

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: P841804

Luminaire Tested: **ARCH4-230-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841804
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: ARCH4-230-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA 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: 23389 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 231.2
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



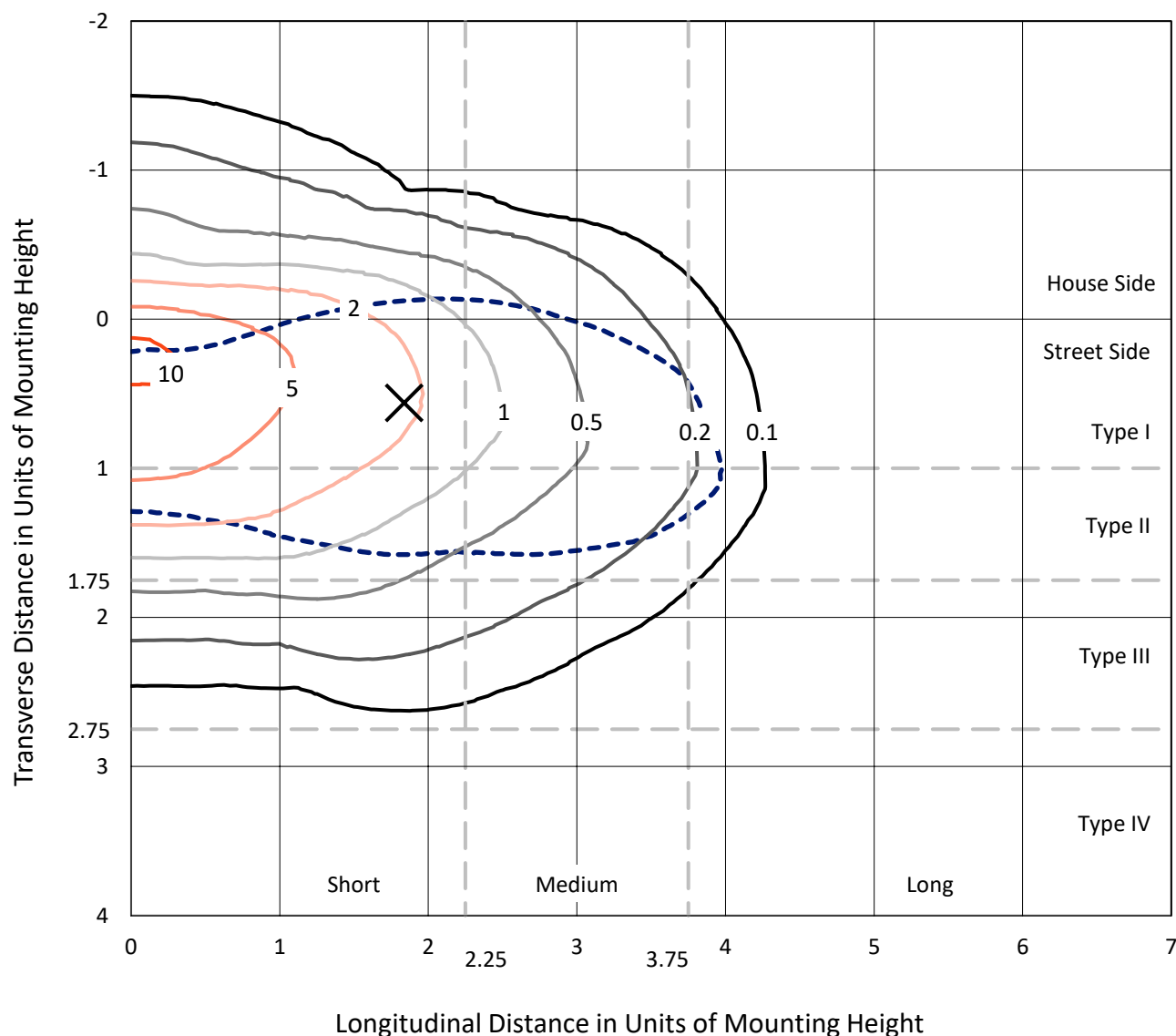
REPORT NUMBER: P841804

CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

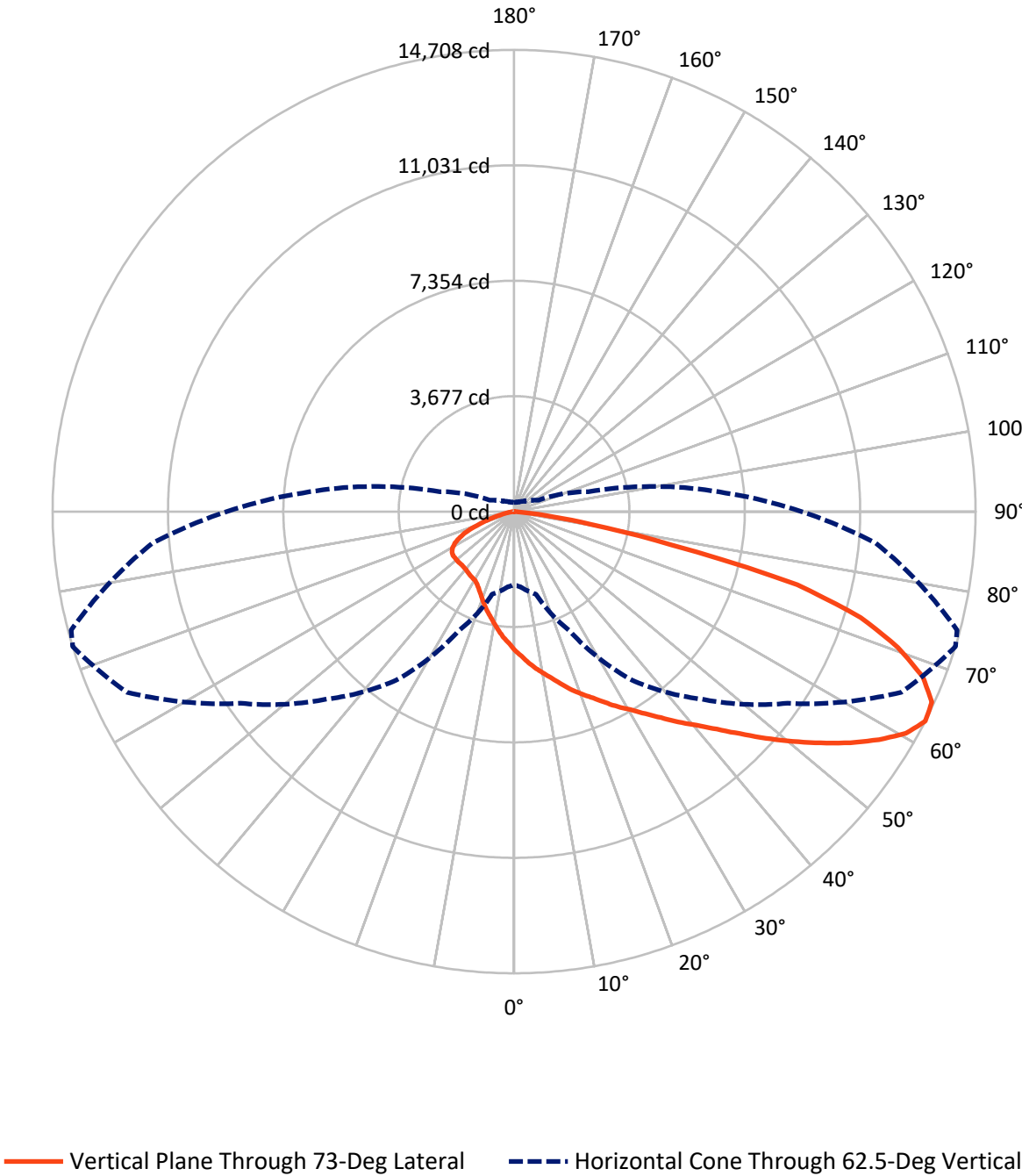


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc

Type II - Short - N/A

REPORT NUMBER: P841804
CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841804

CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

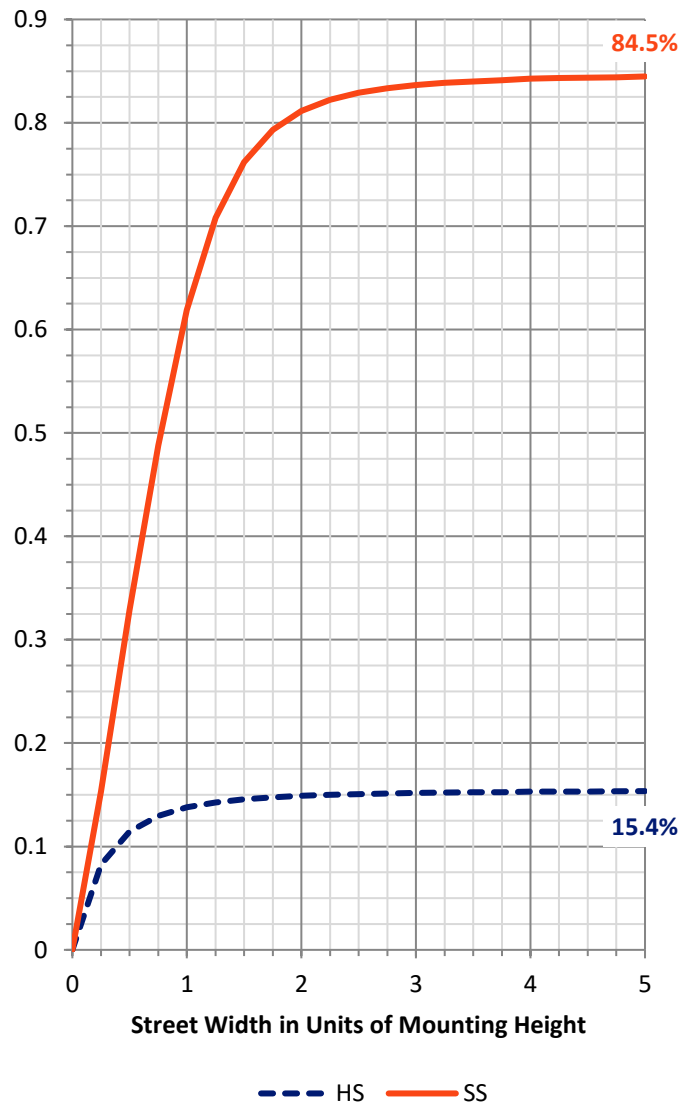
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3625.6	0.0	3625.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19763.4	0.0	19763.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	23389.0	0.0	23389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	1.8
10°-20°	1291.0	5.5
20°-30°	2149.0	9.2
30°-40°	3242.5	13.9
40°-50°	4532.1	19.4
50°-60°	5006.0	21.4
60°-70°	4360.9	18.6
70°-80°	2202.9	9.4
80°-90°	176.8	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°	23389.0	100.0
0°-180°	23389.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841804

