

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: P841078

Luminaire Tested: **ARCH4-130-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19317 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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



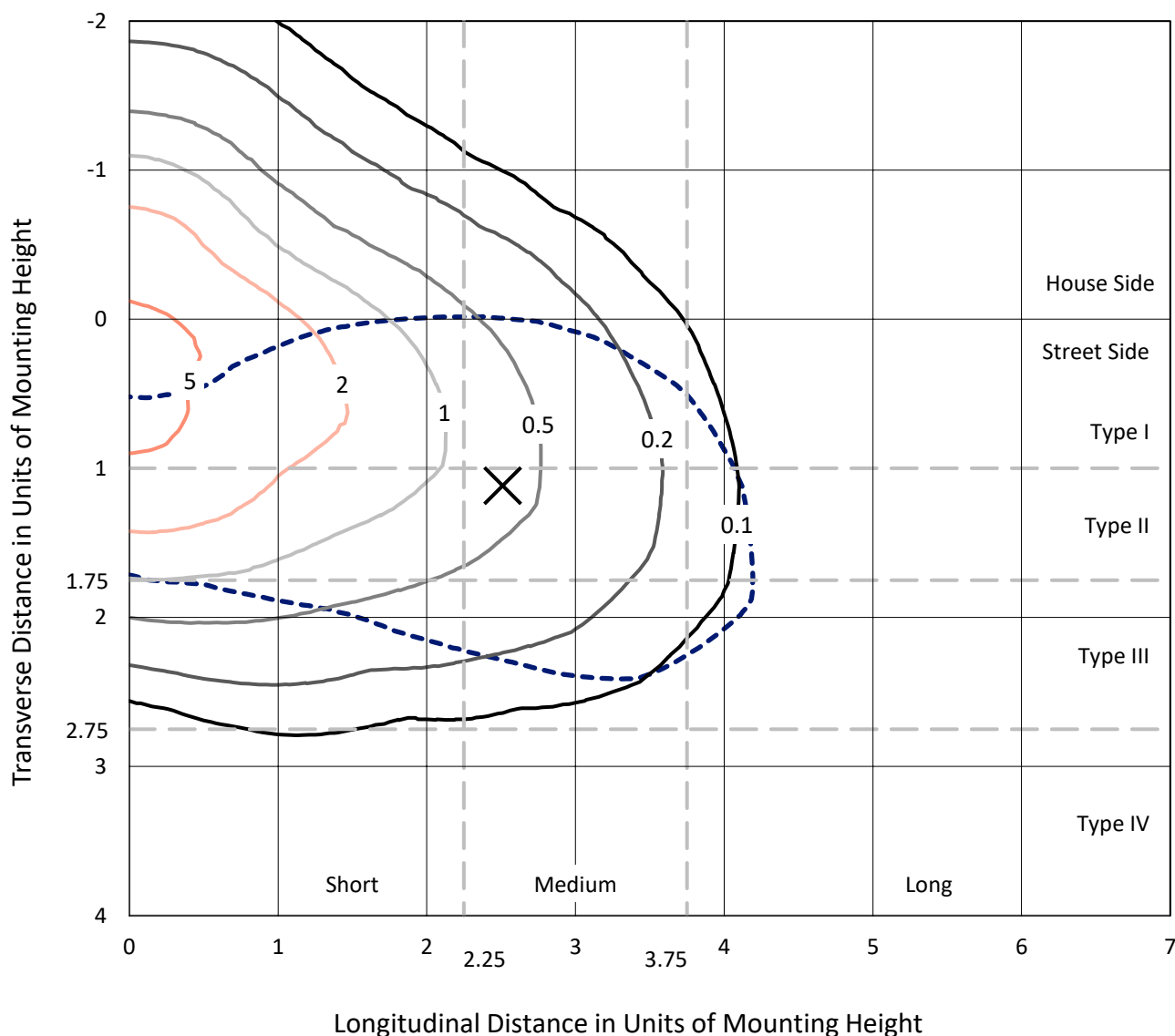
REPORT NUMBER: P841078

