

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: P841086

Luminaire Tested: **ARCH4-130-727-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14408 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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



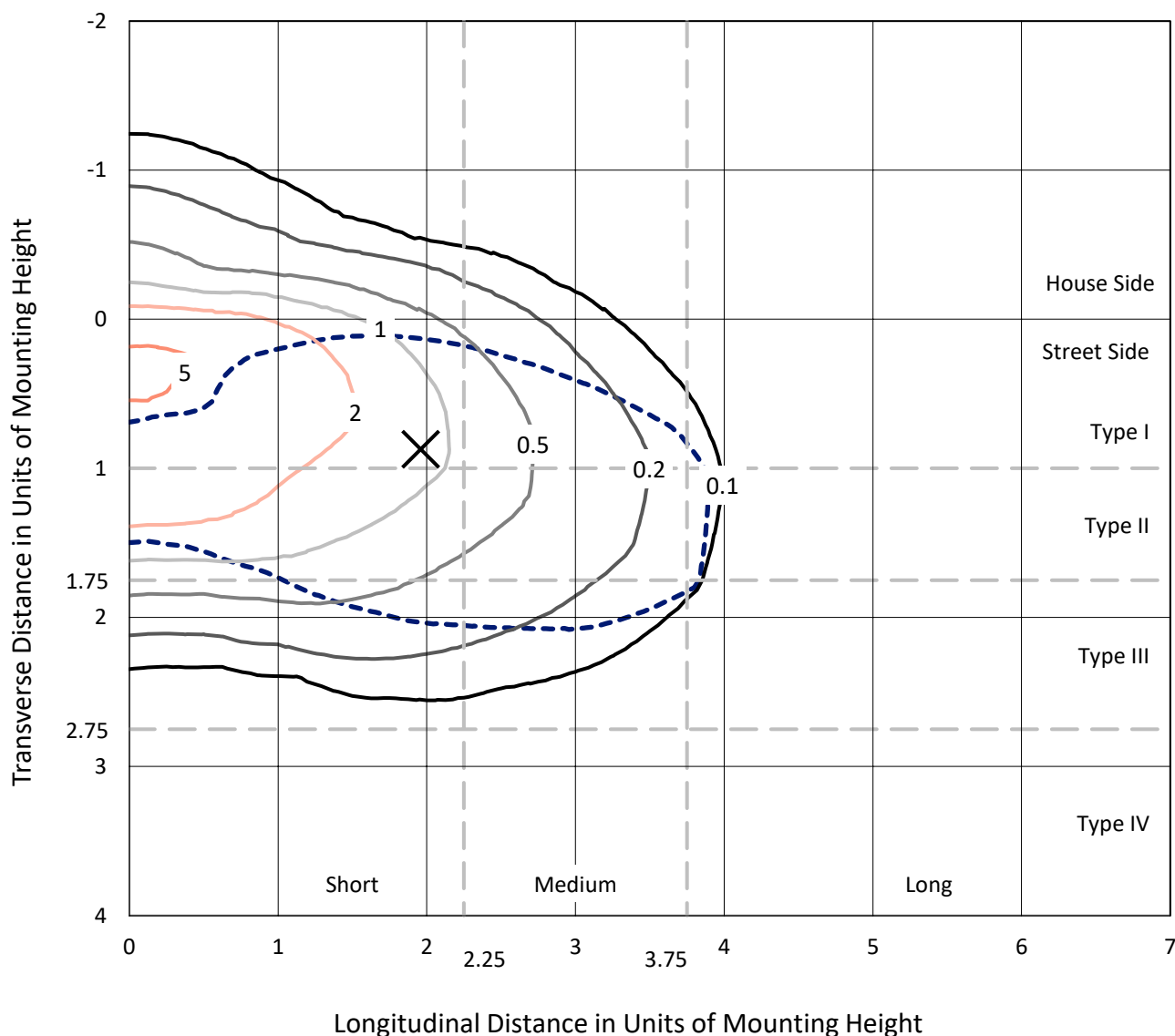
