

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: P841146

Luminaire Tested: **ARCH4-140-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20497 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

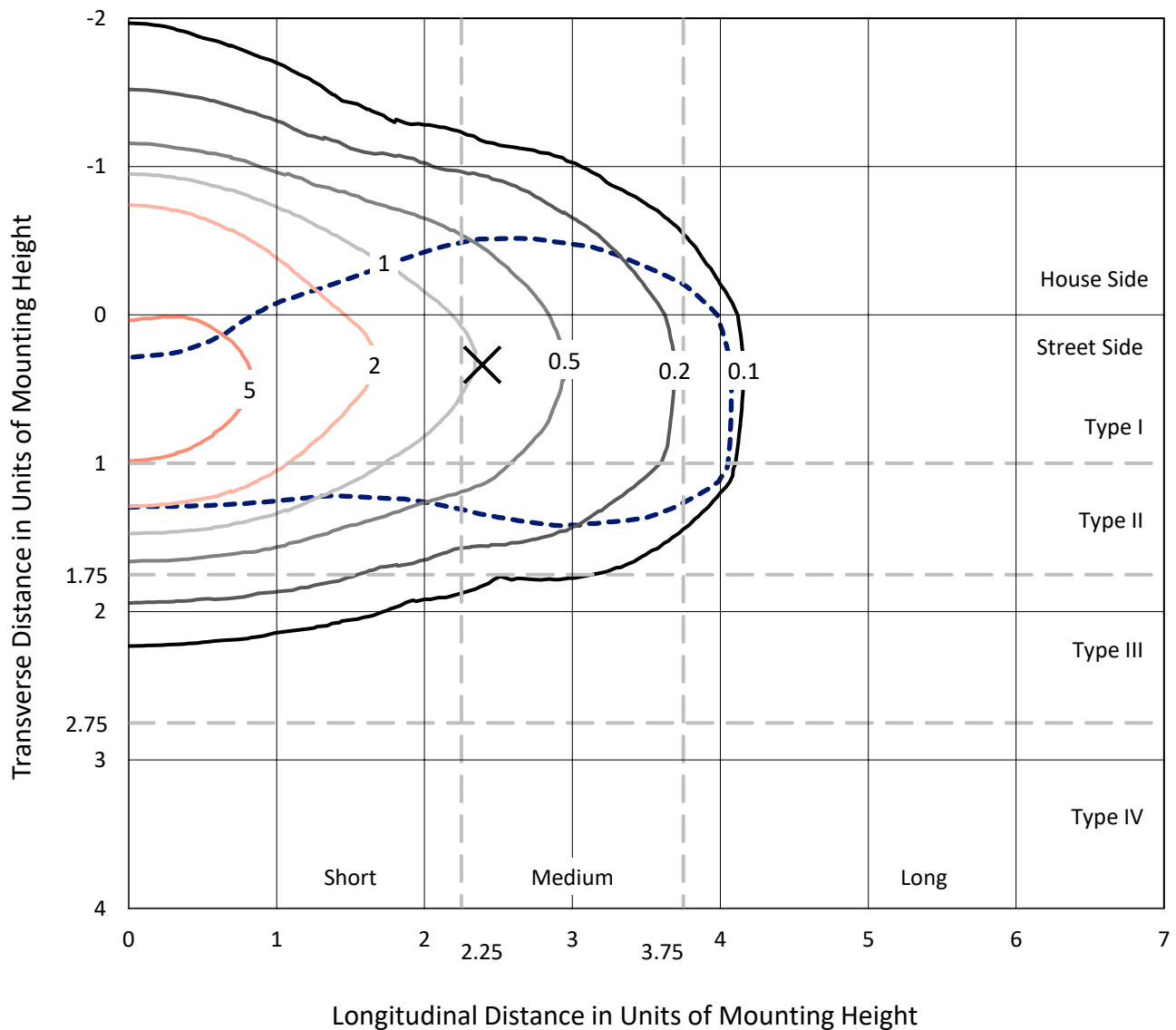
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841146
CATALOG NUMBER: ARCH4-140-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