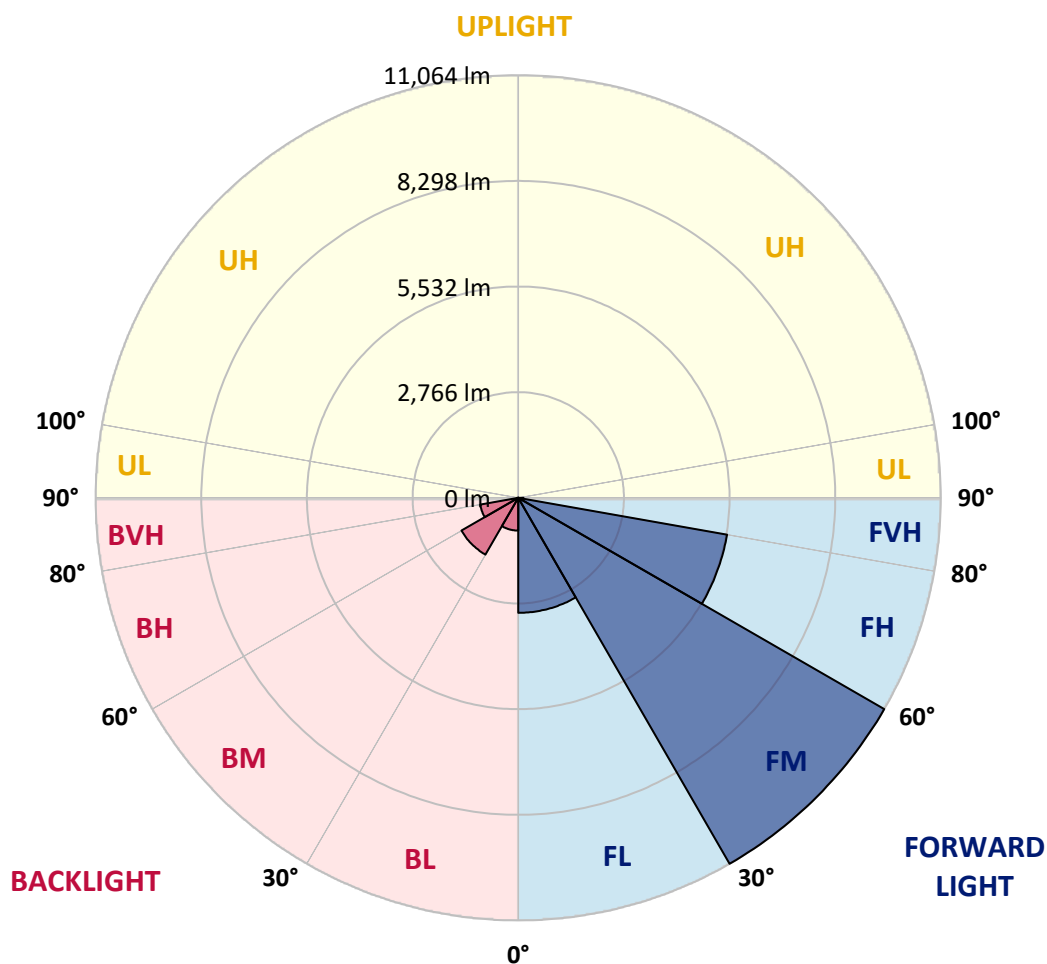
CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3010.9	12.9			
FM	(30°-60°)	11063.9	47.3			
FH	(60°-80°)	5551.8	23.7			G3/7500
FVH	(80°-90°)	136.8	0.6			G2/225
BL	(0°-30°)	857.0	3.7	B2/1000		
BM	(30°-60°)	1716.7	7.3	B2/2500		
BH	(60°-80°)	1012.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	40.0	0.2			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 II Short



