

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: P265672

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2R-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T2R-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA 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: 16930.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 201
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: 28.75 FT

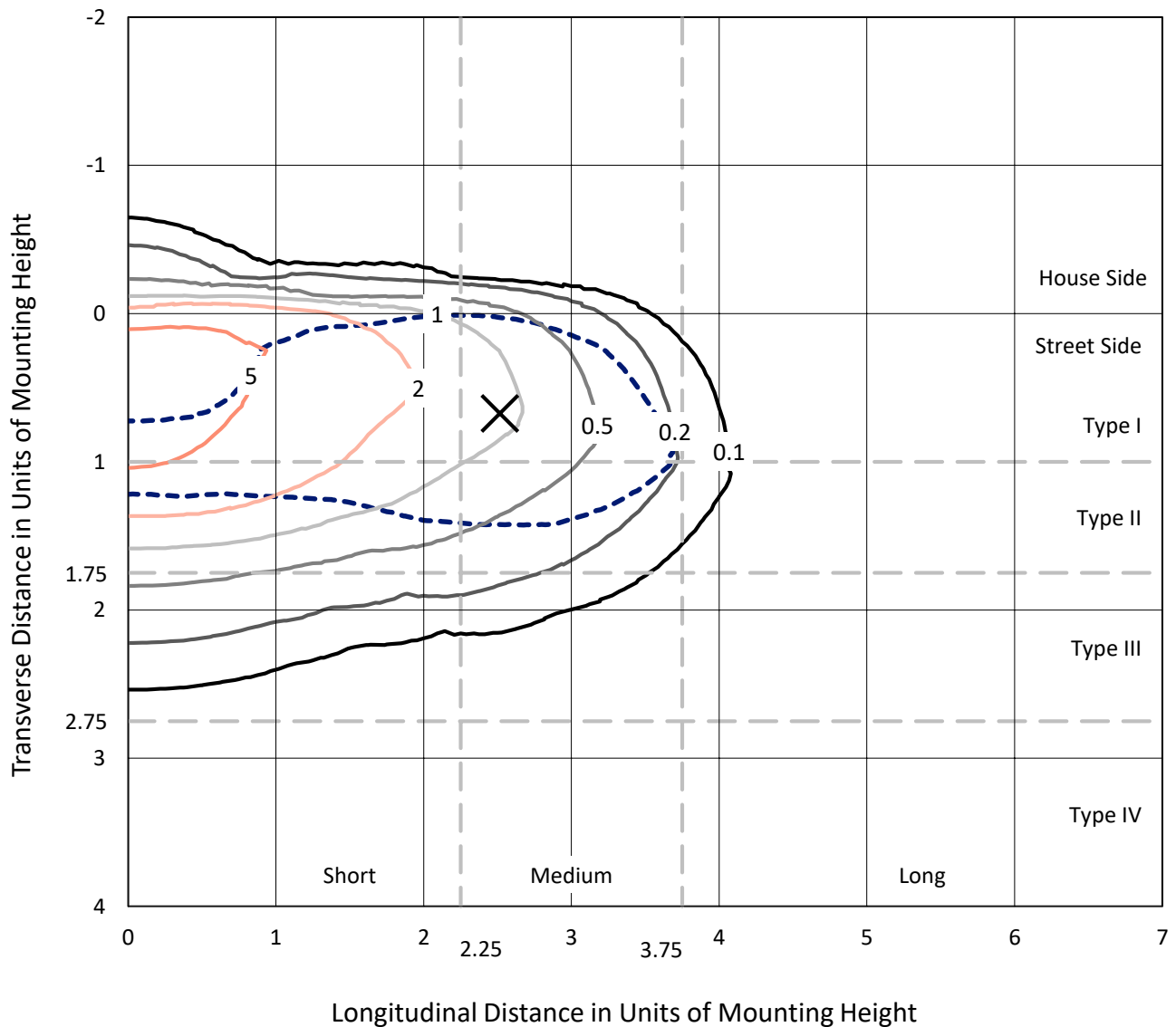


REPORT NUMBER: P265672

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

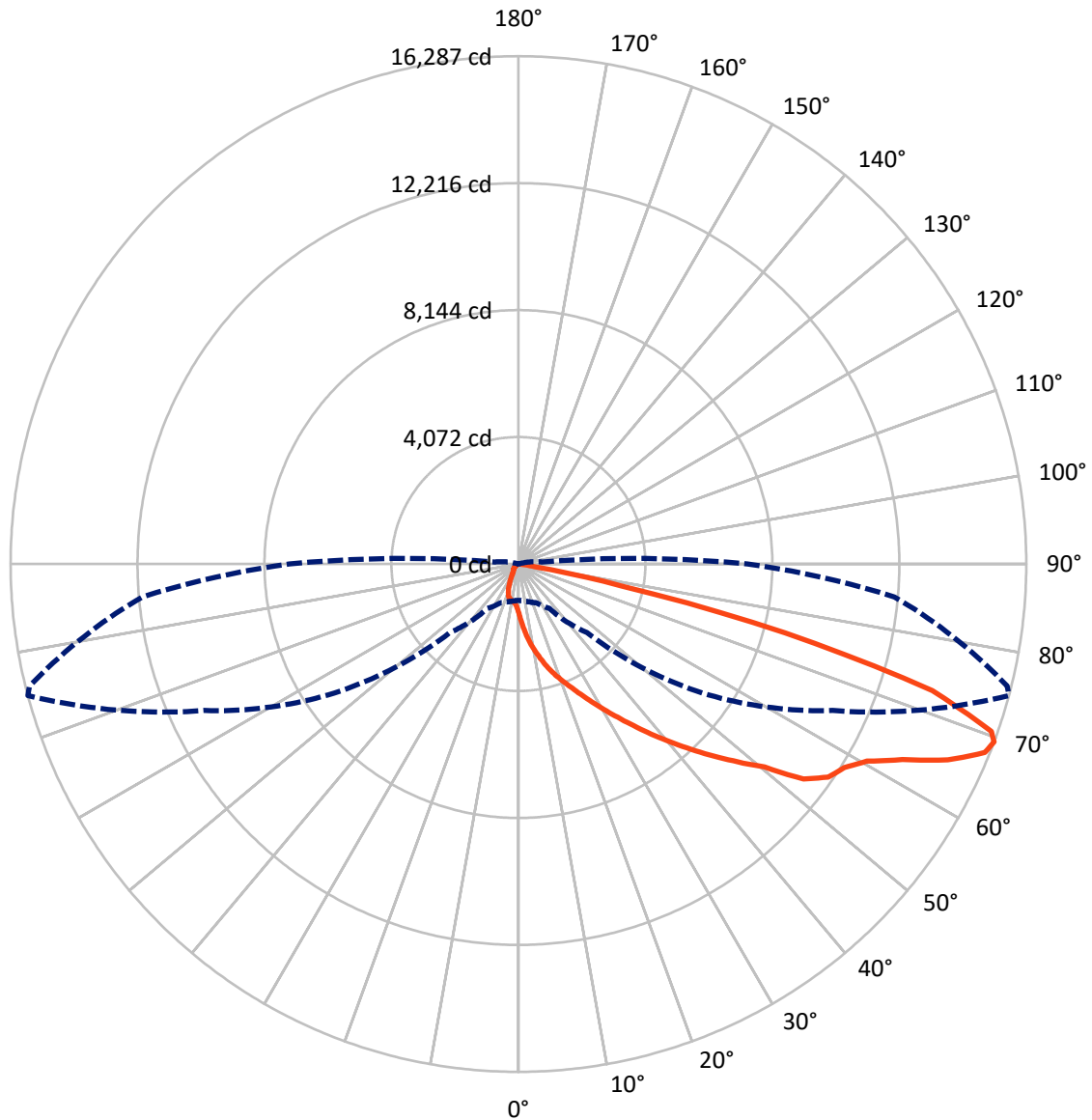


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P265672

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P265672

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

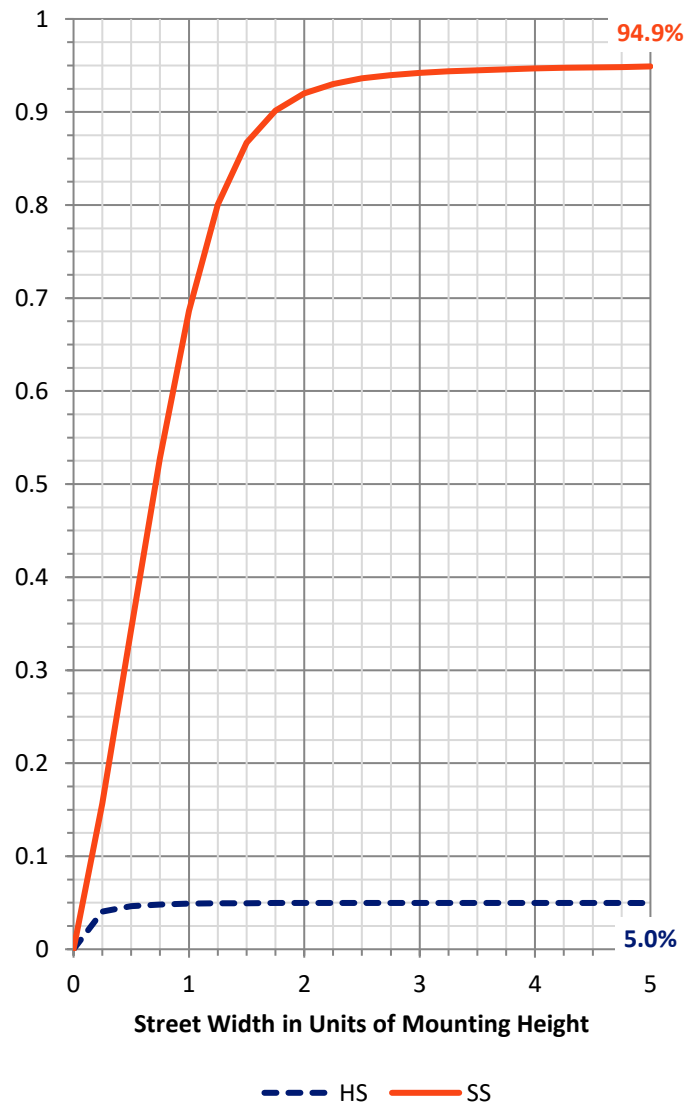
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.7	0.0	844.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16085.8	0.0	16085.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	16930.6	0.0	16930.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	1.1
10°-20°	656.7	3.9
20°-30°	1253.7	7.4
30°-40°	2249.0	13.3
40°-50°	3445.6	20.4
50°-60°	4004.7	23.7
60°-70°	3546.2	20.9
70°-80°	1529.6	9.0
80°-90°	61.3	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°	16930.6	100.0
0°-180°	16930.6	100.0

