

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: P841088

Luminaire Tested: **ARCH4-130-727-U-T4W-HSS**

Issue Date: 5/27/2024

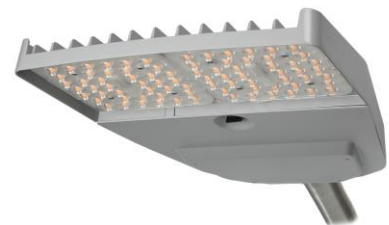
Test Information

Test Method: LM-79-08
Report Number: P841088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14697 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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



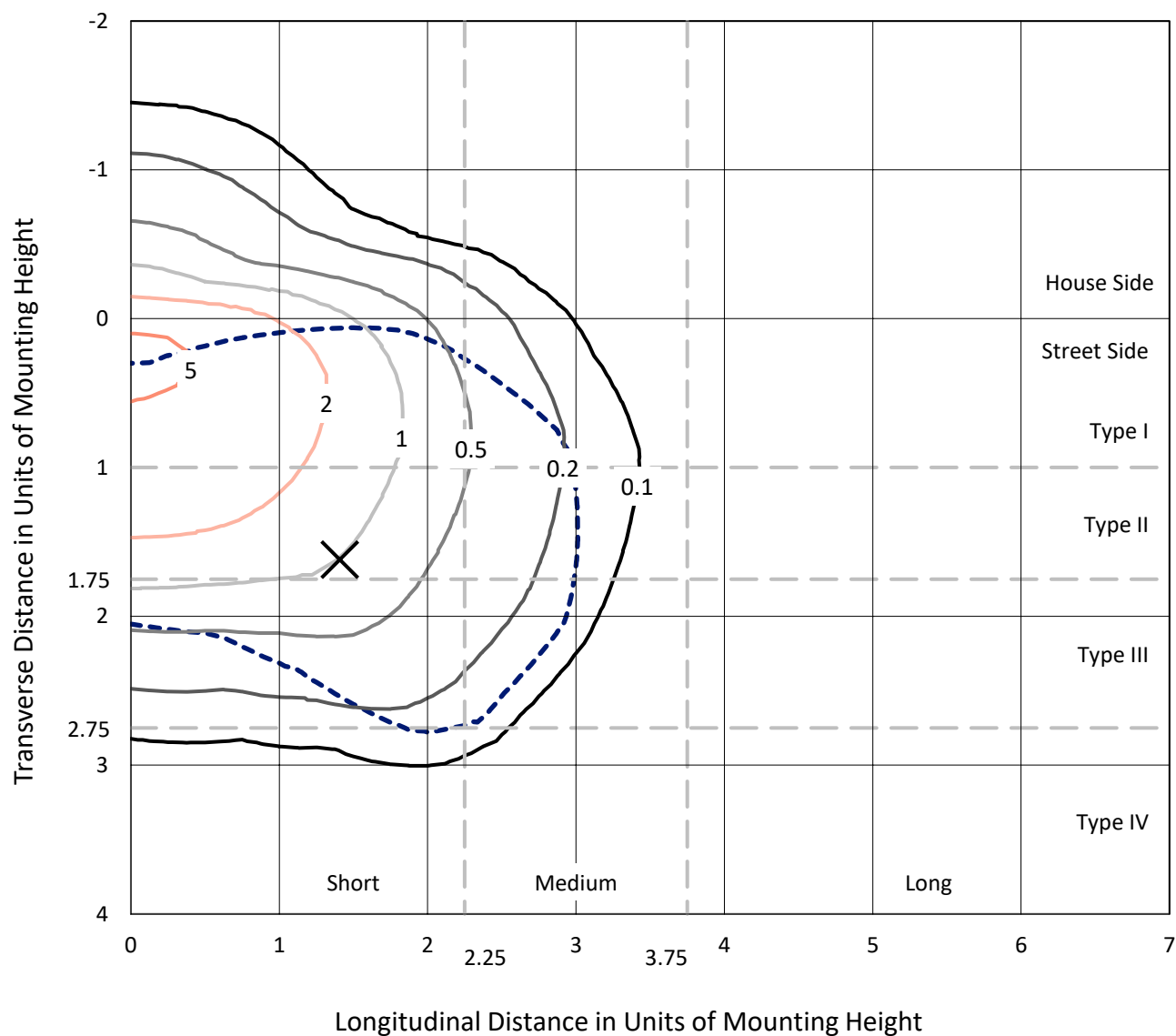
REPORT NUMBER: P841088

CATALOG NUMBER: ARCH4-130-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

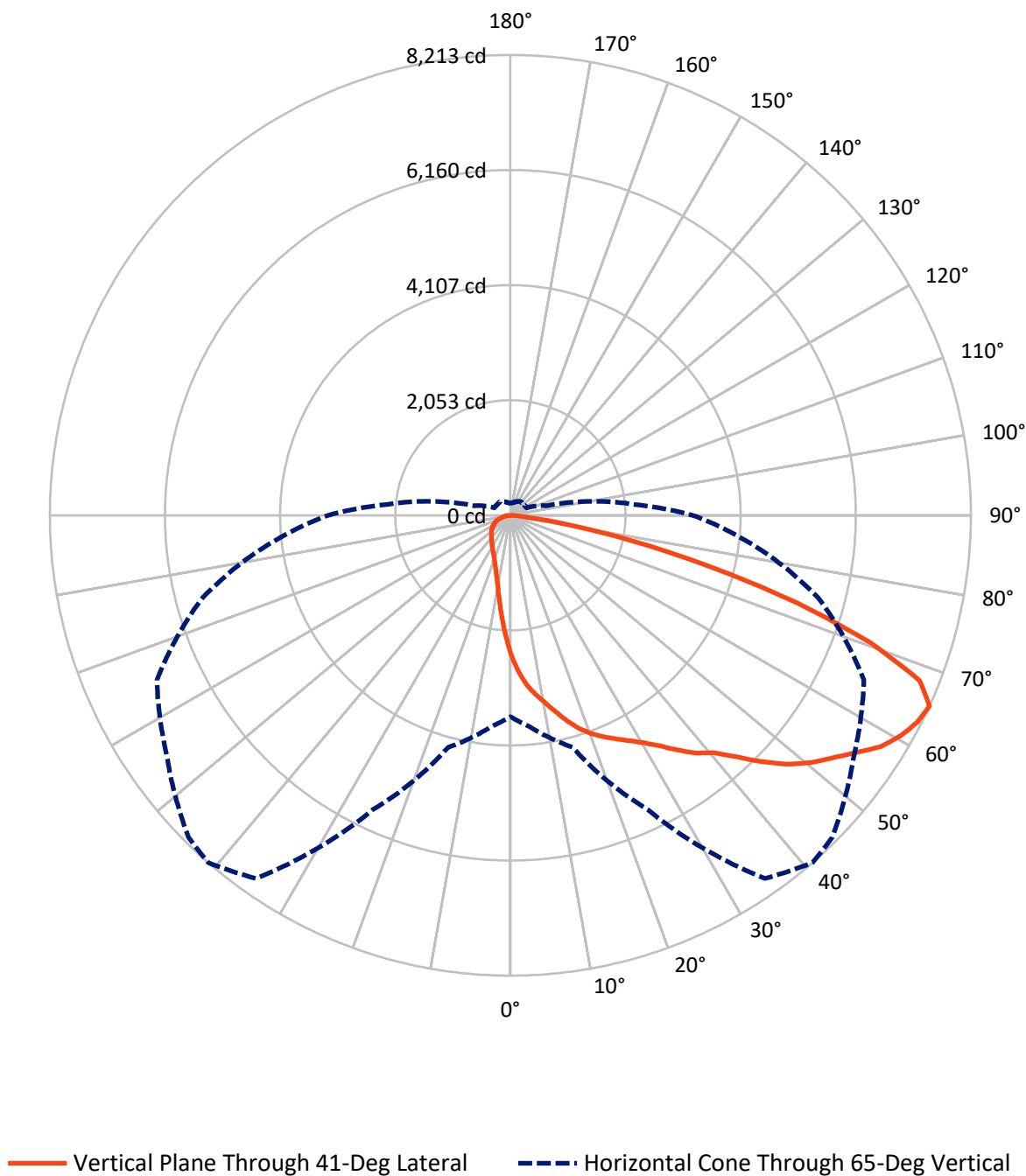


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc

Type III - Short - N/A

REPORT NUMBER: P841088
CATALOG NUMBER: ARCH4-130-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841088

