2725.0
22.5°	5981.1	5987.2	6002.4	5953.8	5805.1	5519.9	5195.2	4831.0	4312.1	3693.1	2898.0
25°	6497.0	6503.1	6515.2	6445.4	6242.1	5908.3	5565.4	5192.2	4658.1	3990.5	3110.4
27.5°	7252.6	7246.6	7246.6	7119.1	6770.1	6336.2	5938.7	5559.3	5031.3	4309.1	3344.1
30°	8187.3	8172.1	8163.0	7990.0	7492.4	6818.7	6321.0	5902.2	5389.4	4645.9	3596.0
32.5°	9024.8	9024.8	9006.6	8824.5	8296.5	7468.1	6727.7	6236.1	5735.3	4985.8	3856.9
35°	9519.5	9540.7	9531.6	9395.0	9009.7	8166.0	7276.9	6636.6	6099.5	5340.9	4169.5
37.5°	9586.2	9628.7	9637.8	9555.9	9352.6	8736.5	7886.9	7070.6	6500.1	5723.2	4473.0
40°	9316.1	9407.2	9407.2	9395.0	9322.2	9006.6	8399.7	7574.3	6912.8	6120.7	4779.5
42.5°	8900.4	8994.5	8982.3	9027.9	9009.7	8942.9	8688.0	8044.7	7325.5	6530.4	5058.6
45°	8357.2	8454.3	8430.0	8512.0	8548.4	8621.2	8657.6	8372.4	7732.1	6976.5	5371.2
47.5°	7486.3	7650.2	7686.6	7832.2	7984.0	8211.6	8384.5	8490.7	8111.4	7455.9	5711.1
50°	6199.6	6430.3	6503.1	6809.6	7225.3	7695.7	7974.9	8345.1	8378.5	7947.6	6078.3
52.5°	4439.6	4706.6	4818.9	5322.6	6178.4	6997.7	7501.5	8023.4	8481.6	8417.9	6475.8
55°	2870.7	3098.3	3207.5	3680.9	4818.9	6105.6	6943.1	7607.7	8424.0	8848.8	6931.0
57.5°	1769.2	1899.6	1972.5	2379.1	3426.0	4961.5	6211.8	7225.3	8248.0	9222.1	7404.4
60°	1192.6	1268.5	1304.9	1496.0	2327.5	3708.2	5207.3	6824.8	8017.3	9473.9	7835.3
62.5°	792.0	816.3	852.7	971.1	1535.5	2603.7	3999.6	6108.6	7844.4	9489.1	8153.9
65°	613.0	625.1	640.3	691.9	946.8	1820.7	2813.1	4949.4	7586.4	9167.4	8254.0
67.5°	482.5	494.6	512.8	540.2	685.8	1235.1	1914.8	3626.3	7058.4	8663.7	8090.2
70°	379.3	388.4	400.6	424.8	534.1	895.2	1265.4	2409.5	5993.3	8184.2	7574.3
72.5°	300.4	309.5	321.7	345.9	433.9	655.5	867.9	1502.1	4621.7	7598.6	6582.0
75°	236.7	242.8	251.9	276.1	349.0	509.8	588.7	898.2	3140.8	6527.4	5128.4
77.5°	118.3	145.7	166.9	191.2	254.9	352.0	391.5	497.7	1326.1	3350.2	2445.9
80°	69.8	85.0	91.0	106.2	166.9	212.4	212.4	200.3	418.8	1286.7	998.4
82.5°	39.4	54.6	57.7	60.7	100.1	121.4	97.1	72.8	85.0	430.9	291.3
85°	12.1	18.2	21.2	24.3	33.4	36.4	33.4	30.3	24.3	42.5	27.3
87.5°	0.0	0.0	0.0	0.0	3.0	6.1	6.1	6.1	9.1	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

REPORT NUMBER: P841082

CATALOG NUMBER: ARCH4-130-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3	1954.3
2.5°	1966.4	1927.0	1851.1	1781.3	1714.5	1666.0	1620.5	1578.0	1547.6	1523.4	1520.3
5°	1993.7	1914.8	1769.2	1632.6	1508.2	1405.0	1317.0	1247.2	1195.6	1159.2	1156.2
