

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: P236957

Luminaire Tested: **ARCH-L-AF72-240-D-U-T2R-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-240-D-U-T2R-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21306.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

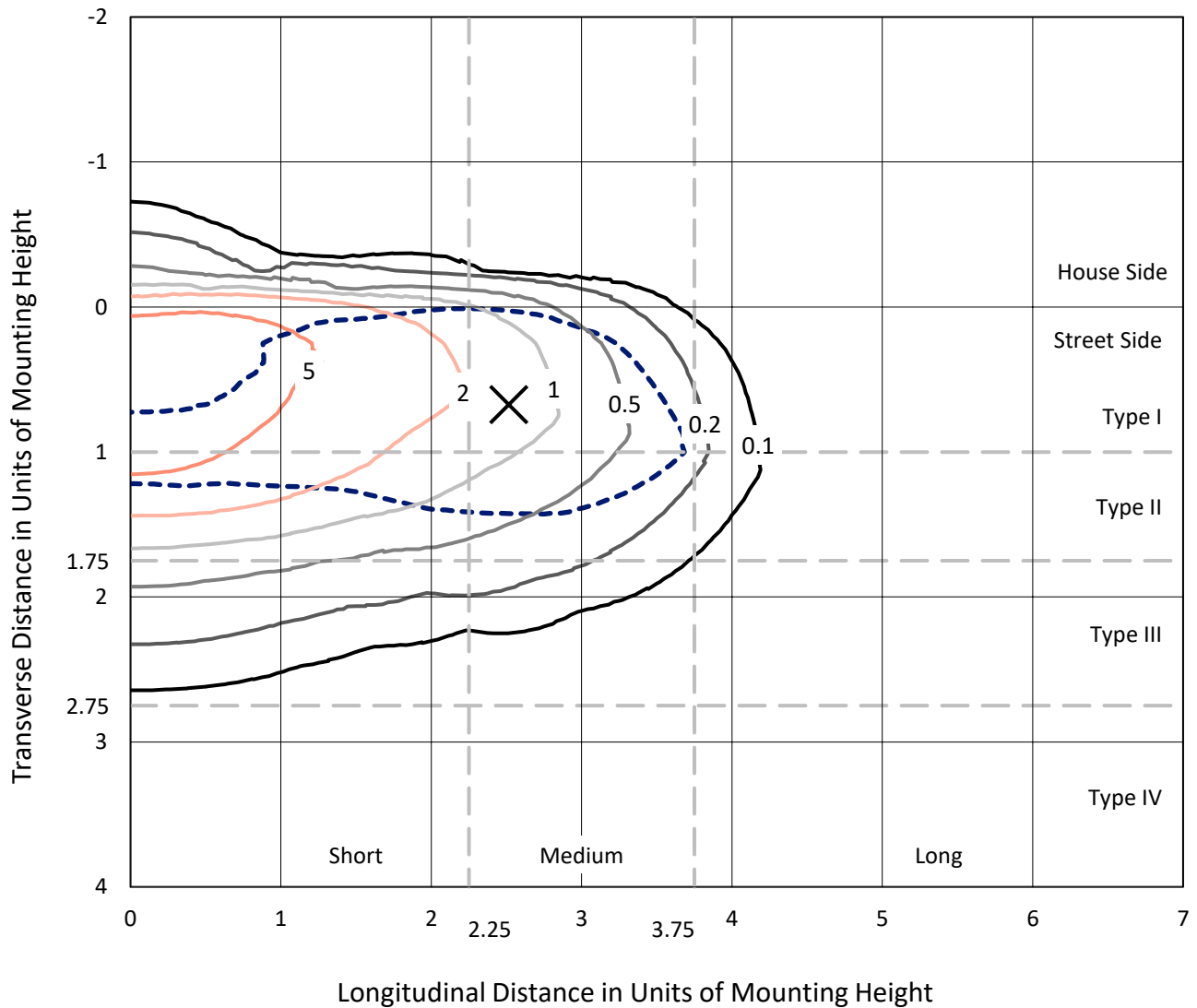
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236957
 CATALOG NUMBER: ARCH-L-AF72-240-D-U-T2R-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