REPORT NUMBER: P841804

CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8
2.5°	5040.3	5096.4	5065.8	5086.2	4984.3	4918.0	4841.6	4693.8	4612.2	4602.0	4505.2
5°	5779.3	5840.5	5789.5	5774.2	5595.8	5442.9	5269.7	5009.7	4836.5	4805.9	4591.8
7.5°	6518.3	6574.3	6513.2	6467.3	6227.8	5957.7	5702.9	5320.6	5050.5	4999.6	4663.2
10°	7038.1	7089.1	7043.2	6997.3	6747.6	6472.4	6110.6	5611.1	5244.2	5162.6	4709.1
12.5°	7430.5	7461.1	7440.7	7399.9	7165.5	6869.9	6523.4	5937.3	5463.3	5361.4	4780.4
15°	7751.6	7802.6	7777.1	7746.5	7522.3	7226.7	6895.4	6278.7	5718.1	5590.7	4887.4
17.5°	7965.6	8001.3	8006.4	8006.4	7807.7	7517.2	7196.1	6589.6	5973.0	5809.9	4989.4
20°	8062.5	8103.2	8128.7	8169.5	8006.4	7756.7	7430.5	6854.6	6212.5	6029.0	5086.2
22.5°	8108.3	8144.0	8210.3	8302.0	8169.5	7960.6	7659.9	7099.3	6452.0	6258.4	5198.3
25°	8144.0	8189.9	8286.7	8460.0	8368.3	8189.9	7930.0	7379.6	6737.4	6538.7	5361.4
27.5°	8240.9	8296.9	8388.6	8597.6	8485.5	8398.8	8215.4	7680.2	7038.1	6834.2	5560.2
30°	8577.2	8623.1	8618.0	8750.5	8612.9	8587.4	8460.0	7970.7	7328.6	7124.7	5794.6
32.5°	9188.8	9234.6	9122.5	9071.6	8770.9	8776.0	8725.0	8281.6	7675.2	7466.2	6064.7
35°	9846.2	9897.2	9749.4	9662.7	9158.2	9010.4	9035.9	8668.9	8062.5	7853.5	6401.1
37.5°	10432.3	10493.5	10366.0	10238.6	9729.0	9387.5	9382.4	9102.1	8505.9	8291.8	6773.1
40°	10753.4	10824.7	10901.2	10829.8	10294.7	9917.6	9754.5	9545.5	8944.2	8725.0	7175.7
42.5°	10906.3	11105.0	11242.6	11196.8	10758.5	10376.2	10182.6	10009.3	9479.3	9265.2	7654.8
45°	10478.2	10483.3	10773.8	11023.5	10941.9	10687.1	10651.4	10529.1	10090.8	9887.0	8195.0
47.5°	9943.0	9902.3	10106.1	10549.5	10778.8	10845.1	11054.1	11105.0	10789.0	10585.2	8745.4
50°	8658.8	8684.2	9346.8	9983.8	10432.3	10860.4	11339.5	11696.2	11507.6	11314.0	9326.4
52.5°	7043.2	7104.4	7863.7	9265.2	9973.6	10707.5	11507.6	12287.4	12241.5	12058.0	9907.4
55°	5646.8	5743.6	6548.9	8067.6	9387.5	10366.0	11579.0	12827.6	13000.9	12832.7	10478.2
57.5°	4316.6	4418.6	5096.4	6655.9	8638.4	9810.5	11528.0	13301.6	13709.3	13602.2	11003.1
60°	3251.5	3353.4	3786.6	5397.1	7700.6	9188.8	11273.2	13612.4	14346.3	14234.2	11385.3
62.5°	2329.0	2410.6	2731.7	4199.4	6559.0	8449.8	10646.3	13617.5	14708.2	14616.4	11568.8
65°	1676.7	1676.7	1936.6	2996.7	5488.8	7563.0	9698.4	12990.7	14631.7	14606.2	11441.4
67.5°	1207.8	1218.0	1427.0	2094.6	4377.8	6487.7	8470.2	11874.6	14040.5	14167.9	10982.7
70°	856.2	881.7	978.5	1462.7	3307.6	5121.9	7155.3	10411.9	12975.4	13199.6	10095.9
72.5°	662.5	677.8	744.1	1019.3	2415.7	3807.0	5702.9	8781.1	11553.5	11808.3	8888.1
75°	509.6	524.9	575.9	749.2	1732.8	2670.5	4051.6	6813.9	9316.2	9769.8	7140.0
77.5°	372.0	392.4	428.1	545.3	1009.1	1697.1	2456.5	3832.5	5142.3	5356.3	3740.7
80°	173.3	198.8	249.7	351.7	545.3	800.1	871.5	1478.0	2471.7	2583.9	2028.4
82.5°	96.8	122.3	142.7	214.0	275.2	285.4	295.6	372.0	932.6	1029.5	851.1
85°	45.9	61.2	66.3	91.7	91.7	81.5	96.8	71.3	152.9	183.5	178.4
87.5°	0.0	5.1	10.2	25.5	20.4	15.3	15.3	15.3	15.3	20.4	15.3
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: P841804

