

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: P236959

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236959
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-AF72-260-D-U-T2R-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA 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: 22312.9 lumens
Efficiency: N/A
Efficacy: 85.5 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

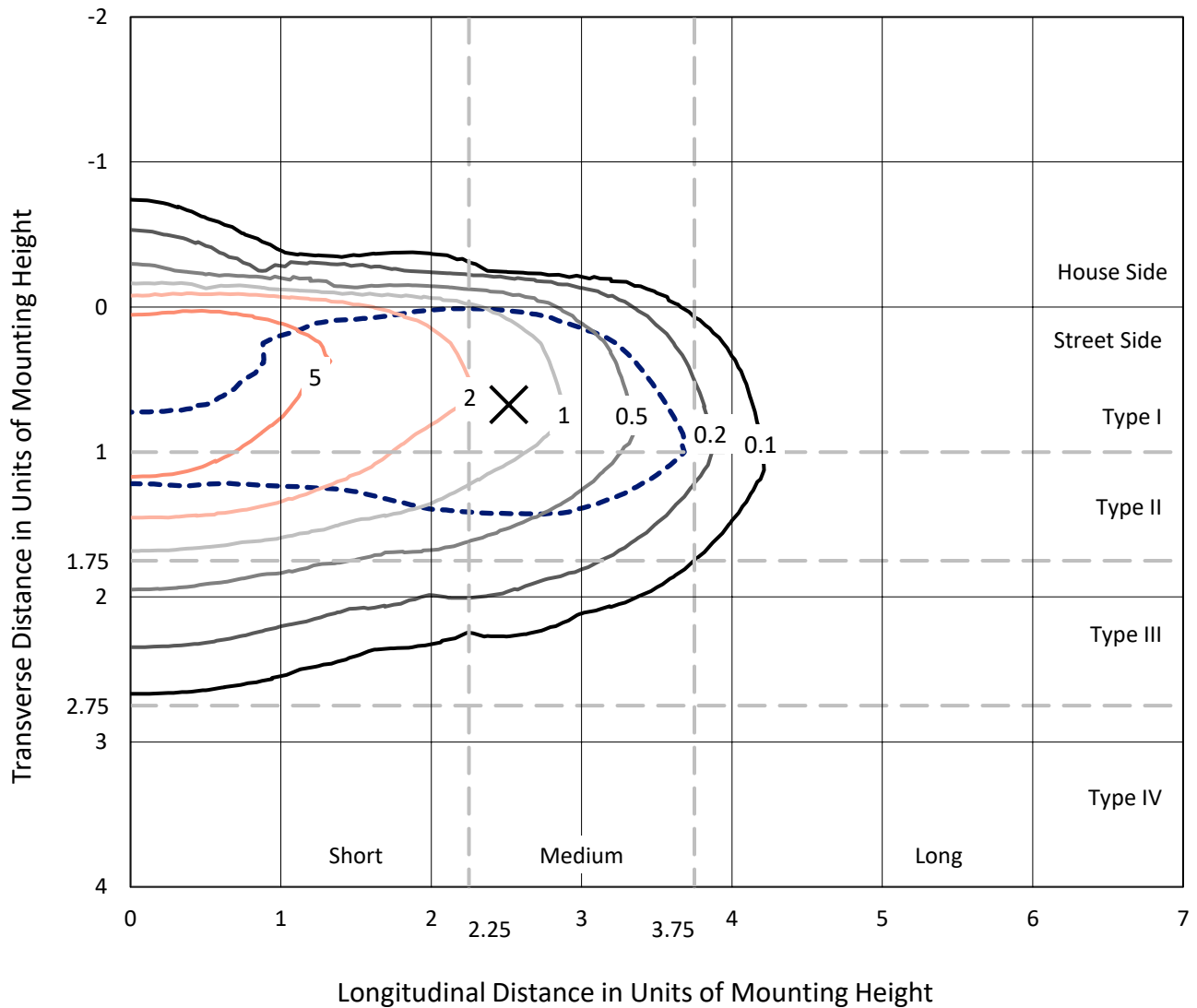
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236959
 CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