CATALOG NUMBER: ARCH4-130-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

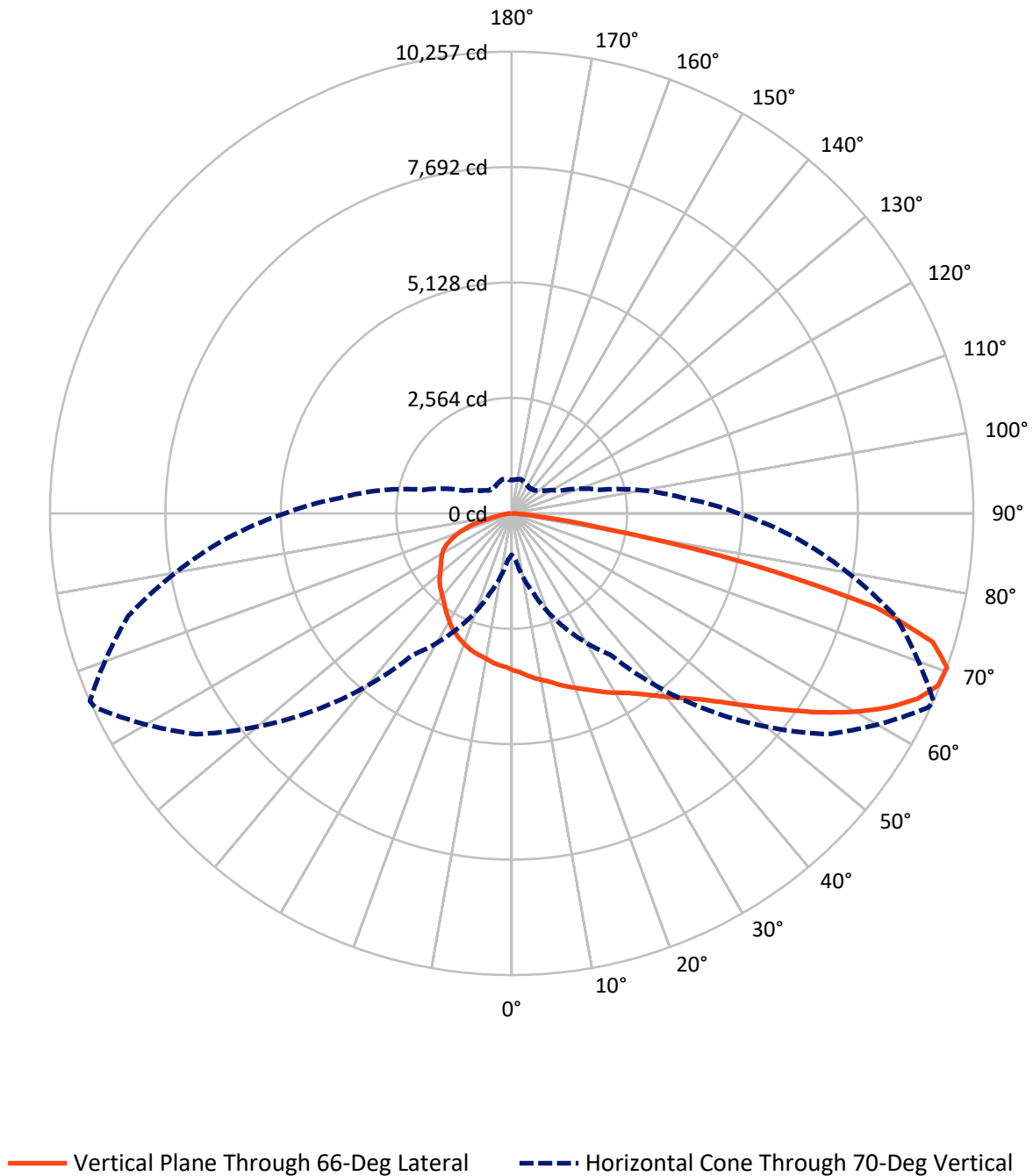


Based on 25 foot mounting height. Maximum calculated value = 6 fc

Type III - Medium - N/A

REPORT NUMBER: P841078
CATALOG NUMBER: ARCH4-130-722-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841078