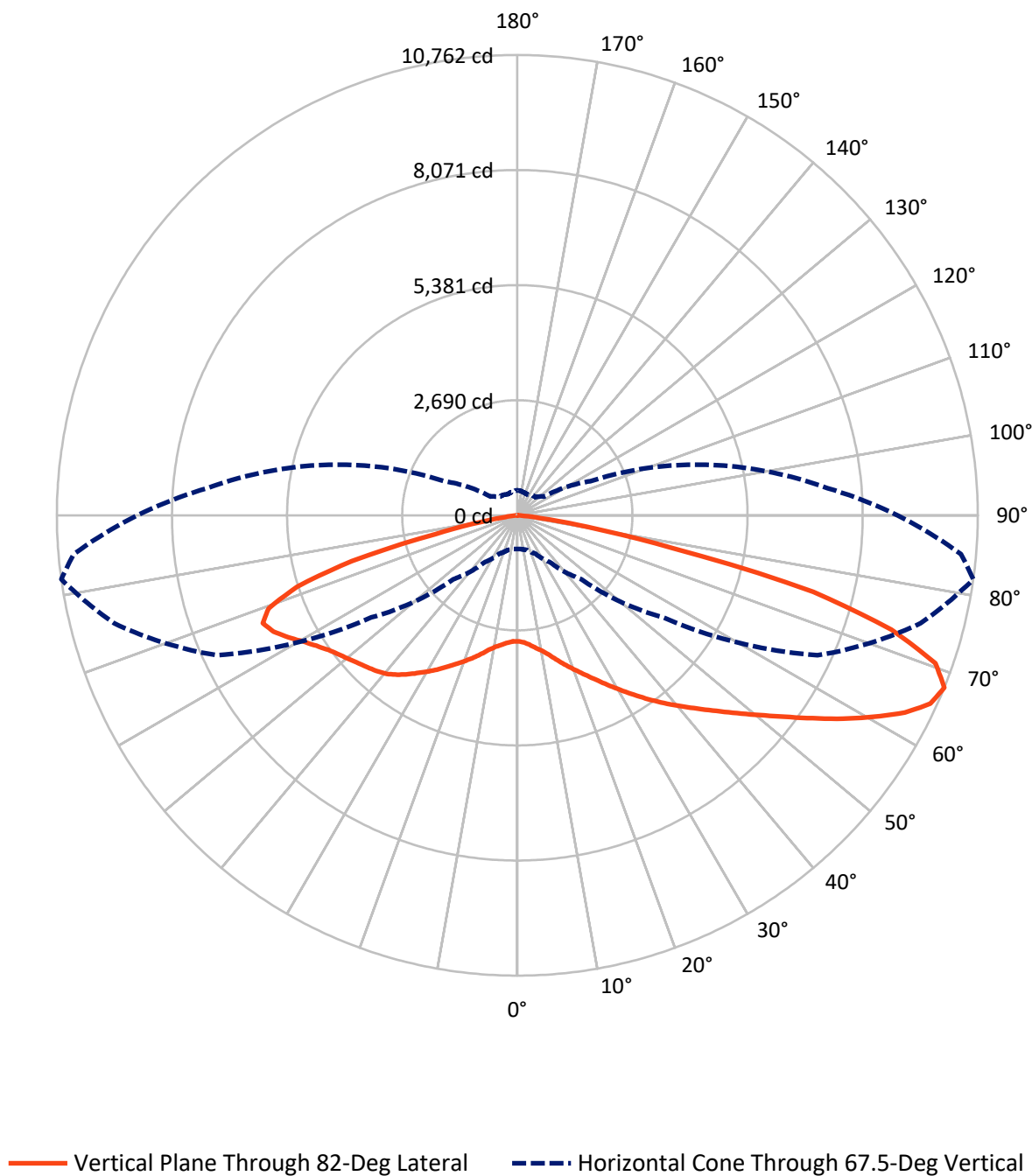
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - N/A

REPORT NUMBER: P841146
CATALOG NUMBER: ARCH4-140-722-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P841146

