

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: P1210421

Luminaire Tested: **ARCH3-120-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15578 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.7
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



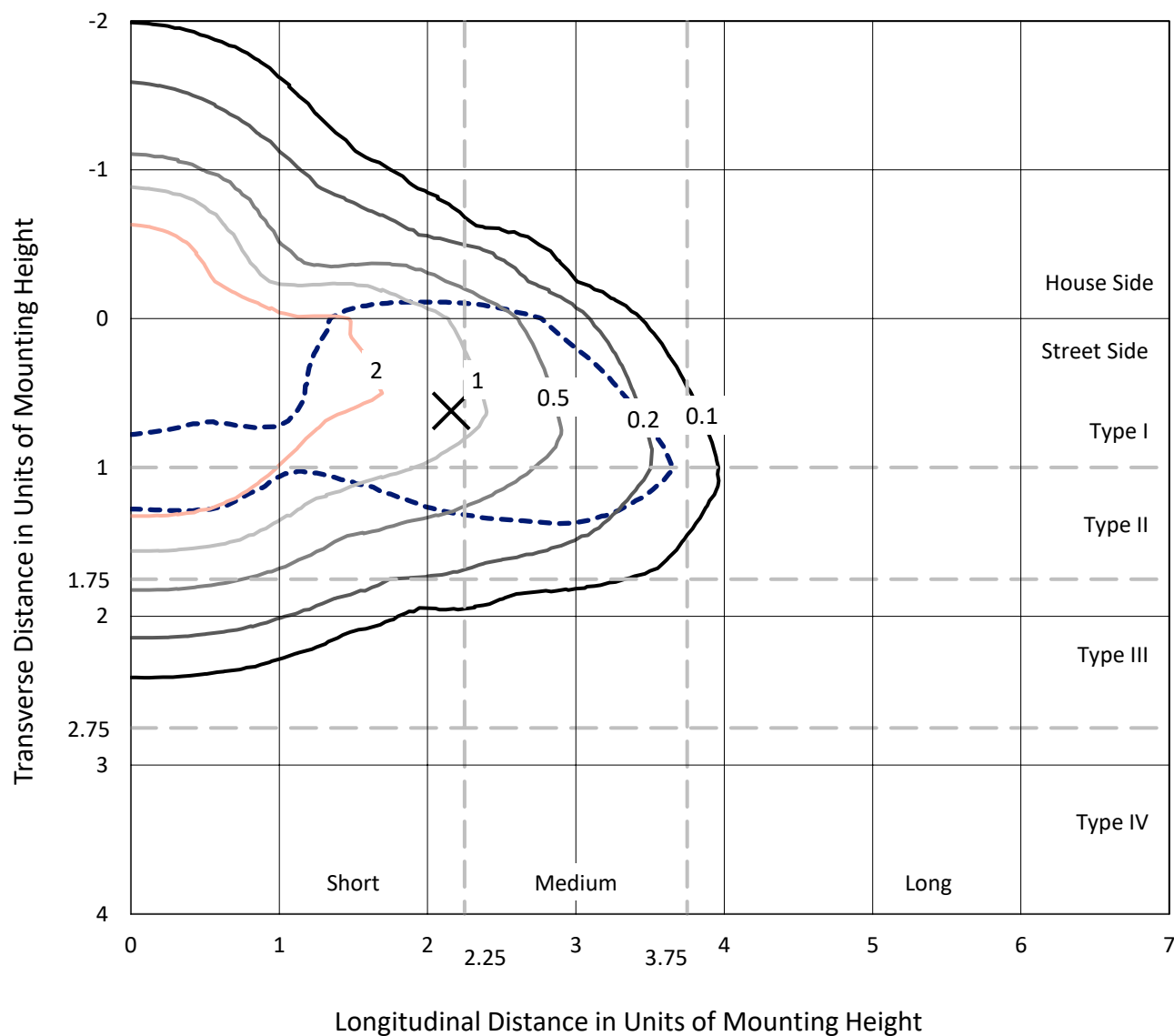
REPORT NUMBER: P1210421

CATALOG NUMBER: ARCH3-120-722-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