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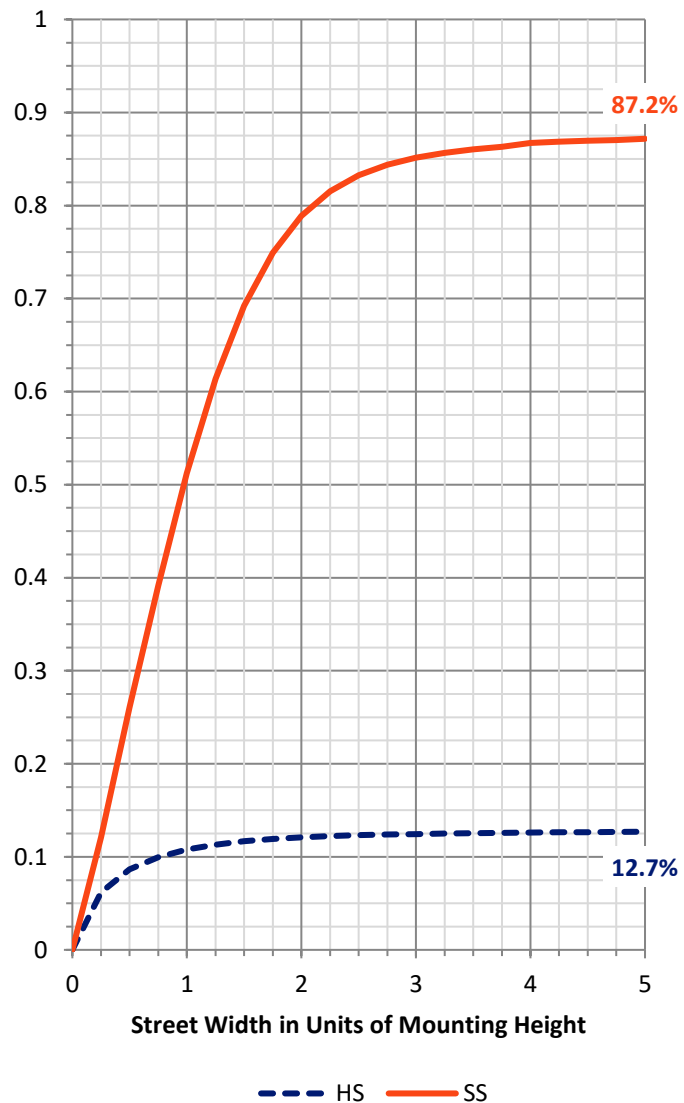
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.9	0.0	1886.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12810.1	0.0	12810.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	14697.0	0.0	14697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.6
10°-20°	699.7	4.8
20°-30°	1203.7	8.2
30°-40°	1825.6	12.4
40°-50°	2674.5	18.2
50°-60°	3377.3	23.0
60°-70°	3166.9	21.5
70°-80°	1411.5	9.6
80°-90°	104.6	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°	14697.0	100.0
0°-180°	14697.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841088