CATALOG NUMBER: ARCH4-230-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8
2.5°	4459.3	4393.1	4240.2	4107.7	4021.0	3944.6	3842.7	3796.8	3715.3	3730.6	3684.7
5°	4484.8	4362.5	4092.4	3842.7	3659.2	3496.1	3317.7	3215.8	3103.7	3093.5	3057.8
7.5°	4500.1	4311.5	3924.2	3572.6	3292.3	3042.5	2803.0	2670.5	2532.9	2502.3	2471.7
10°	4484.8	4235.1	3750.9	3292.3	2920.2	2609.3	2339.2	2171.1	2028.4	1992.7	1962.1
12.5°	4500.1	4194.3	3587.9	3032.3	2589.0	2237.3	1931.5	1758.3	1625.7	1590.1	1569.7
15°	4535.8	4168.8	3450.3	2797.9	2293.4	1901.0	1600.3	1452.5	1345.4	1309.8	1299.6
17.5°	4566.4	4143.4	3302.5	2568.6	1997.8	1605.4	1345.4	1223.1	1131.4	1095.7	1085.5
20°	4607.1	4107.7	3154.7	2349.4	1737.9	1370.9	1141.6	1034.6	963.2	937.7	932.6
22.5°	4642.8	4082.2	3017.1	2130.3	1498.3	1182.4	988.7	902.1	851.1	825.6	825.6
25°	4734.5	4092.4	2899.8	1926.4	1320.0	1034.6	871.5	805.2	764.5	749.2	749.2
27.5°	4841.6	4133.2	2808.1	1753.2	1167.1	922.4	789.9	733.9	713.5	693.1	698.2
30°	4994.5	4214.7	2747.0	1610.5	1055.0	835.8	723.7	682.9	662.5	657.4	657.4
32.5°	5188.1	4347.2	2741.9	1518.7	973.4	769.6	677.8	642.1	632.0	626.9	626.9
35°	5417.5	4464.4	2711.3	1478.0	922.4	723.7	642.1	616.7	611.6	611.6	611.6
37.5°	5692.7	4658.1	2690.9	1421.9	897.0	698.2	616.7	596.3	596.3	596.3	596.3
40°	5978.1	4816.1	2660.3	1370.9	886.8	682.9	601.4	575.9	575.9	575.9	575.9
42.5°	6319.5	5045.4	2650.1	1345.4	871.5	672.7	581.0	550.4	555.5	555.5	560.6
45°	6732.3	5305.3	2645.0	1320.0	866.4	662.5	560.6	524.9	530.0	524.9	524.9
47.5°	7150.2	5606.0	2660.3	1304.7	861.3	652.3	545.3	499.4	499.4	494.3	494.3
50°	7588.5	5881.2	2670.5	1289.4	851.1	632.0	519.8	479.1	468.9	458.7	463.8
52.5°	8001.3	6136.0	2675.6	1263.9	820.5	601.4	499.4	453.6	438.3	423.0	428.1
55°	8414.1	6380.7	2685.8	1233.3	779.7	570.8	474.0	428.1	407.7	387.3	387.3
57.5°	8786.2	6594.7	2660.3	1156.9	733.9	540.2	448.5	397.5	366.9	346.6	346.6
60°	9041.0	6747.6	2583.9	1044.8	672.7	504.5	423.0	366.9	331.3	316.0	316.0
62.5°	9163.3	6773.1	2446.3	861.3	596.3	468.9	392.4	336.4	305.8	295.6	295.6
65°	9046.1	6661.0	2232.2	647.2	514.7	428.1	361.8	310.9	280.3	254.8	254.8
67.5°	8638.4	6345.0	1936.6	489.3	438.3	387.3	331.3	285.4	249.7	229.3	229.3
70°	7817.9	5687.6	1498.3	392.4	372.0	336.4	300.7	254.8	224.2	198.8	198.8
72.5°	6742.5	4821.2	1055.0	316.0	316.0	285.4	254.8	224.2	193.7	173.3	173.3
75°	5172.8	3567.5	708.4	254.8	259.9	239.5	209.0	183.5	163.1	147.8	147.8
77.5°	2823.4	1763.3	433.2	188.6	193.7	183.5	163.1	147.8	137.6	122.3	122.3
80°	1370.9	774.7	249.7	132.5	137.6	132.5	122.3	107.0	107.0	96.8	96.8
82.5°	575.9	290.5	132.5	91.7	91.7	81.5	76.4	76.4	76.4	71.3	71.3
85°	142.7	56.1	56.1	51.0	51.0	51.0	45.9	45.9	45.9	35.7	40.8
87.5°	20.4	20.4	20.4	20.4	20.4	20.4	15.3	5.1	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)