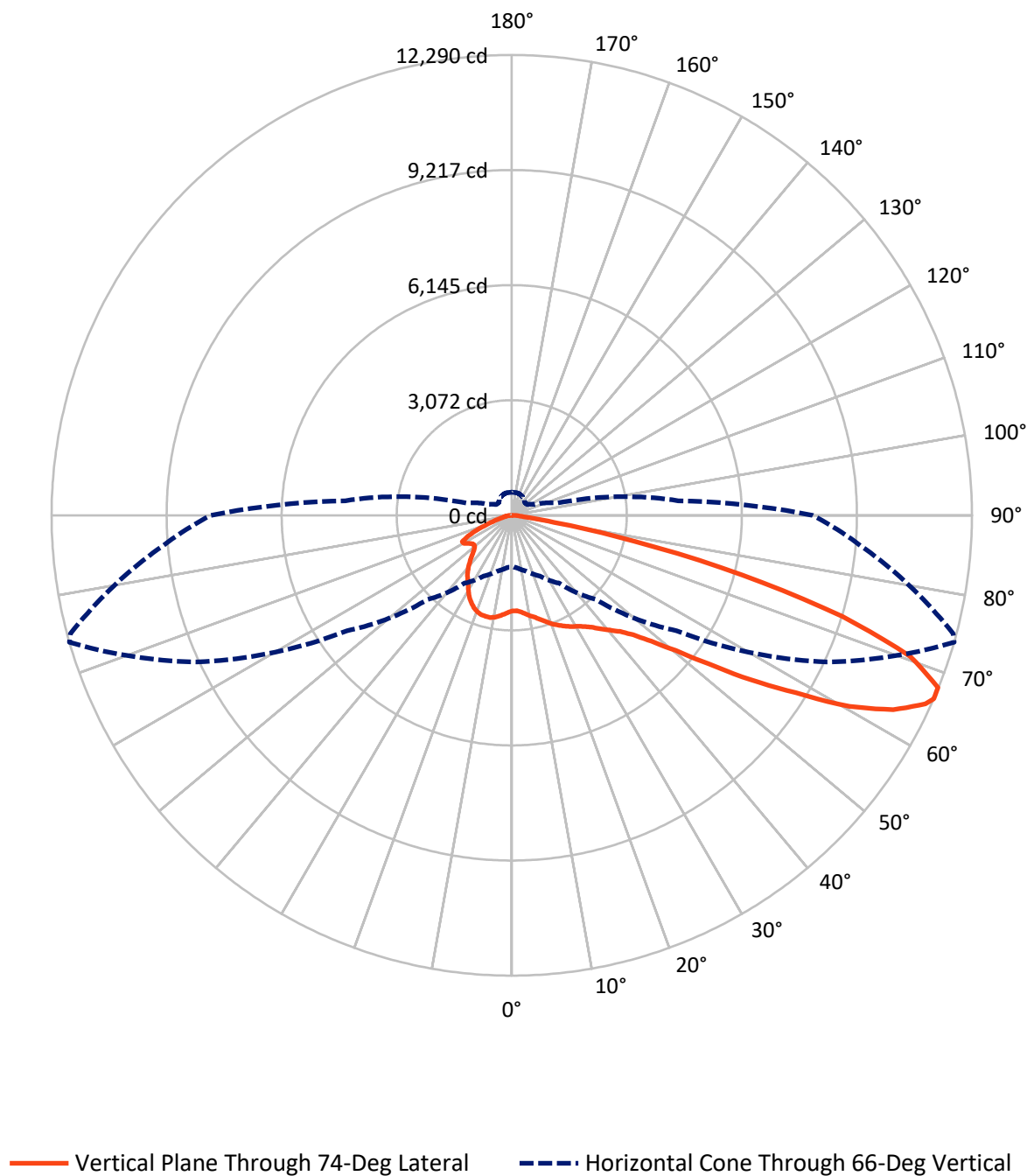


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type II - Short - N/A

REPORT NUMBER: P1210421
CATALOG NUMBER: ARCH3-120-722-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210421