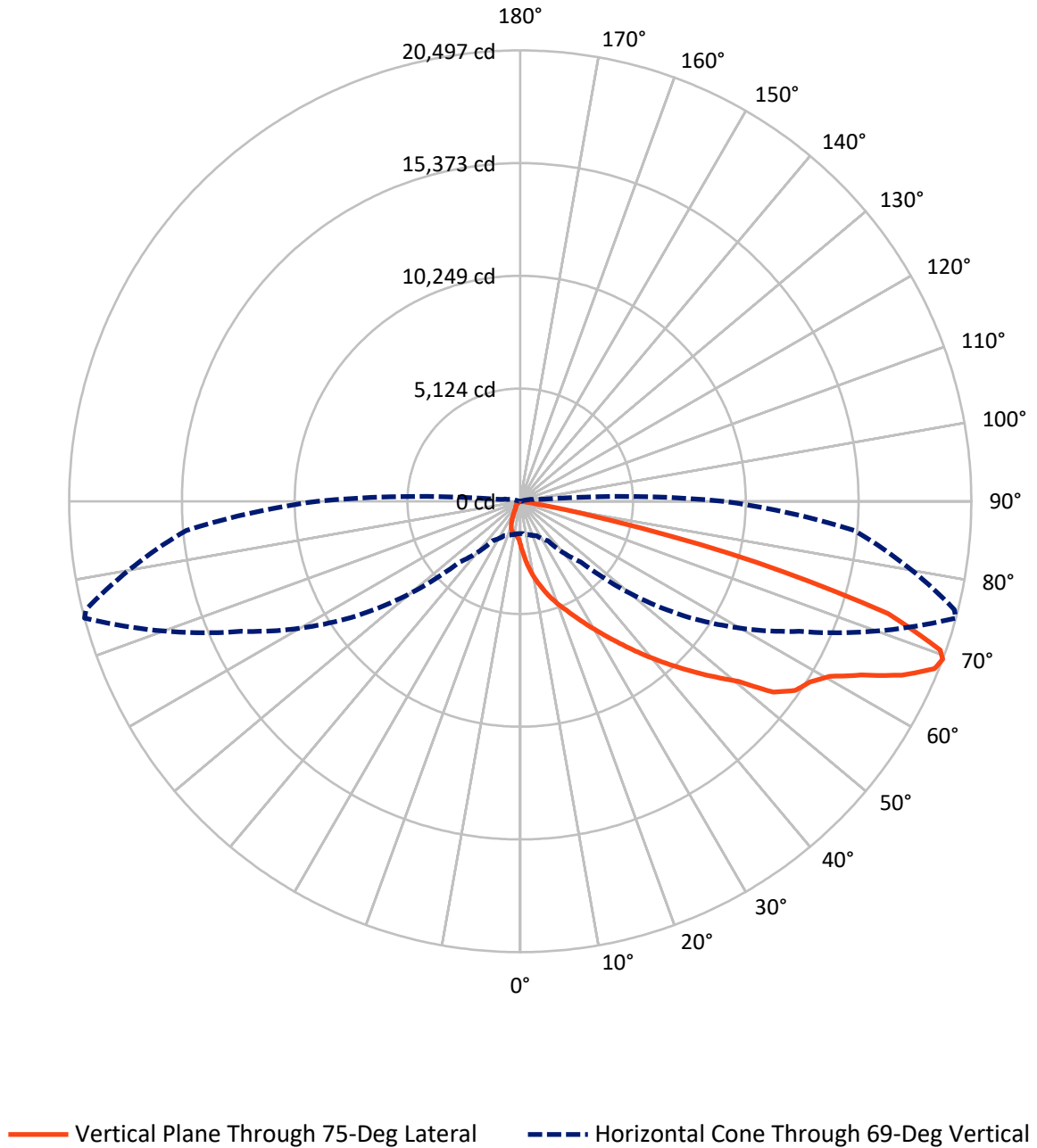
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P236957
CATALOG NUMBER: ARCH-L-AF72-240-D-U-T2R-7030-HSS