CATALOG NUMBER: ARCH4-130-722-U-T3

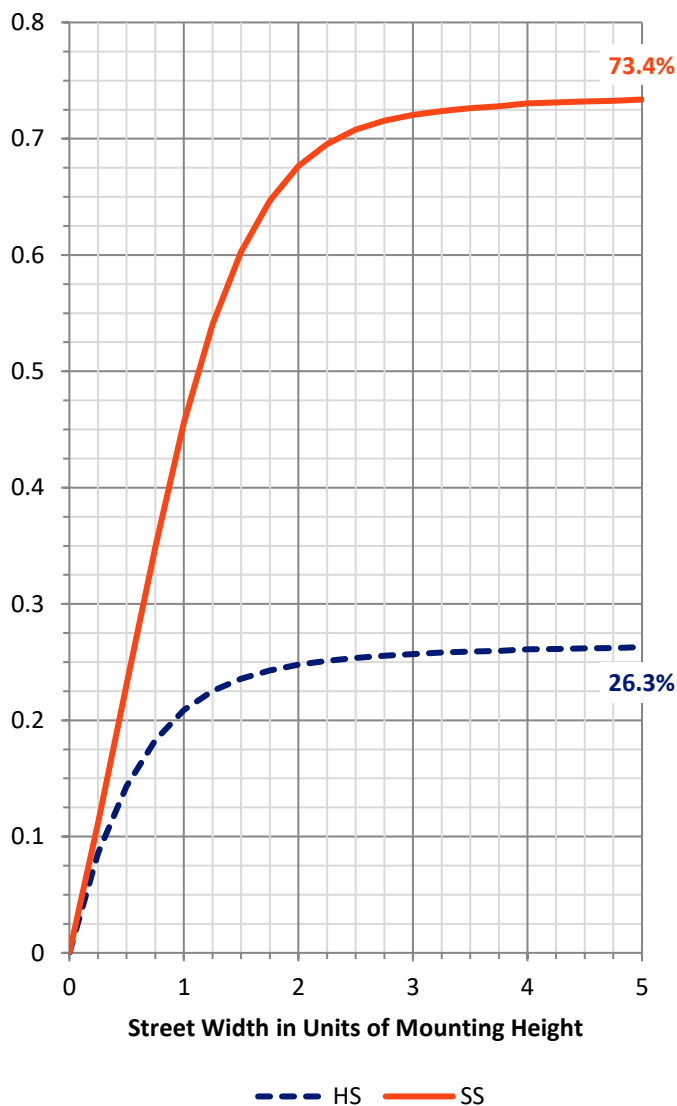
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5118.6	0.0	5118.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14198.4	0.0	14198.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	19317.0	0.0	19317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.7
10°-20°	1004.9	5.2
20°-30°	1684.5	8.7
30°-40°	2522.2	13.1
40°-50°	3372.2	17.5
50°-60°	3937.2	20.4
60°-70°	3914.9	20.3
70°-80°	2317.7	12.0
80°-90°	228.4	1.2
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°	19317.0	100.0
0°-180°	19317.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841078