Coefficient of Utilization



REPORT NUMBER: P265672

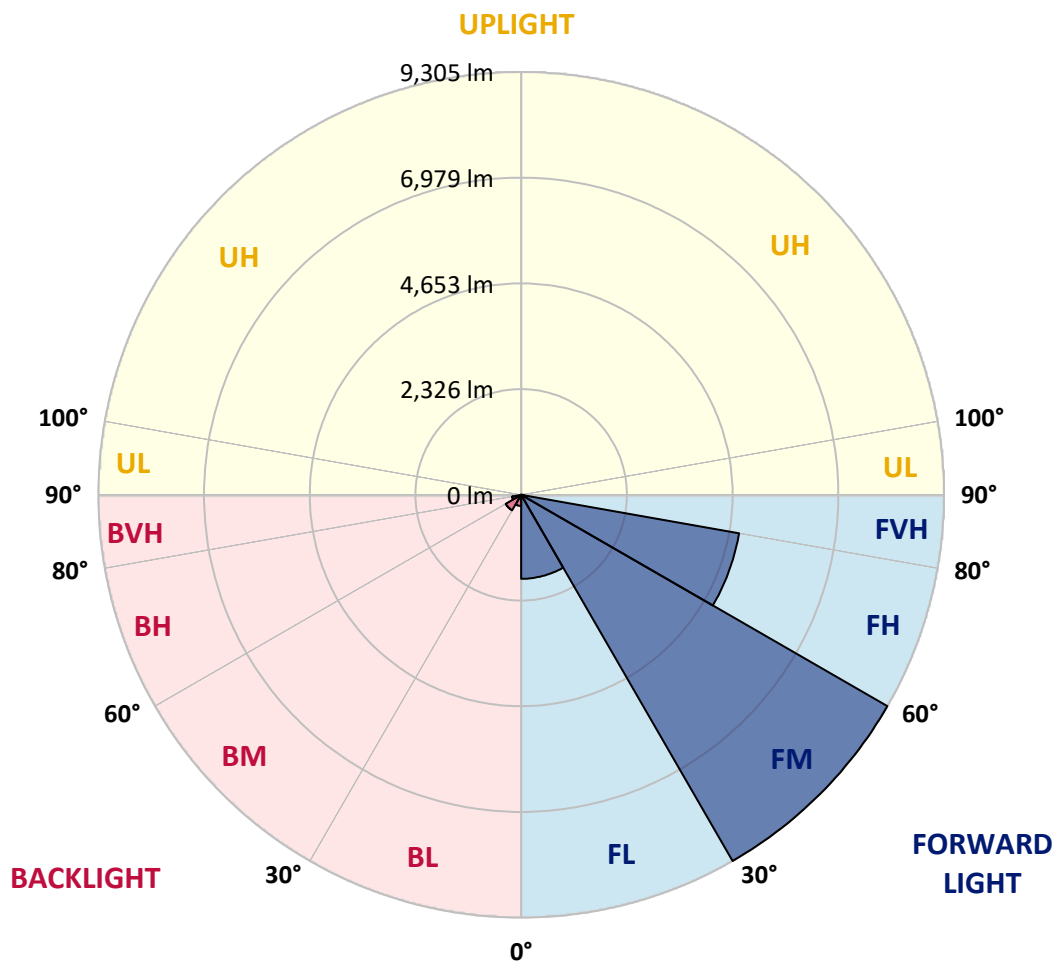
CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.8	10.9			
FM	(30°-60°)	9305.5	55.0			
FH	(60°-80°)	4871.1	28.8			G2/5000
FVH	(80°-90°)	60.4	0.4			G1/100
BL	(0°-30°)	245.3	1.4	B1/500		
BM	(30°-60°)	393.8	2.3	B1/1000		
BH	(60°-80°)	204.7	1.2	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G2