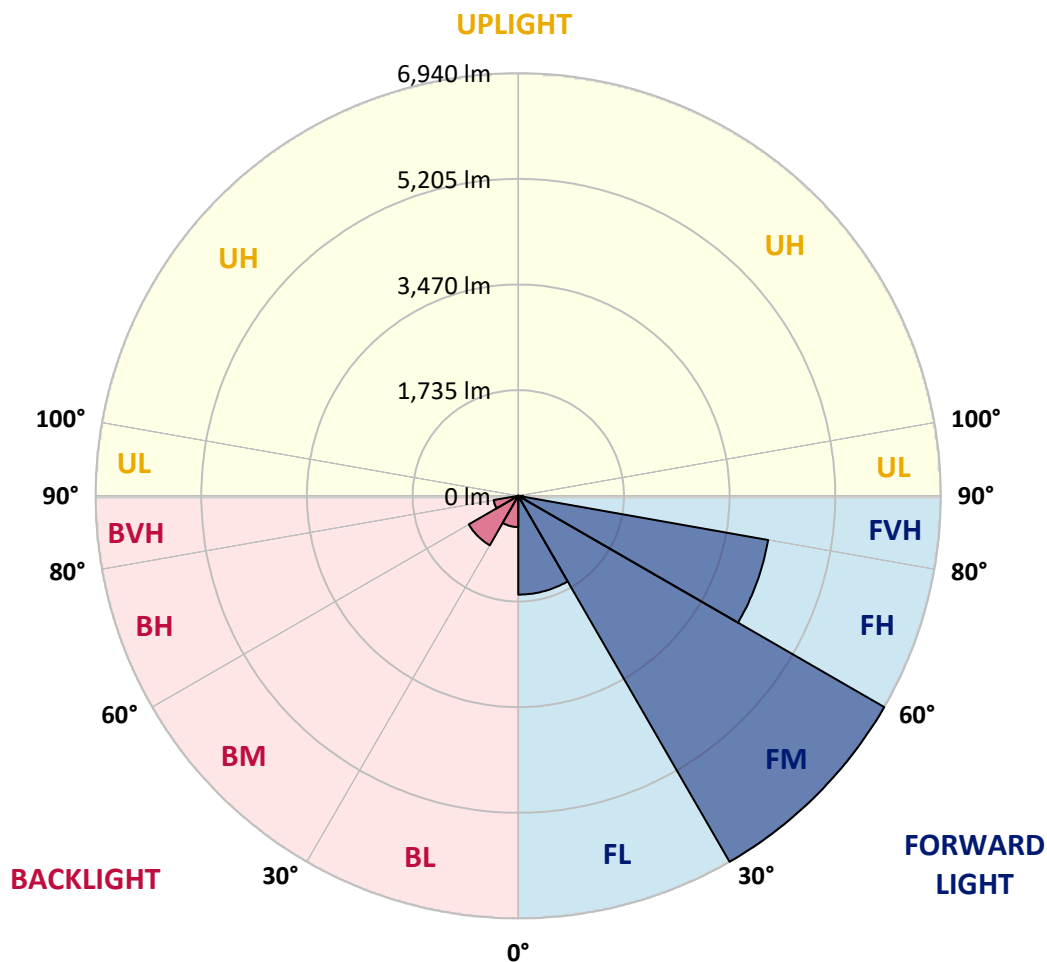
CATALOG NUMBER: ARCH4-130-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.1	11.0			
FM	(30°-60°)	6940.5	47.2			
FH	(60°-80°)	4168.4	28.4			G2/5000
FVH	(80°-90°)	78.1	0.5			G1/100
BL	(0°-30°)	513.6	3.5	B2/1000		
BM	(30°-60°)	936.9	6.4	B1/1000		
BH	(60°-80°)	409.9	2.8	B1/500		G1/500
BVH	(80°-90°)	26.5	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 III Short