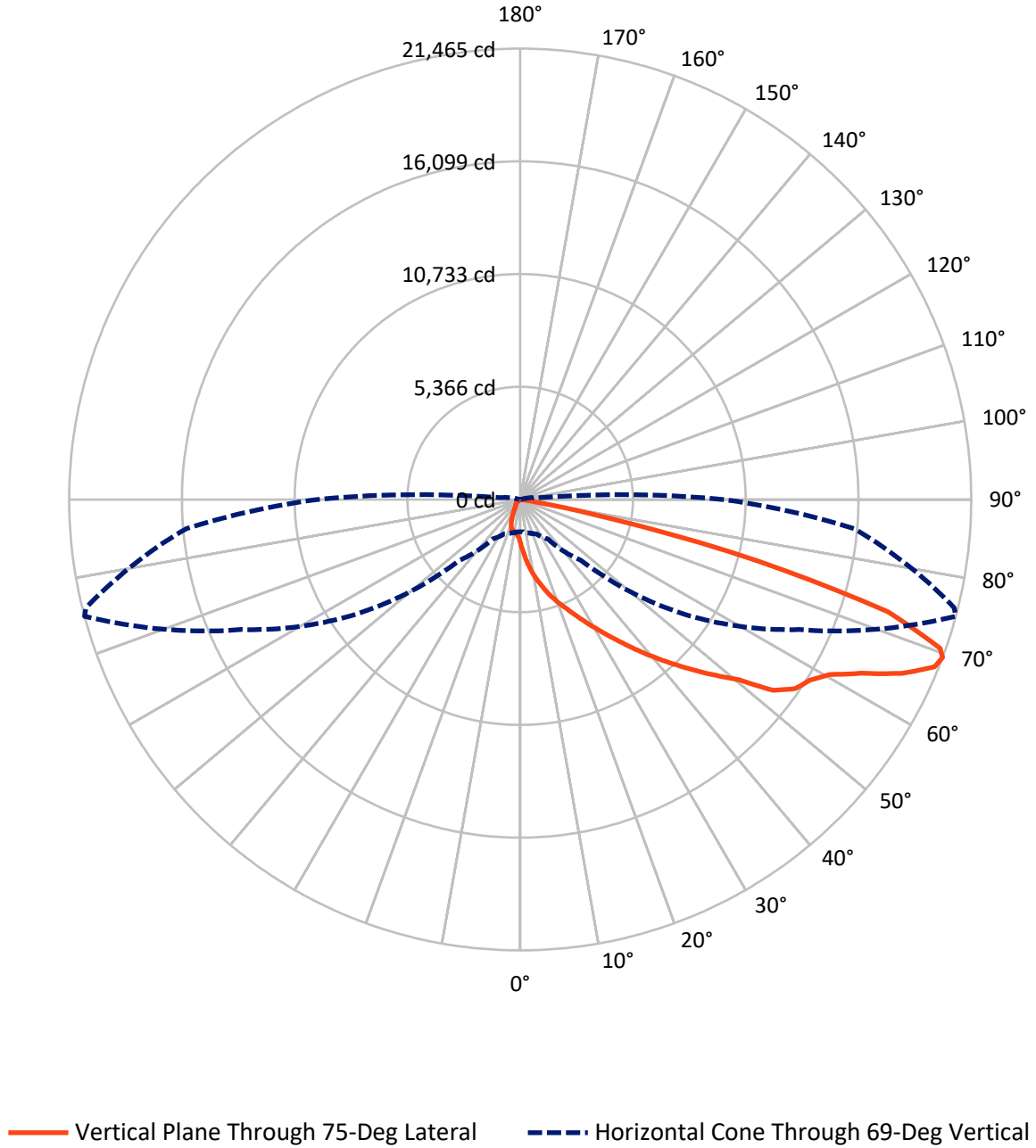
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P236959
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P236959