Type II Medium





REPORT NUMBER: P265672

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4
2.5°	2595.2	2569.6	2544.0	2514.7	2449.0	2335.7	2193.1	2039.6	1849.5	1816.6	1663.1
5°	3150.7	3139.8	3114.2	3074.0	3000.9	2876.6	2715.8	2489.2	2171.2	2116.3	1791.0
7.5°	3541.8	3534.6	3512.6	3465.1	3399.4	3275.0	3106.9	2862.0	2492.8	2430.8	1951.8
10°	3892.7	3889.1	3870.8	3827.0	3761.2	3626.0	3446.8	3191.0	2799.8	2730.4	2138.2
12.5°	4210.7	4214.4	4207.1	4185.2	4137.7	4009.8	3805.0	3527.3	3095.9	3019.2	2361.3
15°	4397.2	4408.2	4437.4	4481.3	4495.8	4393.5	4181.5	3874.5	3399.4	3333.5	2617.1
17.5°	4335.0	4346.0	4437.4	4587.3	4729.8	4744.4	4554.3	4203.4	3699.0	3633.3	2869.4
20°	4185.2	4199.8	4294.8	4499.5	4777.4	4971.0	4894.2	4561.7	3984.2	3903.8	3110.6
22.5°	4353.4	4353.4	4382.6	4506.8	4759.0	5062.4	5164.7	4919.8	4276.6	4177.8	3351.8
25°	4930.8	4919.8	4857.8	4806.6	4887.0	5157.4	5369.4	5285.4	4620.2	4506.8	3607.7
27.5°	5661.8	5713.0	5596.1	5409.7	5226.9	5343.8	5552.2	5647.3	5000.2	4883.4	3870.8
30°	6480.6	6502.7	6363.7	6115.1	5793.4	5680.2	5767.8	5958.0	5413.4	5285.4	4145.0
32.5°	7219.0	7200.8	7083.8	6824.2	6425.8	6180.9	6045.7	6206.5	5862.9	5716.8	4426.4
35°	7873.3	7887.8	7745.4	7445.6	7054.5	6795.0	6473.4	6488.0	6367.4	6199.2	4751.8
37.5°	8461.8	8436.2	8300.9	8001.3	7646.6	7365.3	7025.3	6780.3	6919.3	6743.8	5117.3
40°	8940.7	8915.0	8772.4	8480.0	8147.4	7917.1	7650.2	7171.4	7500.4	7299.4	5508.3
42.5°	9320.8	9291.4	9170.8	8889.4	8567.8	8363.0	8235.1	7654.0	8121.8	7920.7	5947.0
45°	9507.1	9481.5	9408.4	9196.4	8915.0	8735.8	8798.0	8209.5	8787.0	8618.9	6429.4
47.5°	9287.8	9276.8	9360.9	9324.3	9163.5	9068.5	9284.2	8816.2	9485.3	9320.8	6985.0
50°	8622.7	8640.8	8885.8	9189.1	9265.8	9379.3	9682.7	9456.0	10234.5	10059.0	7624.8
52.5°	6981.4	7105.7	7844.0	8575.0	9141.6	9569.3	10150.4	10369.8	11455.4	11283.5	8622.7
55°	5212.2	5263.4	6067.6	7317.7	8640.8	9554.6	10497.7	10907.0	12058.5	11883.0	8885.8
57.5°	4134.0	4152.2	4550.8	5826.3	7610.1	9225.7	10680.4	11100.7	12321.6	12175.4	9276.8
60°	3245.8	3267.8	3556.5	4433.8	6159.0	8337.4	10417.3	11268.9	12837.0	12720.0	9960.3
62.5°	2525.8	2547.7	2723.1	3238.5	4620.2	6970.4	9887.3	11539.4	13816.7	13761.8	11078.8
65°	1955.5	1962.8	2083.4	2324.8	3264.1	5490.1	9240.2	11791.6	15139.8	15092.2	11985.4
67.5°	1443.8	1454.7	1538.8	1688.8	2204.1	3944.0	8180.2	11597.8	16137.6	15998.8	12314.2
69°	1166.0	1177.0	1250.1	1370.8	1739.8	3106.9	7211.7	11119.0	16287.4	16155.8	12106.0
70°	997.8	1005.2	1078.2	1180.6	1484.0	2639.0	6444.1	10706.0	16090.1	15962.2	11630.7
72.5°	639.7	676.2	749.2	815.1	983.3	1747.2	4349.7	8878.4	13882.3	13663.1	9108.8
75°	354.6	365.5	497.1	577.5	654.2	1136.7	2419.8	5537.6	8830.9	8677.4	4872.3
77.5°	292.4	299.8	350.9	438.6	438.6	636.0	913.8	2182.2	3359.1	3030.2	1319.5
80°	204.8	212.0	266.8	288.7	314.3	358.2	296.1	478.8	519.0	460.6	197.4
82.5°	142.6	149.8	182.7	237.6	252.2	168.2	109.7	142.6	149.8	149.8	76.7
85°	25.6	36.6	135.3	197.4	149.8	51.2	62.2	51.2	47.5	51.2	18.2
87.5°	0.0	0.0	84.1	95.0	80.4	21.9	25.6	18.2	11.0	14.6	7.2
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: P265672