REPORT NUMBER: P841088

CATALOG NUMBER: ARCH4-130-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2888.6	2879.3	2873.1	2839.0	2839.0	2792.5	2795.6	2752.2	2699.6	2615.9	2526.0
5°	3161.4	3149.0	3133.5	3099.4	3087.0	3040.5	3034.3	2972.3	2882.4	2736.7	2575.6
7.5°	3400.0	3387.6	3365.9	3316.3	3282.2	3226.4	3210.9	3130.4	3031.2	2851.4	2625.2
10°	3617.0	3607.7	3579.8	3517.8	3471.3	3403.1	3375.2	3266.7	3142.8	2944.4	2665.5
12.5°	3837.0	3824.6	3787.4	3734.7	3679.0	3598.4	3564.3	3424.8	3266.7	3046.7	2724.3
15°	4041.6	4023.0	3995.1	3939.3	3889.7	3812.2	3775.0	3610.8	3418.6	3161.4	2801.8
17.5°	4174.9	4159.4	4134.6	4103.6	4063.3	4004.4	3967.2	3806.0	3570.5	3272.9	2882.4
20°	4255.4	4249.2	4239.9	4221.3	4202.7	4162.5	4134.6	3982.7	3734.7	3381.4	2959.9
22.5°	4317.4	4311.2	4308.1	4308.1	4311.2	4295.7	4277.1	4147.0	3892.8	3496.1	3031.2
25°	4413.5	4410.4	4404.2	4398.0	4419.7	4422.8	4416.6	4326.7	4091.2	3648.0	3121.1
27.5°	4546.8	4537.5	4525.1	4518.9	4540.6	4556.1	4568.5	4506.5	4301.9	3802.9	3223.3
30°	4751.3	4723.4	4692.4	4670.8	4686.2	4711.0	4738.9	4701.7	4518.9	3995.1	3328.7
32.5°	4993.1	4959.0	4887.7	4847.4	4887.7	4906.3	4928.0	4909.4	4745.1	4202.7	3434.1
35°	5287.5	5247.2	5172.9	5114.0	5185.2	5145.0	5135.7	5117.1	4959.0	4407.3	3551.9
37.5°	5777.2	5718.3	5600.6	5470.4	5470.4	5383.6	5349.5	5293.7	5151.2	4590.2	3666.6
40°	6344.4	6266.9	6115.1	5922.9	5746.2	5566.5	5544.8	5504.5	5377.4	4800.9	3796.7
42.5°	6967.4	6818.6	6607.9	6375.4	6090.3	5885.7	5836.1	5721.4	5597.5	5014.8	3926.9
45°	7658.5	7348.6	7041.8	6924.0	6452.9	6266.9	6173.9	5966.3	5826.8	5237.9	4063.3
47.5°	7770.1	7528.4	7323.8	7305.2	6790.7	6635.8	6530.4	6232.8	6074.8	5476.6	4205.8
50°	7708.1	7562.5	7584.2	7509.8	7038.7	6936.4	6855.8	6518.0	6319.6	5705.9	4336.0
52.5°	7447.8	7528.4	7652.3	7516.0	7274.2	7190.5	7150.2	6824.8	6549.0	5916.7	4453.8
55°	7137.9	7193.6	7460.2	7627.6	7547.0	7472.6	7435.4	7181.2	6775.2	6093.4	4562.3
57.5°	6685.3	6660.5	6955.0	7609.0	7832.1	7788.7	7748.4	7531.5	6986.0	6220.4	4630.5
60°	6006.6	5953.9	6325.8	7237.0	7925.1	7993.3	7974.7	7763.9	7147.2	6217.3	4602.6
62.5°	4831.9	4962.1	5476.6	6629.6	7965.4	8138.9	8104.9	7782.5	7199.8	6037.6	4425.9
65°	3592.2	3778.1	4283.3	5792.7	7909.6	8213.3	8120.4	7478.8	6955.0	5681.1	4038.5
67.5°	2588.0	2752.2	3121.1	4766.8	7373.4	7872.4	7763.9	6982.9	6390.9	5175.9	3502.3
70°	1769.7	1887.5	2138.6	3471.3	6294.8	6806.2	6738.0	6242.1	5501.4	4574.7	2845.2
72.5°	1249.0	1298.6	1459.8	2290.4	4782.3	5340.2	5259.6	5135.7	4419.7	3802.9	2213.0
75°	936.0	967.0	1053.8	1481.5	3226.4	3700.6	3626.3	3697.5	3300.8	2879.3	1611.7
77.5°	353.3	384.3	598.2	945.3	1909.2	2271.8	2197.5	2240.8	1834.8	1453.6	802.7
80°	96.1	102.3	198.4	449.4	867.8	1131.3	1029.0	883.3	681.9	669.5	424.6
82.5°	40.3	46.5	89.9	241.8	309.9	309.9	260.3	322.3	260.3	313.0	204.6
85°	15.5	18.6	21.7	62.0	40.3	43.4	46.5	62.0	52.7	65.1	46.5
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	3.1	6.2	9.3	9.3	9.3
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: P841088