Luminous Intensity Polar Plot



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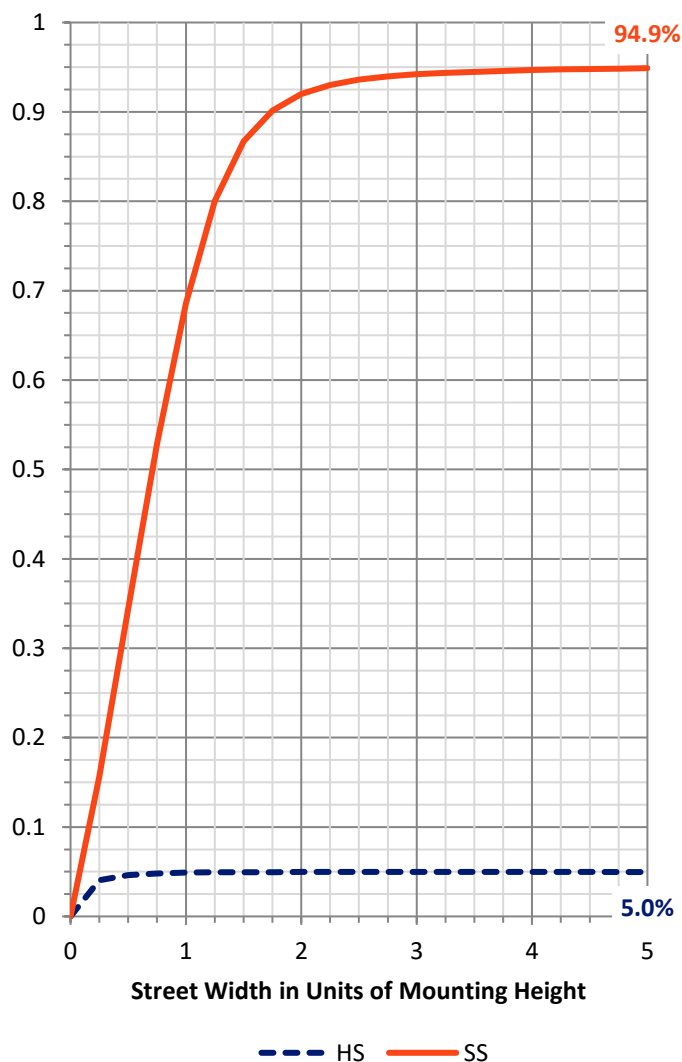
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.0	0.0	1063.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20243.6	0.0	20243.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	21306.6	0.0	21306.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.1
10°-20°	826.5	3.9
20°-30°	1577.8	7.4
30°-40°	2830.3	13.3
40°-50°	4336.2	20.4
50°-60°	5039.8	23.7
60°-70°	4462.8	20.9
70°-80°	1925.0	9.0
80°-90°	77.1	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°	21306.6	100.0
0°-180°	21306.6	100.0