CATALOG NUMBER: ARCH4-140-722-U-T2R

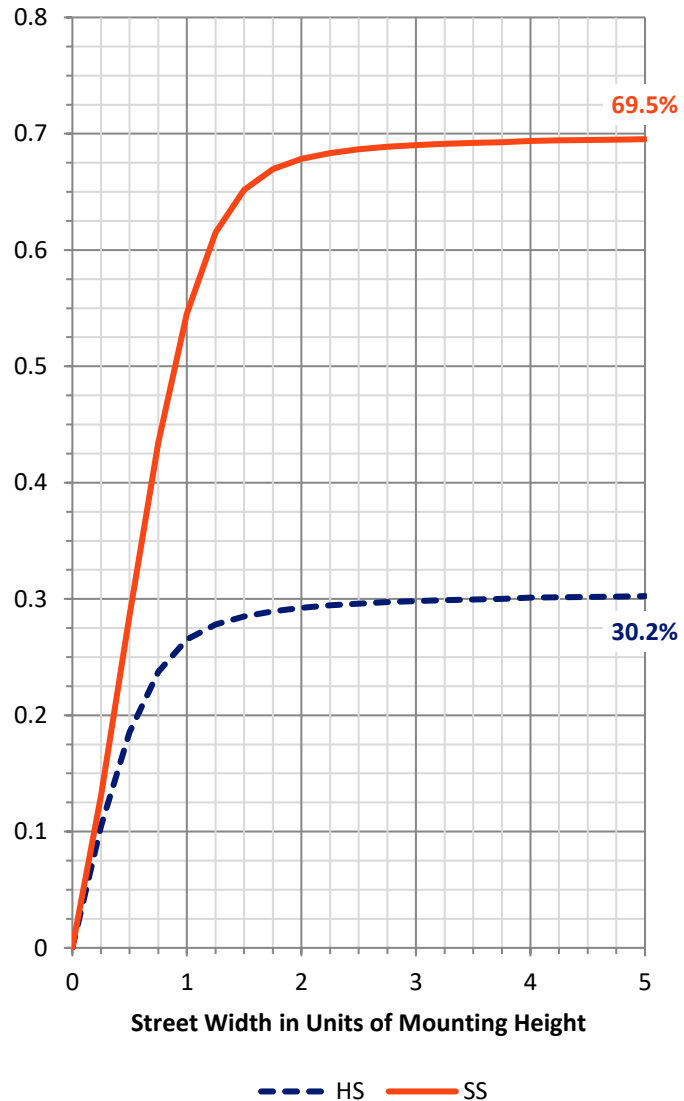
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6242.2	0.0	6242.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14254.8	0.0	14254.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	20497.0	0.0	20497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.5
10°-20°	1096.8	5.4
20°-30°	2204.4	10.8
30°-40°	3462.7	16.9
40°-50°	4218.3	20.6
50°-60°	3985.8	19.4
60°-70°	3291.3	16.1
70°-80°	1792.3	8.7
80°-90°	140.9	0.7
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°	20497.0	100.0
0°-180°	20497.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841146