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

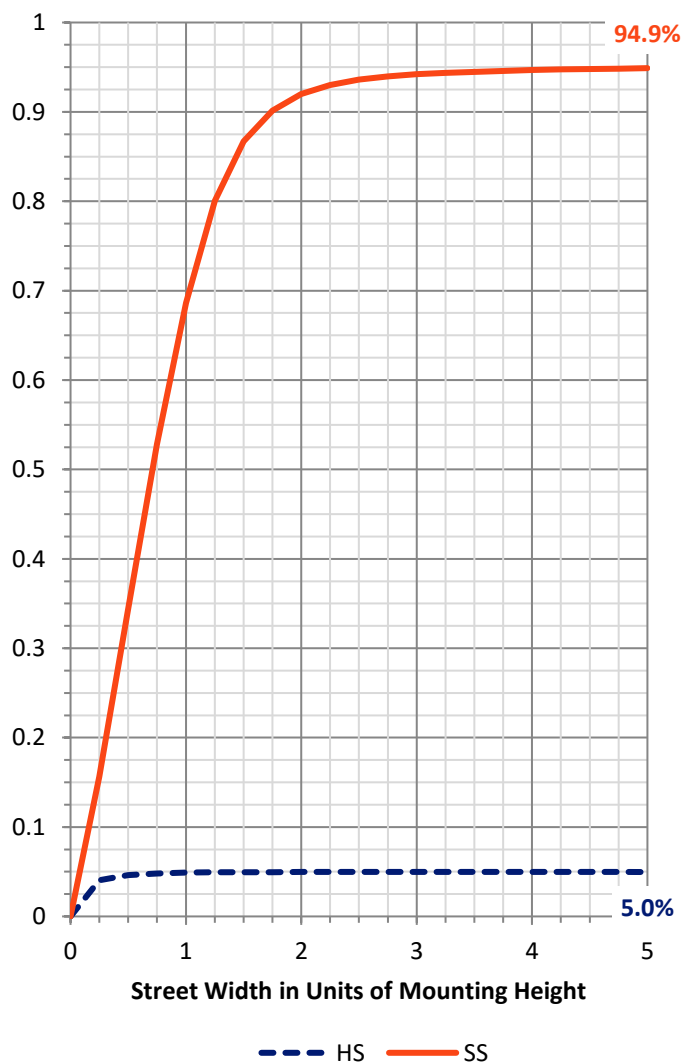
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.2	0.0	1113.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21199.7	0.0	21199.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	22312.9	0.0	22312.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.1
10°-20°	865.5	3.9
20°-30°	1652.3	7.4
30°-40°	2964.0	13.3
40°-50°	4541.0	20.4
50°-60°	5277.8	23.7
60°-70°	4673.6	20.9
70°-80°	2015.9	9.0
80°-90°	80.8	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°	22312.9	100.0
0°-180°	22312.9	100.0