Coefficient of Utilization



REPORT NUMBER: P236957

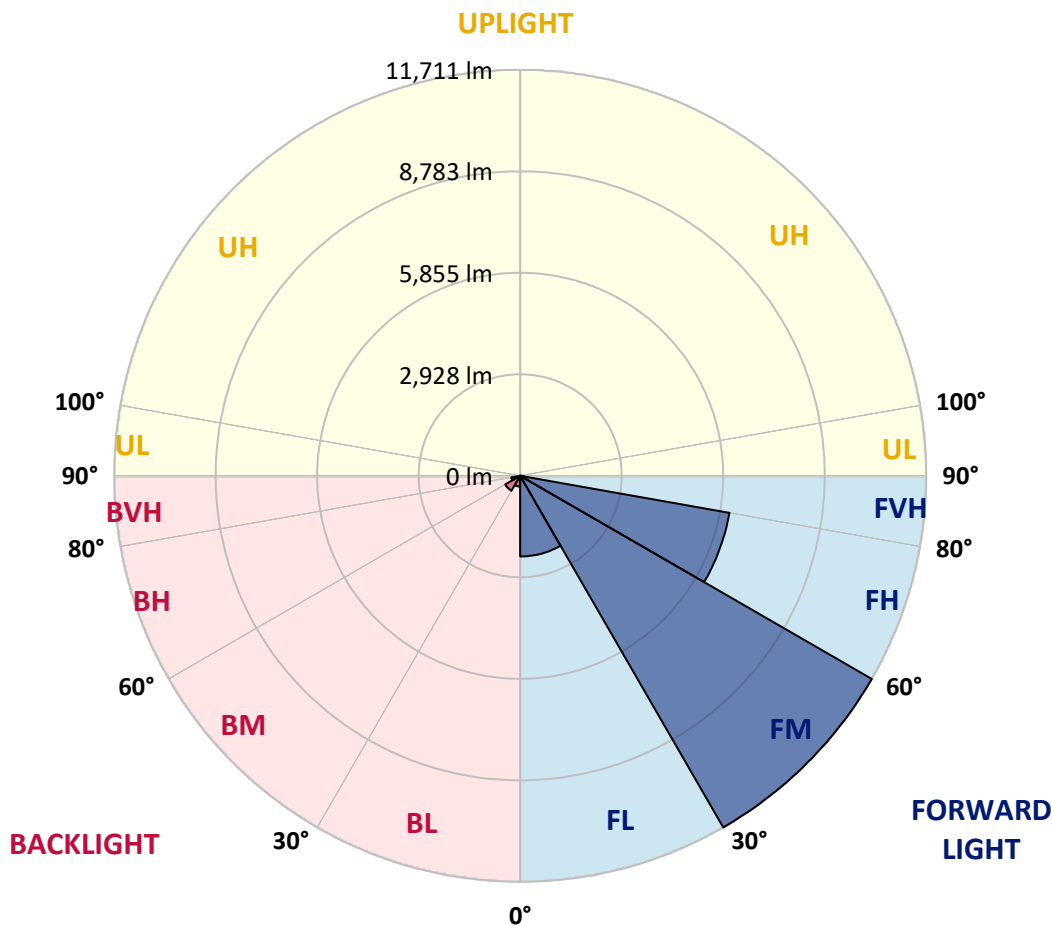
CATALOG NUMBER: ARCH-L-AF72-240-D-U-T2R-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.7	10.9			
FM (30°-60°)	11710.7	55.0			
FH (60°-80°)	6130.2	28.8			G3/7500
FVH (80°-90°)	76.0	0.4			G1/100
BL (0°-30°)	308.7	1.4	B1/500		
BM (30°-60°)	495.6	2.3	B1/1000		
BH (60°-80°)	257.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