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T2R-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4
2.5°	1586.3	1509.6	1378.0	1283.0	1202.6	1140.4	1114.8	1074.6	1045.4	1060.0	1041.8
5°	1630.2	1495.0	1283.0	1147.8	1052.8	972.2	906.5	855.2	815.1	807.8	800.5
7.5°	1699.7	1505.9	1228.2	1060.0	917.4	793.2	690.8	614.1	555.6	555.6	533.7
10°	1794.8	1535.2	1195.3	972.2	760.2	592.2	489.8	416.8	387.4	383.8	376.5
12.5°	1926.2	1590.0	1169.7	859.0	592.2	431.2	369.2	343.6	332.6	329.0	325.2
15°	2105.4	1670.4	1140.4	720.1	449.6	354.6	329.0	307.0	296.1	292.4	288.7
17.5°	2277.2	1743.5	1078.2	577.5	365.5	321.7	292.4	274.2	259.5	255.8	255.8
20°	2438.0	1805.7	972.2	449.6	329.0	288.7	259.5	237.6	223.0	219.2	219.2
22.5°	2606.2	1856.8	840.8	365.5	299.8	255.8	226.6	204.8	190.1	186.4	182.7
25°	2785.3	1893.4	690.8	325.2	270.5	226.6	193.8	175.4	164.5	160.8	157.2
27.5°	2979.0	1908.0	548.2	296.1	237.6	197.4	168.2	149.8	142.6	138.9	138.9
30°	3154.4	1893.4	424.0	263.2	208.3	171.8	146.2	131.6	124.2	120.6	120.6
32.5°	3337.2	1856.8	339.9	233.9	182.7	146.2	124.2	113.2	109.7	106.0	106.0
35°	3530.9	1809.4	292.4	208.3	157.2	127.9	109.7	102.3	98.8	95.0	95.0
37.5°	3757.5	1750.8	266.8	186.4	138.9	113.2	95.0	91.4	87.8	87.8	87.8
40°	4013.4	1677.8	248.6	168.2	124.2	98.8	84.1	80.4	76.7	76.7	76.7
42.5°	4283.8	1593.7	230.2	149.8	109.7	84.1	73.1	73.1	69.4	69.4	65.8
45°	4587.3	1509.6	212.0	131.6	95.0	73.1	62.2	58.5	58.5	54.8	54.8
47.5°	4945.4	1432.8	193.8	117.0	84.1	62.2	54.8	51.2	47.5	43.8	43.8
50°	5449.8	1425.5	171.8	102.3	76.7	51.2	43.8	40.2	36.6	32.9	32.9
52.5°	5950.6	1359.8	146.2	84.1	62.2	43.8	32.9	29.3	25.6	25.6	21.9
55°	6064.0	1250.1	127.9	73.1	47.5	32.9	25.6	18.2	18.2	14.6	14.6
57.5°	6312.5	1198.9	109.7	58.5	36.6	25.6	14.6	11.0	11.0	11.0	11.0
60°	6802.2	1184.2	95.0	51.2	25.6	18.2	11.0	7.2	7.2	3.7	3.7
62.5°	7478.5	1169.7	80.4	43.8	18.2	11.0	7.2	3.7	0.0	0.0	0.0
65°	7851.4	1071.0	65.8	32.9	14.6	11.0	3.7	0.0	0.0	0.0	0.0
67.5°	7752.6	884.6	58.5	21.9	11.0	7.2	3.7	0.0	0.0	0.0	0.0
69°	7339.6	745.7	47.5	18.2	11.0	7.2	3.7	0.0	0.0	0.0	0.0
70°	6842.5	643.2	43.8	14.6	7.2	3.7	3.7	0.0	0.0	0.0	0.0
72.5°	4857.8	336.2	29.3	11.0	7.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	2269.8	149.8	18.2	7.2	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	500.7	69.4	11.0	7.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.0	25.6	7.2	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	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)