Coefficient of Utilization



REPORT NUMBER: P236959

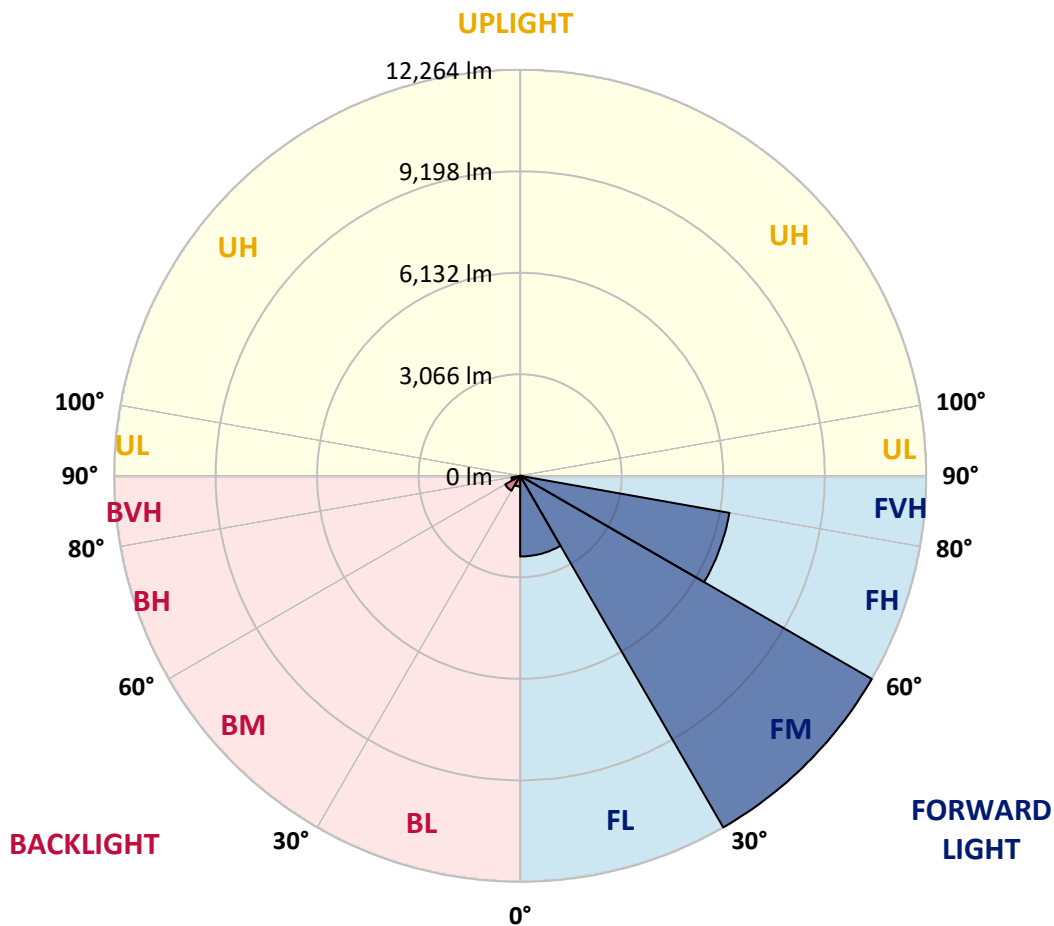
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2436.6	10.9			
FM (30°-60°)	12263.7	55.0			
FH (60°-80°)	6419.7	28.8			G3/7500
FVH (80°-90°)	79.6	0.4			G1/100
BL (0°-30°)	323.3	1.4	B1/500		
BM (30°-60°)	519.0	2.3	B1/1000		
BH (60°-80°)	269.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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: P236959