CATALOG NUMBER: ARCH3-120-722-U-T2RE

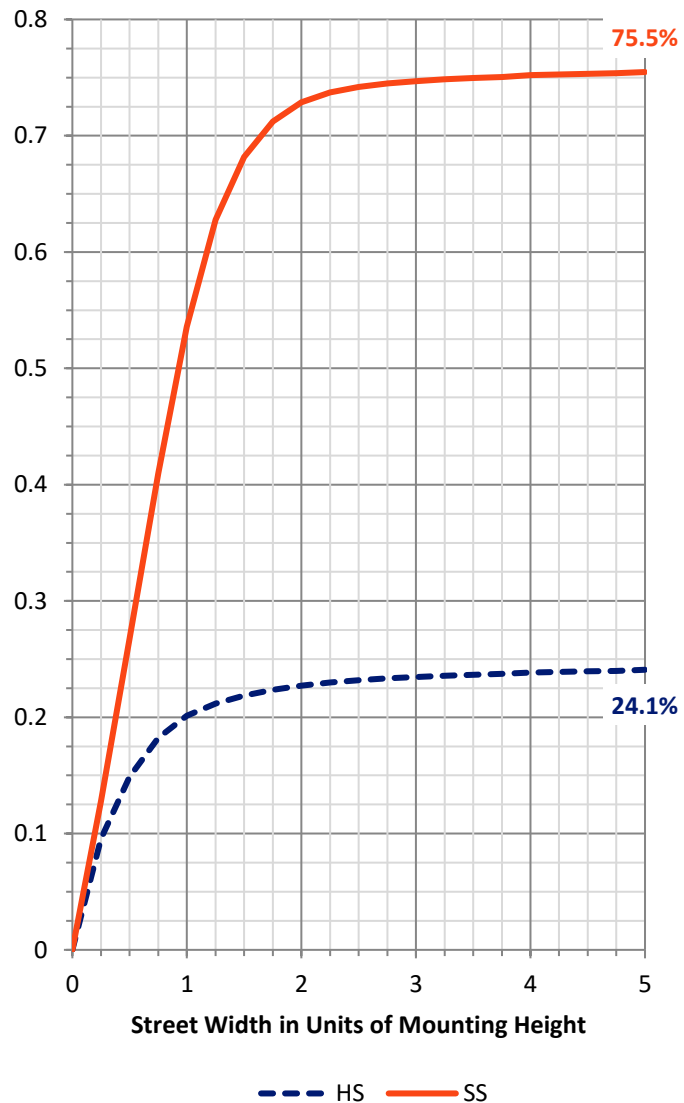
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3793.7	0.0	3793.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11784.3	0.0	11784.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	15578.0	0.0	15578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.6
10°-20°	749.1	4.8
20°-30°	1405.8	9.0
30°-40°	2162.4	13.9
40°-50°	2908.6	18.7
50°-60°	3439.8	22.1
60°-70°	3182.0	20.4
70°-80°	1338.6	8.6
80°-90°	148.1	1.0
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°	15578.0	100.0
0°-180°	15578.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210421