REPORT NUMBER: P841086

CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

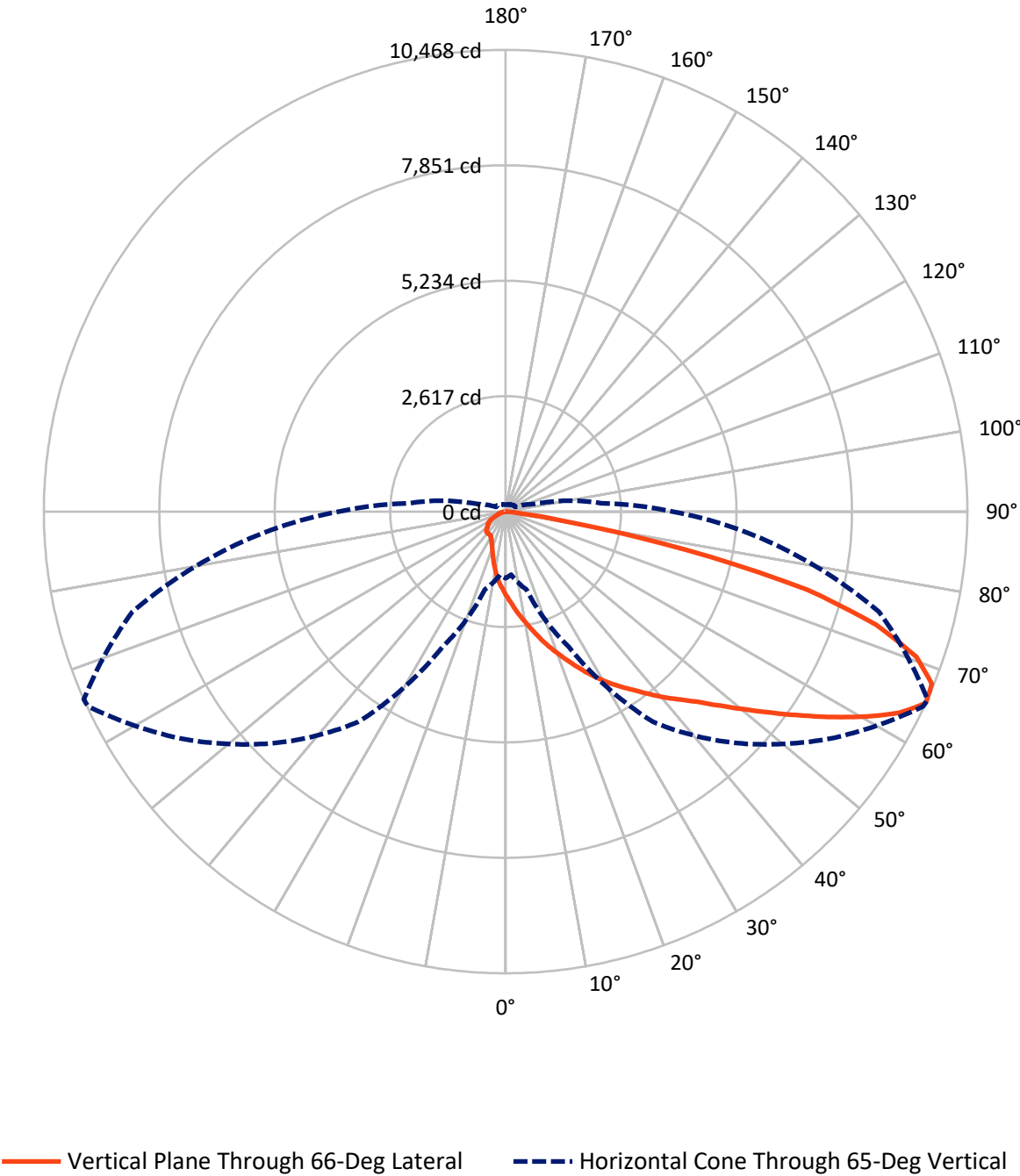


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type III - Short - N/A

REPORT NUMBER: P841086
CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841086

CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

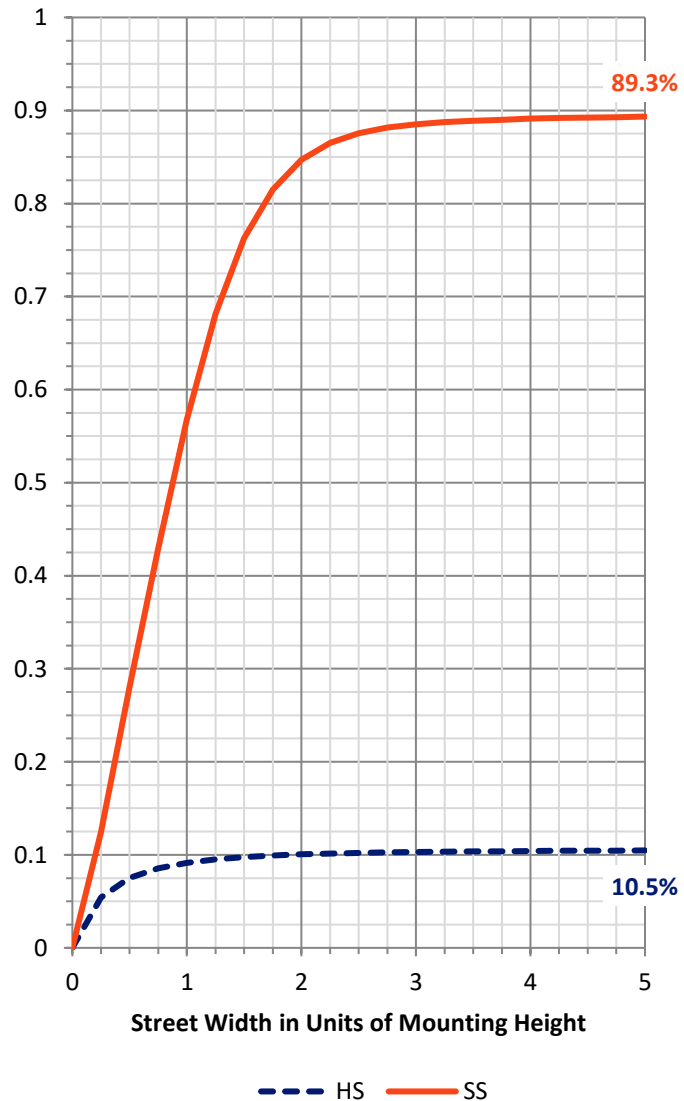
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1524.0	0.0	1524.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12884.0	0.0	12884.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	14408.0	0.0	14408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.3
10°-20°	613.4	4.3
20°-30°	1109.8	7.7
30°-40°	1735.5	12.0
40°-50°	2632.8	18.3
50°-60°	3345.0	23.2
60°-70°	3125.6	21.7
70°-80°	1553.4	10.8
80°-90°	104.4	0.7
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°	14408.0	100.0
0°-180°	14408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841086