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3
2.5°	3420.3	3386.5	3352.7	3314.3	3227.5	3078.2	2890.4	2688.0	2437.5	2394.2	2191.8
5°	4152.4	4137.9	4104.3	4051.3	3954.9	3791.1	3579.3	3280.5	2861.4	2789.2	2360.4
7.5°	4667.9	4658.3	4629.4	4566.7	4479.9	4316.2	4094.6	3771.8	3285.3	3203.5	2572.4
10°	5130.3	5125.5	5101.5	5043.6	4956.9	4778.7	4542.6	4205.4	3690.0	3598.5	2818.1
12.5°	5549.4	5554.2	5544.6	5515.7	5453.0	5284.5	5014.7	4648.6	4080.2	3979.0	3111.9
15°	5795.1	5809.6	5848.1	5905.9	5925.1	5790.3	5510.8	5106.2	4479.9	4393.4	3449.1
17.5°	5713.1	5727.6	5848.1	6045.6	6233.5	6252.7	6002.2	5539.8	4875.0	4788.3	3781.5
20°	5515.7	5535.0	5660.1	5929.9	6296.1	6551.4	6450.2	6011.9	5250.8	5144.8	4099.4
22.5°	5737.3	5737.3	5775.8	5939.6	6272.0	6671.8	6806.8	6484.0	5636.1	5506.0	4417.4
25°	6498.4	6484.0	6402.0	6334.7	6440.7	6797.0	7076.5	6965.6	6088.9	5939.6	4754.5
27.5°	7461.9	7529.3	7375.1	7129.5	6888.6	7042.8	7317.3	7442.5	6590.0	6435.8	5101.5
30°	8540.9	8569.8	8386.7	8059.2	7635.2	7485.9	7601.5	7852.0	7134.3	6965.6	5462.8
32.5°	9514.0	9489.8	9335.7	8993.6	8468.5	8145.9	7967.6	8179.5	7726.9	7534.1	5833.6
35°	10376.3	10395.5	10207.6	9812.6	9297.2	8955.1	8531.3	8550.5	8391.5	8170.0	6262.3
37.5°	11151.8	11118.1	10939.8	10544.8	10077.5	9706.6	9258.6	8935.9	9119.0	8887.7	6744.0
40°	11782.8	11749.0	11561.3	11175.9	10737.6	10434.0	10082.3	9451.4	9884.9	9619.9	7259.5
42.5°	12283.8	12245.3	12086.4	11715.5	11291.5	11021.7	10853.2	10087.3	10703.8	10438.8	7837.6
45°	12529.6	12495.8	12399.4	12120.0	11749.0	11513.0	11595.0	10819.4	11580.5	11358.9	8473.5
47.5°	12240.6	12226.0	12336.8	12288.6	12076.7	11951.5	12235.6	11619.0	12500.6	12283.8	9205.6
50°	11363.7	11387.9	11710.6	12110.4	12211.6	12360.9	12760.7	12462.1	13488.2	13256.9	10048.7
52.5°	9200.8	9364.6	10337.7	11301.1	12047.8	12611.4	13377.3	13666.3	15097.1	14870.6	11363.7
55°	6869.3	6936.8	7996.5	9644.0	11387.9	12592.1	13835.0	14374.4	15891.9	15660.6	11710.6
57.5°	5448.2	5472.4	5997.3	7678.6	10029.4	12158.6	14075.9	14629.9	16238.7	16046.1	12226.0
60°	4277.7	4306.6	4687.1	5843.3	8117.0	10987.9	13729.0	14851.4	16917.9	16763.8	13126.9
62.5°	3328.7	3357.5	3588.8	4268.0	6088.9	9186.4	13030.5	15207.9	18208.9	18136.7	14600.9
65°	2577.2	2586.8	2745.8	3063.7	4301.7	7235.4	12177.8	15540.3	19952.8	19890.2	15795.6
67.5°	1902.7	1917.3	2028.1	2225.5	2904.7	5197.8	10780.8	15285.0	21267.9	21084.9	16229.2
69°	1536.7	1551.2	1647.5	1806.5	2293.1	4094.6	9504.4	14653.9	21465.4	21292.0	15954.6
70°	1315.1	1324.8	1421.0	1556.0	1955.7	3478.0	8492.7	14109.5	21205.2	21036.7	15328.3
72.5°	843.1	891.2	987.4	1074.2	1295.9	2302.6	5732.5	11701.0	18295.7	18006.7	12004.5
75°	467.3	481.8	655.1	761.1	862.3	1498.2	3189.0	7298.1	11638.3	11436.0	6421.2
77.5°	385.3	395.0	462.5	578.1	578.1	838.2	1204.2	2875.8	4426.9	3993.4	1739.0
80°	269.8	279.3	351.7	380.6	414.3	472.1	390.2	631.1	684.1	606.9	260.1
82.5°	187.8	197.5	240.8	313.1	332.3	221.6	144.5	187.8	197.5	197.5	101.2
85°	33.8	48.2	178.2	260.1	197.5	67.4	82.0	67.4	62.6	67.4	24.0
87.5°	0.0	0.0	110.8	125.2	106.0	29.0	33.8	24.0	14.4	19.2	9.7
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: P236959