7.5°	2030.1	1908.7	1687.2	1483.9	1298.8	1150.1	1022.7	928.6	861.8	834.5	813.3
10°	2060.5	1902.7	1605.3	1335.2	1092.4	904.3	752.6	658.5	609.9	591.7	582.6
12.5°	2112.1	1908.7	1535.5	1198.7	913.4	691.9	576.6	525.0	503.7	488.6	485.5
15°	2187.9	1936.1	1468.7	1065.1	731.3	558.4	491.6	458.2	437.0	433.9	430.9
17.5°	2263.8	1960.3	1408.0	928.6	606.9	485.5	440.0	412.7	397.5	394.5	394.5
20°	2351.8	1990.7	1341.3	798.1	518.9	437.0	400.6	379.3	361.1	358.1	358.1
22.5°	2455.0	2033.2	1277.6	682.8	461.3	400.6	370.2	345.9	330.8	327.7	327.7
25°	2594.6	2096.9	1226.0	597.8	421.8	370.2	342.9	321.7	309.5	303.5	303.5
27.5°	2749.3	2184.9	1189.6	546.2	394.5	345.9	318.6	300.4	288.3	282.2	282.2
30°	2922.3	2282.0	1165.3	525.0	379.3	324.7	300.4	282.2	267.0	264.0	264.0
32.5°	3113.5	2394.3	1150.1	528.0	376.3	309.5	282.2	264.0	251.9	245.8	245.8
35°	3325.9	2518.7	1141.0	546.2	382.4	297.4	267.0	248.8	236.7	230.6	230.6
37.5°	3562.6	2664.4	1141.0	564.4	397.5	294.4	251.9	233.7	224.6	218.5	218.5
40°	3784.1	2819.1	1153.1	585.7	412.7	294.4	239.7	224.6	212.4	206.4	206.4
42.5°	3957.1	2907.1	1162.2	606.9	421.8	291.3	227.6	212.4	203.3	197.2	197.2
45°	4154.3	3001.2	1144.0	616.0	421.8	285.2	218.5	203.3	194.2	188.1	188.1
47.5°	4372.8	3116.5	1141.0	622.1	412.7	273.1	209.4	194.2	188.1	182.1	182.1
50°	4594.3	3244.0	1147.1	619.1	400.6	254.9	197.2	188.1	179.0	173.0	173.0
52.5°	4846.2	3377.5	1159.2	613.0	373.3	233.7	188.1	179.0	169.9	163.9	160.8
55°	5125.4	3523.1	1183.5	600.8	336.8	212.4	179.0	169.9	157.8	151.7	148.7
57.5°	5447.1	3702.2	1210.8	576.6	297.4	194.2	169.9	157.8	139.6	130.5	127.5
60°	5753.6	3905.5	1241.1	518.9	257.9	176.0	160.8	142.6	124.4	118.3	115.3
62.5°	6041.8	4105.8	1256.3	415.7	218.5	160.8	151.7	130.5	112.3	106.2	103.2
65°	6226.9	4324.3	1222.9	282.2	179.0	148.7	139.6	121.4	103.2	94.1	94.1
67.5°	6239.1	4427.4	1107.6	185.1	145.7	133.5	127.5	109.2	91.0	85.0	81.9
70°	5932.6	4272.7	846.6	145.7	121.4	115.3	115.3	97.1	78.9	72.8	69.8
72.5°	5228.6	3784.1	540.2	118.3	103.2	97.1	97.1	81.9	69.8	60.7	57.7
75°	4127.0	2919.3	288.3	97.1	85.0	81.9	75.9	66.8	57.7	51.6	48.6
77.5°	1896.6	1286.7	133.5	69.8	63.7	63.7	57.7	48.6	45.5	39.4	39.4
80°	749.5	437.0	66.8	45.5	42.5	42.5	42.5	33.4	33.4	27.3	24.3
82.5°	206.4	91.0	33.4	27.3	27.3	27.3	24.3	21.2	21.2	18.2	18.2
85°	21.2	15.2	15.2	15.2	15.2	12.1	12.1	9.1	6.1	6.1	6.1
87.5°	9.1	9.1	9.1	9.1	9.1	6.1	3.0	0.0	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)