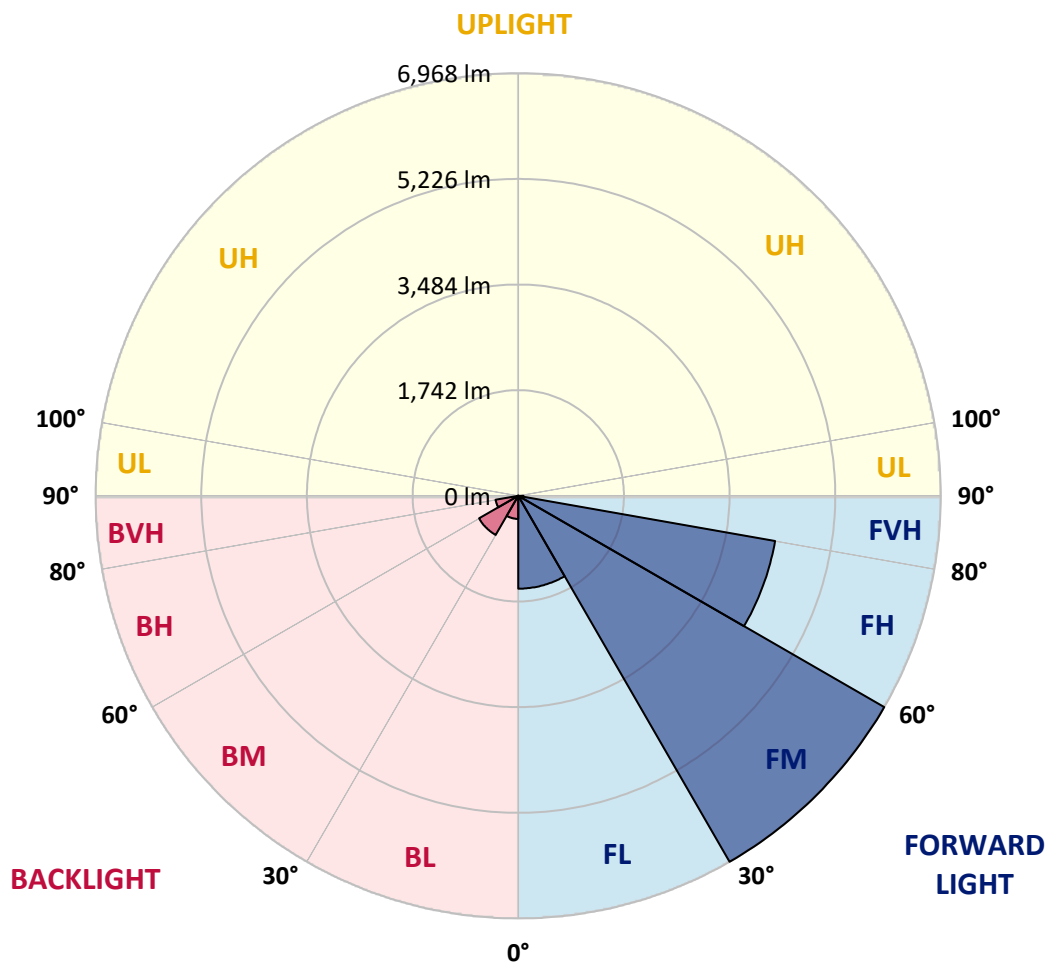
CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1530.9	10.6			
FM	(30°-60°)	6967.9	48.4			
FH	(60°-80°)	4299.4	29.8			G2/5000
FVH	(80°-90°)	85.9	0.6			G1/100
BL	(0°-30°)	380.6	2.6	B1/500		
BM	(30°-60°)	745.4	5.2	B1/1000		
BH	(60°-80°)	379.5	2.6	B1/500		G1/500
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P841086

CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8
2.5°	2227.1	2245.3	2254.3	2257.4	2187.9	2157.6	2127.4	2057.9	2042.8	2003.5	1952.1
5°	2620.0	2644.2	2638.1	2626.0	2541.4	2444.7	2366.1	2236.2	2215.1	2121.4	2006.5
7.5°	3006.8	3027.9	3021.9	2976.6	2882.9	2746.9	2617.0	2426.6	2396.4	2245.3	2060.9
10°	3330.1	3348.3	3345.2	3299.9	3188.1	3021.9	2864.8	2610.9	2574.7	2360.1	2106.3
12.5°	3596.1	3620.2	3617.2	3587.0	3487.3	3306.0	3127.7	2822.5	2777.1	2499.1	2169.7
15°	3804.6	3834.8	3834.8	3822.7	3753.2	3602.1	3399.6	3055.1	3000.7	2659.3	2248.3
17.5°	3931.5	3955.7	3976.8	3998.0	3949.6	3834.8	3650.5	3287.8	3230.4	2816.4	2329.9
20°	3998.0	4022.2	4037.3	4082.6	4091.7	4034.2	3889.2	3517.5	3457.1	2994.7	2423.6
22.5°	4106.8	4127.9	4130.9	4170.2	4188.4	4203.5	4112.8	3744.1	3695.8	3191.1	2529.3
25°	4288.1	4312.3	4303.2	4321.3	4324.3	4342.5	4333.4	4004.0	3955.7	3414.7	2656.3
27.5°	4520.8	4551.0	4544.9	4526.8	4499.6	4484.5	4523.8	4266.9	4221.6	3638.4	2786.2
30°	4771.6	4807.8	4798.8	4762.5	4690.0	4626.5	4680.9	4514.7	4472.4	3868.0	2931.2
32.5°	5025.4	5067.7	5064.7	5004.3	4880.4	4771.6	4853.2	4747.4	4717.2	4115.8	3088.4
35°	5191.6	5246.0	5240.0	5203.7	5043.6	4949.9	5049.6	4986.1	4965.0	4418.0	3315.0
37.5°	5460.6	5518.0	5466.6	5376.0	5191.6	5143.3	5264.2	5255.1	5240.0	4738.3	3553.8
40°	6113.3	6197.9	6061.9	5690.2	5388.1	5345.7	5518.0	5554.3	5539.1	5055.6	3768.3
42.5°	6796.3	6923.2	6711.6	6197.9	5744.6	5590.5	5796.0	5847.4	5829.2	5327.6	3961.7
45°	7210.3	7264.7	7053.1	6654.2	6376.2	5886.7	6092.2	6176.8	6161.7	5654.0	4209.5
47.5°	7548.7	7527.6	7285.8	7016.9	7068.2	6303.7	6427.6	6593.8	6581.7	6013.6	4481.5
50°	7621.2	7572.9	7476.2	7307.0	7442.9	6726.8	6781.1	7068.2	7056.1	6412.5	4756.5
52.5°	7110.5	7047.1	7310.0	7452.0	7406.7	7035.0	7171.0	7588.0	7582.0	6844.6	5019.4
55°	5835.3	5783.9	6491.0	7225.4	7367.4	7252.6	7603.1	8128.9	8162.2	7303.9	5258.1
57.5°	4590.3	4535.9	5230.9	6657.2	7222.3	7452.0	8107.8	8748.4	8790.7	7802.5	5484.8
60°	3659.5	3577.9	4109.8	5762.8	6950.4	7606.1	8594.3	9428.3	9434.4	8258.9	5623.8
62.5°	2487.0	2396.4	2985.6	4629.6	6494.1	7630.3	8969.0	10014.6	10038.8	8600.3	5647.9
65°	1511.0	1435.4	1834.3	3381.5	5820.2	7424.8	8975.0	10446.7	10467.9	8757.5	5502.9
67.5°	876.4	846.1	1048.6	2106.3	4702.1	6871.8	8597.3	10380.2	10419.5	8691.0	5173.5
70°	510.7	507.7	583.2	1042.6	3318.0	5774.9	7754.2	9821.2	9878.6	8343.5	4668.8
72.5°	374.7	380.8	411.0	559.1	1921.9	4158.1	6566.6	8697.0	8784.7	7663.5	3949.6
75°	296.1	299.2	326.4	380.8	1009.3	2351.0	4919.7	6980.6	7050.1	6451.8	3085.4
77.5°	220.6	226.6	247.8	268.9	468.4	1078.8	2768.1	4300.2	4185.3	3541.7	1489.8
80°	160.2	175.3	184.3	193.4	247.8	417.0	831.0	1498.9	1486.8	1547.2	704.1
82.5°	102.7	114.8	123.9	129.9	148.1	199.4	247.8	335.4	362.6	601.4	281.0
85°	45.3	51.4	57.4	69.5	63.5	69.5	102.7	66.5	57.4	90.7	51.4
87.5°	0.0	0.0	9.1	15.1	12.1	6.0	18.1	12.1	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: P841086