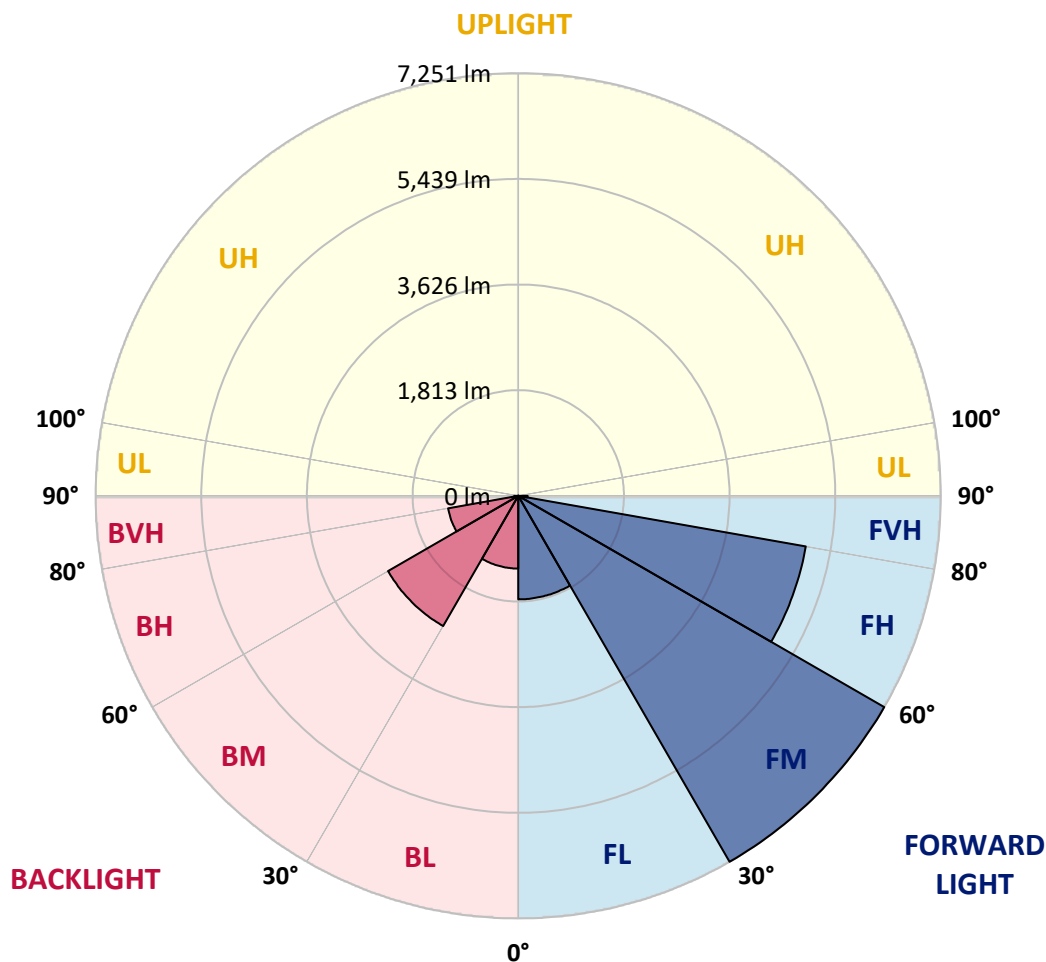
CATALOG NUMBER: ARCH4-130-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.7	9.2			
FM	(30°-60°)	7251.3	37.5			
FH	(60°-80°)	5009.9	25.9			G3/7500
FVH	(80°-90°)	160.5	0.8			G2/225
BL	(0°-30°)	1247.7	6.5	B3/2500		
BM	(30°-60°)	2580.3	13.4	B3/5000		
BH	(60°-80°)	1222.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	67.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P841078