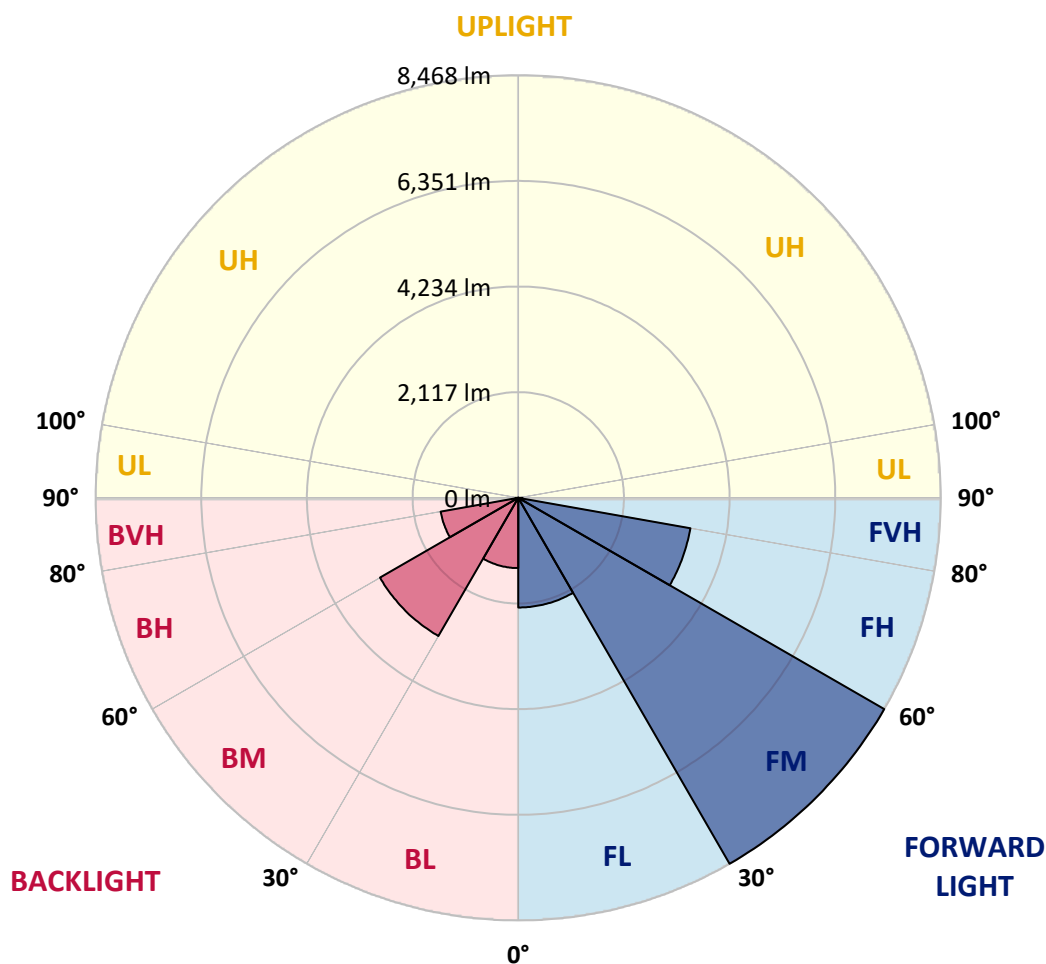
CATALOG NUMBER: ARCH4-140-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2198.0	10.7			
FM	(30°-60°)	8468.2	41.3			
FH	(60°-80°)	3503.7	17.1			G2/5000
FVH	(80°-90°)	84.9	0.4			G1/100
BL	(0°-30°)	1407.7	6.9	B3/2500		
BM	(30°-60°)	3198.6	15.6	B3/5000		
BH	(60°-80°)	1579.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	56.0	0.3			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 Medium