REPORT NUMBER: P236957

CATALOG NUMBER: ARCH-L-AF72-240-D-U-T2R-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6
2.5°	3266.0	3233.7	3201.6	3164.8	3081.9	2939.4	2760.0	2566.7	2327.5	2286.1	2093.0
5°	3965.1	3951.4	3919.1	3868.6	3776.5	3620.2	3417.7	3132.6	2732.3	2663.4	2254.0
7.5°	4457.3	4448.2	4420.5	4360.7	4277.9	4121.6	3910.0	3601.7	3137.2	3058.9	2456.3
10°	4898.9	4894.4	4871.4	4816.1	4733.3	4563.1	4337.7	4015.8	3523.6	3436.2	2690.9
12.5°	5299.2	5303.8	5294.4	5267.0	5207.2	5046.1	4788.5	4438.9	3896.1	3799.6	2971.6
15°	5533.8	5547.5	5584.3	5639.5	5657.9	5529.2	5262.4	4875.9	4277.9	4195.1	3293.5
17.5°	5455.6	5469.3	5584.3	5772.9	5952.3	5970.7	5731.5	5289.9	4655.1	4572.4	3610.9
20°	5267.0	5285.3	5404.9	5662.6	6012.1	6255.9	6159.3	5740.7	5013.9	4912.8	3914.5
22.5°	5478.6	5478.6	5515.3	5671.7	5989.1	6370.9	6499.8	6191.5	5381.9	5257.8	4218.2
25°	6205.3	6191.5	6113.3	6048.9	6150.1	6490.5	6757.3	6651.4	5814.3	5671.7	4540.2
27.5°	7125.4	7189.7	7042.6	6808.0	6578.0	6725.1	6987.3	7106.9	6292.7	6145.5	4871.4
30°	8155.6	8183.3	8008.4	7695.6	7290.9	7148.3	7258.7	7497.9	6812.6	6651.4	5216.4
32.5°	9084.9	9061.9	8914.7	8588.1	8086.8	7778.5	7608.3	7810.7	7378.3	7194.2	5570.6
35°	9908.2	9926.6	9747.2	9370.1	8877.9	8551.2	8146.5	8165.0	8013.1	7801.5	5980.0
37.5°	10648.9	10616.7	10446.5	10069.3	9623.1	9268.9	8841.0	8532.9	8707.8	8486.9	6440.0
40°	11251.4	11219.3	11039.9	10671.9	10253.3	9963.5	9627.7	9025.2	9439.1	9186.1	6932.1
42.5°	11729.8	11693.0	11541.3	11187.0	10782.2	10524.6	10363.7	9632.3	10221.1	9968.0	7484.2
45°	11964.4	11932.2	11840.2	11573.5	11219.3	10993.8	11072.2	10331.4	11058.2	10846.7	8091.3
47.5°	11688.4	11674.7	11780.5	11734.5	11532.1	11412.4	11683.8	11095.1	11936.9	11729.8	8790.5
50°	10851.3	10874.2	11182.4	11564.2	11660.8	11803.5	12185.2	11900.1	12879.8	12659.0	9595.4
52.5°	8785.9	8942.4	9871.5	10791.4	11504.5	12042.7	12774.0	13050.0	14416.2	14200.0	10851.3
55°	6559.5	6624.0	7635.9	9209.1	10874.2	12024.2	13211.1	13726.2	15175.2	14954.5	11182.4
57.5°	5202.5	5225.6	5727.0	7332.3	9577.1	11610.2	13441.1	13970.0	15506.4	15322.4	11674.7
60°	4084.7	4112.3	4475.7	5579.8	7750.9	10492.5	13109.8	14181.7	16155.0	16007.8	12534.9
62.5°	3178.6	3206.2	3426.9	4075.6	5814.3	8772.1	12442.9	14521.9	17387.7	17318.8	13942.5
65°	2460.9	2470.2	2622.0	2925.5	4107.7	6909.1	11628.7	14839.4	19052.9	18993.2	15083.2
67.5°	1817.0	1830.7	1936.6	2125.2	2773.8	4963.3	10294.6	14595.6	20308.8	20134.0	15497.3
69°	1467.4	1481.2	1573.3	1724.9	2189.5	3910.0	9075.7	13993.1	20497.4	20331.7	15235.0
70°	1255.8	1265.0	1357.0	1485.8	1867.6	3321.2	8109.7	13473.2	20248.9	20088.0	14637.0
72.5°	805.0	851.0	943.0	1025.8	1237.4	2198.8	5473.9	11173.3	17470.5	17194.5	11463.1
75°	446.3	460.0	625.6	726.8	823.4	1430.5	3045.2	6968.9	11113.5	10920.3	6131.7
77.5°	367.9	377.2	441.6	552.0	552.0	800.5	1150.0	2746.1	4227.3	3813.3	1660.6