CATALOG NUMBER: ARCH4-130-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3
2.5°	3614.5	3608.8	3605.9	3594.5	3568.9	3580.3	3554.6	3537.5	3534.7	3494.8	3472.0
5°	3762.6	3759.7	3754.0	3736.9	3697.1	3702.7	3660.0	3628.7	3620.1	3557.5	3509.1
7.5°	3887.9	3882.2	3879.3	3856.6	3813.8	3811.0	3759.7	3714.1	3699.9	3614.5	3540.4
10°	3984.7	3976.2	3981.9	3959.1	3913.5	3905.0	3839.5	3779.7	3765.4	3657.2	3554.6
12.5°	4067.3	4061.6	4070.2	4050.2	4013.2	4004.7	3939.2	3862.2	3845.2	3719.8	3586.0
15°	4158.5	4138.5	4155.6	4147.1	4121.4	4118.6	4058.8	3973.3	3950.5	3799.6	3634.4
17.5°	4206.9	4195.5	4215.4	4218.3	4206.9	4226.8	4169.9	4067.3	4047.4	3873.6	3677.1
20°	4241.1	4224.0	4246.8	4263.9	4272.4	4312.3	4266.7	4167.0	4144.2	3944.8	3717.0
22.5°	4357.8	4320.8	4323.7	4335.1	4340.8	4397.7	4369.2	4272.4	4249.6	4033.1	3765.4
25°	4651.2	4577.2	4528.7	4494.6	4454.7	4503.1	4486.0	4392.0	4372.1	4138.5	3825.2
27.5°	5106.9	5012.9	4916.1	4816.4	4659.8	4639.8	4611.3	4525.9	4503.1	4243.9	3885.0
30°	5625.3	5531.3	5417.4	5257.9	4964.5	4810.7	4745.2	4651.2	4625.6	4337.9	3942.0
32.5°	6140.9	6058.3	5944.3	5750.7	5332.0	5018.6	4879.1	4782.2	4756.6	4440.4	4010.4
35°	6542.5	6491.2	6417.1	6175.0	5696.5	5263.6	5072.8	4956.0	4927.5	4602.8	4135.7
37.5°	6867.2	6830.1	6767.5	6514.0	5961.4	5508.5	5294.9	5161.1	5129.7	4779.4	4269.6
40°	7345.7	7248.8	7197.6	6830.1	6192.1	5730.7	5545.6	5406.0	5371.8	4967.4	4377.8
42.5°	7753.0	7681.8	7619.1	7112.1	6411.4	5921.5	5782.0	5653.8	5608.2	5152.5	4494.6
45°	7821.3	7849.8	7818.5	7251.7	6758.9	6109.5	6021.2	5938.6	5895.9	5403.2	4671.2
47.5°	7824.2	7824.2	7639.1	7331.4	7189.0	6320.3	6277.6	6306.1	6260.5	5722.2	4881.9
50°	7619.1	7656.1	7559.3	7351.4	7303.0	6531.1	6590.9	6744.7	6699.1	6061.1	5109.8
52.5°	7194.7	7317.2	7314.3	7320.0	7137.8	6710.5	6921.3	7271.6	7194.7	6442.8	5351.9
55°	6445.6	6690.6	6909.9	7097.9	6995.3	6818.8	7325.7	7832.7	7753.0	6870.0	5596.8
57.5°	5804.8	5961.4	6234.9	6767.5	6827.3	6912.7	7704.6	8419.5	8348.3	7342.8	5853.2
60°	5072.8	5289.2	5562.7	6320.3	6622.2	7035.2	8120.4	8992.0	8923.6	7821.3	6101.0
62.5°	3947.7	4226.8	4773.7	5633.9	6323.2	7112.1	8448.0	9496.1	9464.8	8274.2	6323.2
65°	2751.4	2999.2	3765.4	4790.8	5847.5	7077.9	8710.0	9946.1	9917.7	8644.5	6479.8
67.5°	1606.4	1894.1	2760.0	3856.6	5007.3	6841.5	8795.4	10211.0	10211.0	8869.5	6522.5
70°	917.1	1051.0	1820.0	2811.2	3839.5	6189.3	8556.2	10208.2	10256.6	8818.2	6345.9
72.5°	640.9	700.7	1224.8	1891.2	2603.3	5007.3	7929.6	9715.4	9780.9	8334.0	5742.1
75°	498.4	541.2	863.0	1290.3	1640.6	3400.8	6559.6	8191.6	8365.4	7103.6	4642.7
77.5°	378.8	410.2	504.1	806.1	1051.0	1953.9	4329.4	5371.8	5383.2	4349.3	2489.4
80°	276.3	307.6	336.1	492.8	558.3	914.3	1634.9	2244.4	2181.8	2104.9	1347.2
82.5°	165.2	196.5	205.1	267.7	273.4	390.2	572.5	723.5	695.0	925.7	632.3
85°	71.2	99.7	105.4	122.5	116.8	159.5	227.9	190.8	170.9	196.5	136.7
87.5°	17.1	28.5	28.5	31.3	25.6	39.9	42.7	31.3	28.5	34.2	34.2
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: P841078