REPORT NUMBER: P841146

CATALOG NUMBER: ARCH4-140-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	3080.4	3080.4	3104.2	3104.2	3083.3	3050.6	3041.7	3006.0	2973.2	2973.2	2976.2
5°	3375.0	3372.0	3389.9	3366.1	3315.5	3250.0	3205.4	3128.0	3062.5	3041.7	3038.7
7.5°	3735.1	3732.1	3741.1	3702.4	3607.1	3500.0	3410.7	3285.7	3178.6	3133.9	3122.0
10°	4136.9	4133.9	4125.0	4059.5	3931.6	3764.9	3631.0	3458.3	3297.6	3226.2	3211.3
12.5°	4598.2	4592.3	4571.4	4476.2	4300.6	4086.3	3892.9	3669.6	3455.4	3357.1	3324.4
15°	5113.1	5104.2	5065.5	4949.4	4714.3	4443.5	4193.5	3907.7	3645.8	3517.9	3473.2
17.5°	5654.8	5654.8	5595.2	5422.6	5160.7	4824.4	4514.9	4151.8	3845.2	3687.5	3633.9
20°	6205.4	6202.4	6128.0	5919.7	5610.1	5223.2	4830.4	4431.6	4050.6	3860.1	3794.6
22.5°	6785.7	6779.8	6687.5	6449.4	6080.4	5642.9	5184.5	4708.3	4276.8	4047.6	3964.3
25°	7452.4	7443.5	7330.4	7038.7	6601.2	6107.2	5583.3	5032.7	4535.7	4256.0	4157.7
27.5°	8160.7	8148.8	8014.9	7675.6	7196.4	6601.2	6023.8	5407.7	4821.4	4488.1	4378.0
30°	8791.7	8782.8	8636.9	8288.7	7738.1	7092.3	6443.5	5782.7	5122.0	4735.1	4598.2
32.5°	9267.9	9267.9	9136.9	8794.7	8223.2	7562.5	6866.1	6136.9	5434.5	5000.0	4839.3
35°	9556.6	9565.5	9452.4	9178.6	8639.9	8006.0	7303.6	6553.6	5767.9	5282.7	5110.1
37.5°	9598.2	9628.0	9562.5	9378.0	8928.6	8375.0	7732.2	6955.4	6113.1	5568.5	5375.0
40°	9404.8	9425.6	9428.6	9357.2	9047.6	8639.9	8110.1	7381.0	6479.2	5869.1	5645.8
42.5°	9017.9	9032.8	9059.5	9080.4	8961.3	8756.0	8398.8	7776.8	6869.1	6175.6	5913.7
45°	8517.9	8514.9	8559.5	8648.8	8642.9	8690.5	8559.5	8136.9	7273.8	6523.8	6211.3
47.5°	7770.8	7756.0	7913.7	8116.1	8217.3	8440.5	8562.5	8419.7	7714.3	6907.7	6550.6
50°	6601.2	6586.3	6931.6	7407.7	7705.4	8044.7	8398.8	8589.3	8175.6	7339.3	6919.7
52.5°	5178.6	5163.7	5601.2	6434.5	7083.3	7577.4	8068.5	8628.0	8613.1	7821.4	7336.3
55°	3851.2	3839.3	4264.9	5166.7	6217.3	7035.7	7663.7	8526.8	9023.8	8375.0	7842.3
57.5°	2714.3	2708.3	3077.4	3824.4	5104.2	6375.0	7273.8	8330.4	9401.8	8976.2	8413.7
60°	1904.8	1895.8	2163.7	2741.1	3860.1	5378.0	6886.9	8068.5	9684.5	9568.5	9020.8
62.5°	1282.7	1276.8	1467.3	1949.4	2741.1	4139.9	6300.6	7892.9	9845.3	10163.7	9633.9
65°	973.2	970.2	1056.5	1321.4	1940.5	2973.2	5369.1	7872.0	9866.1	10610.1	10154.8
67.5°	785.7	788.7	836.3	988.1	1342.3	2113.1	4163.7	7741.1	9756.0	10761.9	10407.8
70°	642.9	642.9	663.7	764.9	991.1	1425.6	2907.7	7145.8	9449.4	10366.1	10107.2
72.5°	491.1	494.0	559.5	619.0	747.0	1000.0	1863.1	5913.7	8726.2	9139.9	8943.5
75°	389.9	386.9	425.6	508.9	580.4	714.3	1142.9	4241.1	7425.6	7142.9	7017.9
77.5°	279.8	276.8	306.5	378.0	440.5	506.0	681.5	2139.9	4038.7	3711.3	3619.1
80°	190.5	184.5	211.3	261.9	291.7	297.6	333.3	821.4	1761.9	1660.7	1639.9
82.5°	98.2	98.2	113.1	148.8	151.8	154.8	148.8	264.9	583.3	544.6	520.8
85°	38.7	38.7	41.7	50.6	50.6	53.6	53.6	68.5	62.5	59.5	56.5
87.5°	3.0	3.0	6.0	6.0	8.9	8.9	8.9	11.9	14.9	14.9	14.9
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: P841146