CATALOG NUMBER: ARCH4-130-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2488.8	2454.7	2405.1	2324.5	2240.8	2194.4	2135.5	2126.2	2064.2	2058.0	2033.2
5°	2504.3	2433.0	2305.9	2151.0	1999.1	1881.3	1794.5	1748.0	1658.2	1658.2	1633.4
7.5°	2516.7	2405.1	2200.6	1971.2	1763.5	1605.5	1487.7	1438.1	1357.5	1351.3	1332.7
10°	2519.8	2371.0	2085.9	1788.3	1534.2	1373.0	1258.3	1202.6	1131.3	1125.1	1112.7
12.5°	2544.6	2352.4	1983.6	1630.3	1369.9	1196.4	1084.8	1038.3	982.5	976.3	963.9
15°	2584.9	2352.4	1896.8	1497.0	1224.3	1063.1	967.0	923.6	883.3	877.1	870.9
17.5°	2625.2	2346.2	1810.0	1373.0	1103.4	957.7	874.0	839.9	808.9	805.8	799.6
20°	2662.4	2343.1	1723.3	1267.6	1010.4	870.9	805.8	774.8	750.0	750.0	746.9
22.5°	2699.6	2336.9	1639.6	1168.5	929.8	805.8	750.0	716.0	697.4	697.4	694.3
25°	2755.3	2336.9	1562.1	1084.8	864.7	756.2	700.5	675.7	660.2	657.1	657.1
27.5°	2820.4	2355.5	1493.9	1010.4	808.9	706.7	663.3	638.5	619.9	613.7	616.8
30°	2891.7	2371.0	1431.9	945.3	756.2	669.5	623.0	598.2	579.6	573.4	576.5
32.5°	2963.0	2389.6	1376.1	886.4	703.6	635.4	588.9	561.0	542.4	539.3	539.3
35°	3040.5	2408.2	1320.3	836.8	660.2	601.3	557.9	526.9	514.5	508.3	511.4
37.5°	3118.0	2439.2	1267.6	790.3	629.2	570.3	530.0	499.0	489.7	486.6	486.6
40°	3210.9	2485.7	1245.9	759.3	601.3	542.4	508.3	477.3	468.0	468.0	468.0
42.5°	3288.4	2522.9	1227.4	725.3	579.6	517.6	486.6	461.8	455.6	452.5	455.6
45°	3365.9	2557.0	1202.6	694.3	551.7	492.8	468.0	443.2	437.0	437.0	437.0
47.5°	3443.4	2575.6	1168.5	663.3	526.9	471.1	449.4	427.7	421.5	421.5	421.5
50°	3505.4	2591.1	1118.9	629.2	499.0	452.5	430.8	409.1	402.9	402.9	402.9
52.5°	3567.4	2594.2	1066.2	588.9	471.1	430.8	412.2	390.5	384.3	381.2	381.2
55°	3623.2	2591.1	1004.2	542.4	440.1	406.0	390.5	371.9	359.5	347.1	353.3
57.5°	3663.5	2588.0	932.9	495.9	409.1	381.2	375.0	350.2	325.4	294.4	300.6
60°	3648.0	2553.9	855.4	437.0	375.0	356.4	356.4	322.3	278.9	263.4	266.5
62.5°	3548.8	2457.8	774.8	375.0	340.9	331.6	328.5	291.3	257.2	241.8	244.9
65°	3251.2	2216.1	657.1	319.2	306.8	303.7	303.7	269.6	238.7	220.1	223.2
67.5°	2798.7	1859.6	536.2	269.6	272.7	278.9	278.9	247.9	217.0	198.4	201.5
70°	2243.9	1453.6	427.7	232.5	235.6	244.9	251.0	223.2	195.3	176.7	176.7
72.5°	1689.2	1103.4	344.0	195.3	210.8	210.8	220.1	198.4	170.5	151.9	155.0
75°	1224.3	790.3	272.7	164.3	182.9	179.8	179.8	167.4	145.7	133.3	133.3
77.5°	579.6	415.3	217.0	117.8	142.6	139.5	142.6	133.3	124.0	111.6	114.7
80°	285.1	204.6	139.5	83.7	99.2	102.3	111.6	105.4	102.3	93.0	93.0
82.5°	136.4	80.6	65.1	58.9	68.2	71.3	77.5	77.5	80.6	74.4	74.4
85°	37.2	21.7	27.9	37.2	43.4	46.5	52.7	55.8	55.8	52.7	55.8
87.5°	9.3	9.3	12.4	18.6	21.7	24.8	27.9	27.9	12.4	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)