CATALOG NUMBER: ARCH4-130-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3
2.5°	3466.3	3457.8	3460.6	3412.2	3398.0	3383.7	3375.2	3369.5	3363.8	3372.3	3380.9
5°	3492.0	3472.0	3449.3	3378.0	3349.6	3318.2	3295.4	3275.5	3267.0	3267.0	3275.5
7.5°	3511.9	3477.7	3429.3	3335.3	3284.1	3241.3	3204.3	3178.7	3164.4	3164.4	3173.0
10°	3514.8	3466.3	3389.4	3275.5	3207.1	3144.5	3101.8	3073.3	3053.3	3053.3	3059.0
12.5°	3531.9	3466.3	3366.7	3229.9	3144.5	3067.6	3016.3	2973.6	2965.0	2965.0	2970.7
15°	3560.3	3480.6	3352.4	3190.1	3087.5	2999.2	2942.3	2896.7	2879.6	2891.0	2893.8
17.5°	3586.0	3489.1	3326.8	3138.8	3016.3	2919.5	2856.8	2816.9	2794.1	2819.8	2819.8
20°	3603.1	3489.1	3289.7	3073.3	2939.4	2831.2	2771.4	2722.9	2705.9	2737.2	2740.0
22.5°	3628.7	3486.3	3249.9	3007.8	2856.8	2742.9	2683.1	2646.0	2637.5	2671.7	2683.1
25°	3657.2	3492.0	3207.1	2933.7	2765.7	2654.6	2609.0	2591.9	2597.6	2640.3	2654.6
27.5°	3688.5	3503.4	3164.4	2851.1	2666.0	2566.3	2540.7	2549.2	2572.0	2626.1	2643.2
30°	3717.0	3506.2	3104.6	2754.3	2552.0	2458.1	2469.4	2506.5	2540.7	2594.8	2614.7
32.5°	3754.0	3509.1	3041.9	2648.9	2429.6	2361.2	2412.5	2472.3	2506.5	2557.7	2580.5
35°	3845.2	3557.5	2993.5	2546.4	2315.6	2278.6	2364.1	2441.0	2460.9	2506.5	2526.4
37.5°	3950.5	3637.2	2967.9	2441.0	2204.6	2196.0	2304.2	2381.2	2386.8	2415.3	2435.3
40°	4016.1	3671.4	2939.4	2352.7	2104.9	2110.6	2221.6	2281.5	2270.1	2290.0	2304.2
42.5°	4081.6	3682.8	2879.6	2278.6	2010.9	2016.6	2102.0	2144.7	2150.4	2193.2	2213.1
45°	4192.6	3714.1	2814.1	2210.3	1925.4	1905.5	1956.8	2013.7	2087.8	2170.4	2193.2
47.5°	4340.8	3779.7	2745.7	2127.7	1842.8	1777.3	1797.3	1896.9	1973.8	2050.8	2065.0
50°	4491.7	3845.2	2683.1	2028.0	1760.2	1640.6	1649.1	1740.3	1803.0	1862.8	1871.3
52.5°	4639.8	3902.1	2629.0	1934.0	1666.2	1478.3	1512.4	1606.4	1649.1	1677.6	1686.2
55°	4787.9	3950.5	2580.5	1854.2	1558.0	1350.1	1381.4	1469.7	1512.4	1526.7	1532.4
57.5°	4941.7	4007.5	2543.5	1785.9	1435.5	1236.1	1256.1	1318.7	1358.6	1375.7	1370.0
60°	5069.9	4055.9	2523.6	1714.7	1313.1	1130.8	1125.1	1182.0	1239.0	1256.1	1250.4
62.5°	5169.6	4087.3	2492.2	1623.5	1204.8	1025.4	996.9	1070.9	1130.8	1142.2	1150.7
65°	5223.7	4090.1	2415.3	1506.7	1093.7	911.4	891.5	965.6	1002.6	1014.0	1014.0
67.5°	5215.2	4044.5	2264.4	1350.1	991.2	808.9	791.8	837.4	891.5	900.1	891.5
70°	5038.6	3856.6	2022.3	1184.9	868.7	717.8	686.4	732.0	783.3	751.9	737.7
72.5°	4537.3	3369.5	1666.2	1002.6	732.0	603.8	589.6	635.2	638.0	643.7	629.5
75°	3580.3	2509.3	1247.5	780.4	592.4	507.0	504.1	495.6	507.0	529.8	512.7
77.5°	1879.9	1253.2	675.0	478.5	430.1	407.3	387.4	384.5	418.7	432.9	415.8
80°	1019.7	703.5	387.4	287.7	262.0	264.9	290.5	284.8	321.9	330.4	316.2
82.5°	444.3	333.2	190.8	173.7	173.7	170.9	179.4	199.4	239.3	239.3	190.8
85°	96.8	82.6	74.1	85.4	96.8	96.8	96.8	96.8	68.4	37.0	25.6
87.5°	31.3	31.3	31.3	34.2	37.0	37.0	31.3	22.8	14.2	2.8	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)