CATALOG NUMBER: ARCH4-140-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4	2946.4
2.5°	2970.2	2958.3	2919.6	2910.7	2904.8	2895.8	2898.8	2878.0	2869.1	2872.0	2860.1
5°	3023.8	3003.0	2955.4	2934.5	2928.6	2919.6	2928.6	2913.7	2898.8	2904.8	2898.8
7.5°	3098.2	3068.5	3008.9	2988.1	2985.1	2976.2	2988.1	2976.2	2964.3	2970.2	2958.3
10°	3175.6	3136.9	3071.4	3050.6	3050.6	3047.6	3059.5	3041.7	3029.8	3032.7	3026.8
12.5°	3288.7	3238.1	3166.7	3148.8	3139.9	3148.8	3151.8	3128.0	3107.1	3110.1	3101.2
15°	3425.6	3369.1	3291.7	3264.9	3258.9	3256.0	3244.1	3214.3	3187.5	3184.5	3175.6
17.5°	3574.4	3503.0	3410.7	3383.9	3357.1	3348.2	3318.5	3279.8	3238.1	3238.1	3226.2
20°	3717.3	3636.9	3526.8	3488.1	3449.4	3413.7	3363.1	3300.6	3247.0	3238.1	3226.2
22.5°	3872.0	3776.8	3648.8	3592.3	3523.8	3452.4	3366.1	3282.7	3214.3	3199.4	3190.5
25°	4044.6	3925.6	3773.8	3690.5	3580.4	3470.2	3342.3	3235.1	3154.8	3131.0	3125.0
27.5°	4235.1	4092.3	3907.7	3785.7	3625.0	3452.4	3288.7	3160.7	3062.5	3032.7	3023.8
30°	4428.6	4258.9	4029.8	3851.2	3625.0	3395.8	3190.5	3041.7	2928.6	2886.9	2881.0
32.5°	4622.0	4431.6	4139.9	3886.9	3589.3	3300.6	3062.5	2886.9	2758.9	2708.3	2720.2
35°	4854.2	4622.0	4241.1	3901.8	3529.8	3184.5	2916.7	2711.3	2580.4	2535.7	2544.6
37.5°	5095.2	4812.5	4321.4	3889.9	3446.4	3053.6	2753.0	2553.6	2389.9	2312.5	2321.4
40°	5303.6	4985.1	4378.0	3848.2	3339.3	2904.8	2592.3	2330.4	2104.2	2029.8	2020.8
42.5°	5500.0	5113.1	4407.7	3785.7	3217.3	2732.1	2363.1	2026.8	1800.6	1708.3	1711.3
45°	5705.4	5238.1	4395.8	3702.4	3065.5	2529.8	2068.5	1729.2	1529.8	1446.4	1449.4
47.5°	5940.5	5372.0	4383.9	3613.1	2881.0	2267.9	1785.7	1467.3	1294.6	1235.1	1229.2
50°	6190.5	5520.8	4369.1	3503.0	2675.6	1976.2	1506.0	1223.2	1077.4	1038.7	1029.8
52.5°	6473.2	5681.6	4360.1	3372.0	2428.6	1666.7	1256.0	1008.9	910.7	883.9	881.0
55°	6812.5	5869.1	4372.0	3214.3	2131.0	1375.0	1044.6	869.0	803.6	788.7	785.7
57.5°	7226.2	6110.1	4407.7	3029.8	1818.5	1122.0	889.9	782.7	741.1	729.2	729.2
60°	7675.6	6383.9	4473.2	2821.4	1506.0	925.6	788.7	714.3	696.4	711.3	711.3
62.5°	8160.7	6705.4	4589.3	2568.5	1214.3	782.7	708.3	657.7	645.8	675.6	678.6
65°	8610.1	7017.9	4663.7	2264.9	964.3	678.6	645.8	601.2	607.1	636.9	633.9
67.5°	8886.9	7276.8	4559.5	1883.9	764.9	601.2	580.4	541.7	556.5	580.4	583.3
70°	8717.3	7131.0	4044.6	1422.6	598.2	523.8	508.9	485.1	497.0	526.8	538.7
72.5°	7886.9	6386.9	3145.8	961.3	482.1	440.5	446.4	434.5	449.4	476.2	503.0
75°	6401.8	4827.4	2110.1	616.1	381.0	375.0	383.9	375.0	381.0	407.7	422.6
77.5°	3342.3	2354.2	1050.6	383.9	282.7	291.7	306.5	309.5	327.4	333.3	339.3
80°	1559.5	1059.5	437.5	214.3	187.5	205.4	235.1	238.1	244.0	253.0	256.0
82.5°	508.9	318.5	202.4	116.1	107.1	116.1	151.8	181.5	184.5	202.4	202.4
85°	53.6	32.7	44.6	47.6	41.7	50.6	68.5	65.5	29.8	17.9	17.9
87.5°	14.9	11.9	14.9	14.9	11.9	11.9	8.9	3.0	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)