80°	257.7	266.8	335.8	363.4	395.6	450.8	372.6	602.6	653.2	579.6	248.3
82.5°	179.4	188.6	230.0	299.1	317.4	211.6	138.0	179.4	188.6	188.6	96.5
85°	32.2	46.0	170.2	248.3	188.6	64.4	78.2	64.4	59.8	64.4	23.1
87.5°	0.0	0.0	105.8	119.6	101.2	27.7	32.2	23.1	13.7	18.3	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: ARCH-L-AF72-240-D-U-T2R-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6	1982.6
2.5°	1996.3	1899.8	1734.2	1614.7	1513.4	1435.2	1403.0	1352.4	1315.6	1333.9	1311.0
5°	2051.6	1881.3	1614.7	1444.4	1324.8	1223.6	1140.7	1076.4	1025.8	1016.5	1007.4
7.5°	2139.0	1895.2	1545.6	1333.9	1154.6	998.2	869.3	772.8	699.1	699.1	671.6
10°	2258.6	1931.9	1504.2	1223.6	956.8	745.1	616.4	524.5	487.7	483.0	473.7
12.5°	2424.1	2001.0	1471.9	1081.0	745.1	542.8	464.6	432.4	418.6	414.0	409.4
15°	2649.5	2102.1	1435.2	906.2	565.8	446.3	414.0	386.3	372.6	367.9	363.4
17.5°	2865.8	2194.2	1357.0	726.8	460.0	404.8	367.9	345.0	326.5	322.0	322.0
20°	3068.1	2272.4	1223.6	565.8	414.0	363.4	326.5	299.1	280.6	276.0	276.0
22.5°	3279.8	2336.7	1057.9	460.0	377.2	322.0	285.1	257.7	239.2	234.6	230.0
25°	3505.1	2382.7	869.3	409.4	340.4	285.1	243.7	220.8	207.0	202.3	197.8
27.5°	3748.9	2401.2	690.0	372.6	299.1	248.3	211.6	188.6	179.4	174.9	174.9
30°	3969.7	2382.7	533.6	331.2	262.2	216.3	184.0	165.6	156.3	151.8	151.8
32.5°	4199.7	2336.7	427.7	294.4	230.0	184.0	156.3	142.6	138.0	133.4	133.4
35°	4443.6	2277.0	367.9	262.2	197.8	161.0	138.0	128.8	124.2	119.6	119.6
37.5°	4728.7	2203.3	335.8	234.6	174.9	142.6	119.6	115.0	110.4	110.4	110.4
40°	5050.7	2111.3	312.8	211.6	156.3	124.2	105.8	101.2	96.5	96.5	96.5
42.5°	5391.2	2005.6	289.7	188.6	138.0	105.8	92.0	92.0	87.4	87.4	82.8
45°	5772.9	1899.8	266.8	165.6	119.6	92.0	78.2	73.6	73.6	69.1	69.1
47.5°	6223.7	1803.3	243.7	147.2	105.8	78.2	69.1	64.4	59.8	55.1	55.1
50°	6858.5	1793.9	216.3	128.8	96.5	64.4	55.1	50.6	46.0	41.4	41.4
52.5°	7488.7	1711.2	184.0	105.8	78.2	55.1	41.4	36.8	32.2	32.2	27.7
55°	7631.3	1573.3	161.0	92.0	59.8	41.4	32.2	23.1	23.1	18.3	18.3
57.5°	7944.1	1508.8	138.0	73.6	46.0	32.2	18.3	13.7	13.7	13.7	13.7
60°	8560.5	1490.4	119.6	64.4	32.2	23.1	13.7	9.2	9.2	4.6	4.6
62.5°	9411.5	1471.9	101.2	55.1	23.1	13.7	9.2	4.6	0.0	0.0	0.0
65°	9880.7	1347.8	82.8	41.4	18.3	13.7	4.6	0.0	0.0	0.0	0.0
67.5°	9756.6	1113.2	73.6	27.7	13.7	9.2	4.6	0.0	0.0	0.0	0.0
69°	9236.7	938.4	59.8	23.1	13.7	9.2	4.6	0.0	0.0	0.0	0.0
70°	8611.0	809.6	55.1	18.3	9.2	4.6	4.6	0.0	0.0	0.0	0.0
72.5°	6113.3	423.2	36.8	13.7	9.2	4.6	0.0	0.0	0.0	0.0	0.0
75°	2856.6	188.6	23.1	9.2	4.6	4.6	0.0	0.0	0.0	0.0	0.0
77.5°	630.2	87.4	13.7	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.6	32.2	9.2	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	13.7	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	0.0	0.0	0.0	0.0	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)