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3	2076.3
2.5°	2090.6	1989.5	1816.1	1690.8	1584.8	1503.0	1469.2	1416.2	1377.8	1397.0	1373.0
5°	2148.5	1970.3	1690.8	1512.5	1387.4	1281.4	1194.6	1127.2	1074.2	1064.6	1055.0
7.5°	2240.1	1984.7	1618.5	1397.0	1209.1	1045.3	910.4	809.3	732.2	732.2	703.3
10°	2365.3	2023.3	1575.2	1281.4	1002.0	780.4	645.5	549.1	510.6	505.8	496.1
12.5°	2538.6	2095.5	1541.5	1132.0	780.4	568.4	486.5	452.8	438.3	433.5	428.8
15°	2774.7	2201.5	1503.0	949.0	592.5	467.3	433.5	404.7	390.2	385.3	380.6
17.5°	3001.2	2297.8	1421.0	761.1	481.8	423.9	385.3	361.3	342.0	337.2	337.2
20°	3213.1	2379.6	1281.4	592.5	433.5	380.6	342.0	313.1	293.8	289.0	289.0
22.5°	3434.7	2447.1	1108.0	481.8	395.0	337.2	298.8	269.8	250.5	245.8	240.8
25°	3670.7	2495.3	910.4	428.8	356.5	298.8	255.3	231.2	216.8	212.0	207.1
27.5°	3926.0	2514.6	722.5	390.2	313.1	260.1	221.6	197.5	187.8	183.0	183.0
30°	4157.2	2495.3	558.8	346.8	274.6	226.3	192.8	173.4	163.8	159.0	159.0
32.5°	4398.1	2447.1	448.0	308.3	240.8	192.8	163.8	149.3	144.5	139.8	139.8
35°	4653.5	2384.5	385.3	274.6	207.1	168.6	144.5	134.9	130.0	125.2	125.2
37.5°	4952.0	2307.4	351.7	245.8	183.0	149.3	125.2	120.4	115.6	115.6	115.6
40°	5289.2	2211.1	327.6	221.6	163.8	130.0	110.8	106.0	101.2	101.2	101.2
42.5°	5645.8	2100.3	303.5	197.5	144.5	110.8	96.3	96.3	91.6	91.6	86.8
45°	6045.6	1989.5	279.3	173.4	125.2	96.3	82.0	77.0	77.0	72.2	72.2
47.5°	6517.7	1888.3	255.3	154.2	110.8	82.0	72.2	67.4	62.6	57.8	57.8
50°	7182.4	1878.7	226.3	134.9	101.2	67.4	57.8	53.0	48.2	43.3	43.3
52.5°	7842.4	1792.0	192.8	110.8	82.0	57.8	43.3	38.6	33.8	33.8	29.0
55°	7991.8	1647.5	168.6	96.3	62.6	43.3	33.8	24.0	24.0	19.2	19.2
57.5°	8319.3	1580.0	144.5	77.0	48.2	33.8	19.2	14.4	14.4	14.4	14.4
60°	8964.8	1560.8	125.2	67.4	33.8	24.0	14.4	9.7	9.7	4.8	4.8
62.5°	9855.9	1541.5	106.0	57.8	24.0	14.4	9.7	4.8	0.0	0.0	0.0
65°	10347.3	1411.4	86.8	43.3	19.2	14.4	4.8	0.0	0.0	0.0	0.0
67.5°	10217.3	1165.8	77.0	29.0	14.4	9.7	4.8	0.0	0.0	0.0	0.0
69°	9672.9	982.7	62.6	24.0	14.4	9.7	4.8	0.0	0.0	0.0	0.0
70°	9017.8	847.9	57.8	19.2	9.7	4.8	4.8	0.0	0.0	0.0	0.0
72.5°	6402.0	443.1	38.6	14.4	9.7	4.8	0.0	0.0	0.0	0.0	0.0
75°	2991.5	197.5	24.0	9.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	659.9	91.6	14.4	9.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	125.2	33.8	9.7	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.3	14.4	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	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)