CATALOG NUMBER: ARCH4-130-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8	1906.8
2.5°	1925.0	1891.7	1822.2	1755.7	1716.4	1665.1	1619.7	1577.4	1574.4	1562.3	1541.2
5°	1949.1	1885.7	1755.7	1631.8	1538.1	1438.4	1353.8	1287.3	1263.2	1245.0	1220.8
7.5°	1973.3	1873.6	1680.2	1498.9	1350.8	1211.8	1112.1	1021.4	994.2	970.0	954.9
10°	1982.4	1852.4	1592.5	1350.8	1157.4	1009.3	903.5	837.1	812.9	800.8	791.7
12.5°	2009.6	1840.3	1511.0	1211.8	988.2	852.2	776.6	737.3	728.3	719.2	710.1
15°	2045.8	1840.3	1429.4	1075.8	855.2	746.4	701.1	673.9	667.8	664.8	658.8
17.5°	2085.1	1840.3	1350.8	961.0	758.5	676.9	643.7	628.6	625.5	622.5	619.5
20°	2139.5	1843.4	1266.2	861.2	689.0	625.5	598.3	580.2	577.2	574.2	574.2
22.5°	2193.9	1849.4	1184.6	785.7	643.7	586.2	553.0	534.9	528.8	528.8	528.8
25°	2263.4	1867.5	1109.0	722.2	604.4	550.0	507.7	492.6	489.5	489.5	486.5
27.5°	2345.0	1888.7	1042.6	673.9	565.1	507.7	465.4	450.3	444.2	444.2	441.2
30°	2432.6	1909.8	988.2	637.6	525.8	465.4	426.1	408.0	401.9	404.9	401.9
32.5°	2529.3	1940.1	945.9	613.4	489.5	429.1	392.8	371.7	368.7	368.7	365.7
35°	2692.5	2024.7	939.8	601.4	459.3	401.9	365.7	344.5	341.5	341.5	338.5
37.5°	2867.8	2121.4	967.0	595.3	435.2	377.7	344.5	323.3	320.3	320.3	320.3
40°	3015.9	2193.9	997.2	595.3	420.0	356.6	326.4	308.2	308.2	308.2	308.2
42.5°	3115.6	2199.9	991.2	595.3	408.0	341.5	314.3	296.1	296.1	299.2	296.1
45°	3263.7	2230.2	967.0	586.2	398.9	329.4	302.2	287.1	284.1	287.1	287.1
47.5°	3438.9	2284.6	942.8	550.0	395.9	317.3	293.1	275.0	272.0	275.0	272.0
50°	3605.1	2332.9	930.7	501.6	389.8	305.2	281.0	262.9	259.9	262.9	259.9
52.5°	3744.1	2354.1	909.6	468.4	374.7	293.1	268.9	250.8	244.8	247.8	247.8
55°	3855.9	2348.0	879.4	441.2	347.5	281.0	253.8	238.7	229.7	229.7	226.6
57.5°	3958.7	2351.0	852.2	414.0	317.3	262.9	241.8	223.6	211.5	208.5	205.5
60°	3998.0	2335.9	803.8	377.7	287.1	247.8	226.6	205.5	193.4	190.4	187.4
62.5°	3943.6	2281.5	740.4	314.3	259.9	229.7	211.5	190.4	178.3	175.3	172.2
65°	3789.5	2178.8	643.7	247.8	235.7	208.5	193.4	178.3	163.2	157.1	154.1
67.5°	3526.6	2030.7	522.8	199.4	208.5	190.4	181.3	163.2	145.1	139.0	136.0
70°	3151.8	1834.3	392.8	169.2	184.3	169.2	163.2	145.1	129.9	123.9	120.9
72.5°	2626.0	1517.0	275.0	145.1	160.2	148.1	142.0	129.9	114.8	105.8	105.8
75°	1985.4	1087.9	181.3	123.9	133.0	126.9	117.9	108.8	99.7	93.7	90.7
77.5°	855.2	423.1	111.8	93.7	108.8	105.8	93.7	87.6	84.6	78.6	78.6
80°	368.7	172.2	69.5	69.5	78.6	75.5	72.5	66.5	66.5	63.5	60.4
82.5°	136.0	69.5	42.3	51.4	57.4	51.4	51.4	51.4	51.4	48.4	48.4
85°	33.2	21.2	21.2	30.2	33.2	30.2	33.2	30.2	30.2	30.2	27.2
87.5°	9.1	9.1	12.1	12.1	12.1	12.1	12.1	9.1	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)