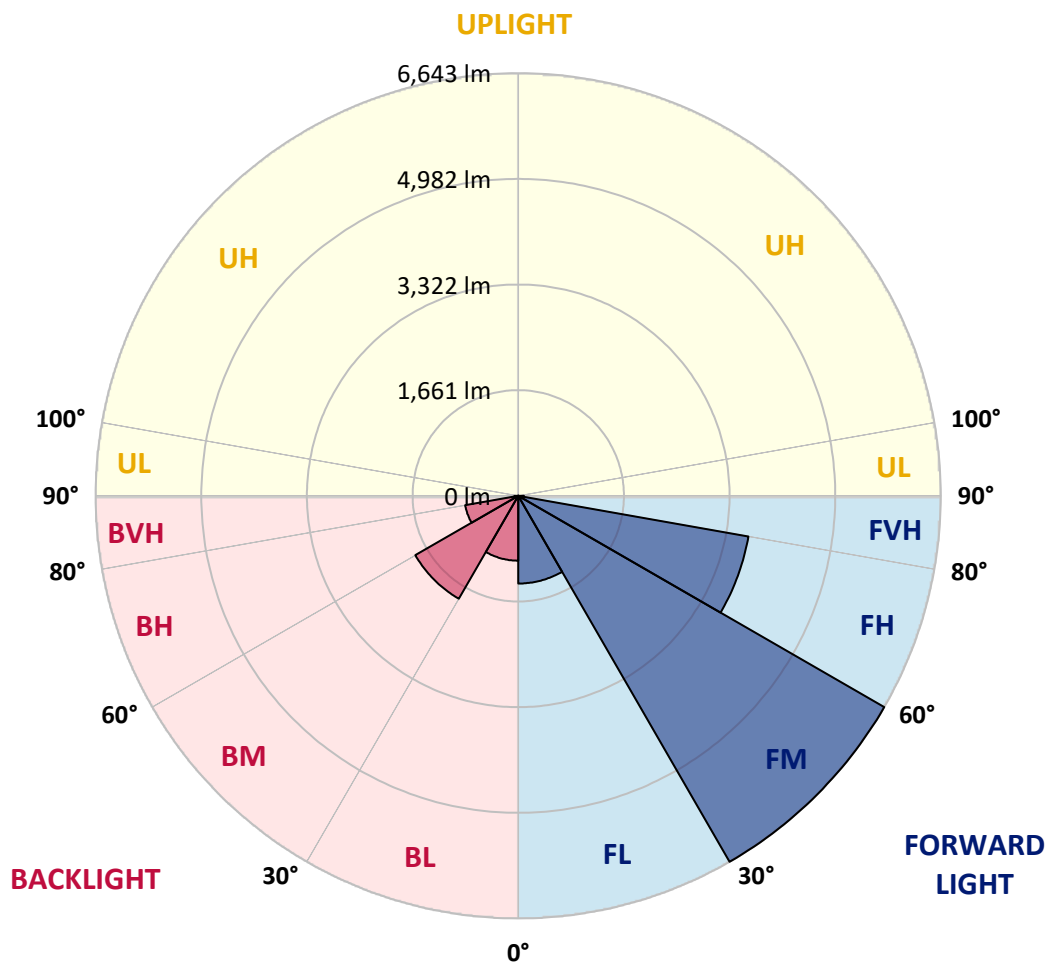
CATALOG NUMBER: ARCH3-120-722-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.8	8.9			
FM	(30°-60°)	6643.1	42.6			
FH	(60°-80°)	3673.7	23.6			G2/5000
FVH	(80°-90°)	88.6	0.6			G1/100
BL	(0°-30°)	1019.7	6.5	B3/2500		
BM	(30°-60°)	1867.6	12.0	B2/2500		
BH	(60°-80°)	846.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P1210421

CATALOG NUMBER: ARCH3-120-722-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8
2.5°	2545.7	2541.7	2549.7	2561.8	2567.8	2557.8	2553.8	2551.7	2551.7	2545.7	2555.8
5°	2425.5	2423.5	2441.5	2463.5	2505.6	2535.7	2575.8	2599.9	2591.8	2579.8	2587.8
7.5°	2269.1	2265.1	2287.2	2329.2	2387.4	2453.5	2551.7	2627.9	2658.0	2654.0	2652.0
10°	2329.2	2325.2	2323.2	2311.2	2331.3	2395.4	2497.6	2631.9	2734.2	2736.2	2738.2
12.5°	2537.7	2547.7	2537.7	2499.6	2455.5	2431.5	2491.6	2642.0	2798.3	2810.3	2860.4
15°	2822.4	2812.3	2792.3	2748.2	2680.0	2607.9	2563.8	2688.1	2890.5	2900.5	3010.8
17.5°	3072.9	3080.9	3068.9	3026.8	2946.6	2852.4	2718.1	2768.2	2988.7	3016.8	3171.1
20°	3345.5	3377.6	3361.6	3309.5	3243.3	3103.0	2934.6	2884.5	3097.0	3117.0	3337.5
22.5°	3660.2	3694.3	3664.3	3614.1	3560.0	3387.6	3171.1	3026.8	3187.2	3229.3	3497.9
25°	4037.1	4069.2	4041.1	3962.9	3894.8	3684.3	3425.7	3187.2	3275.4	3321.5	3628.2
27.5°	4335.8	4359.8	4385.9	4339.8	4235.5	4017.0	3690.3	3353.6	3363.6	3411.7	3748.4
30°	4602.4	4662.5	4684.6	4690.6	4602.4	4357.8	3960.9	3525.9	3439.7	3489.9	3868.7
32.5°	4967.2	5057.4	5021.3	5057.4	5005.3	4678.5	4241.6	3704.3	3538.0	3584.1	3983.0
35°	5500.4	5572.6	5478.3	5450.3	5366.1	5003.3	4512.2	3888.8	3668.3	3718.4	4091.2
37.5°	6073.7	6155.9	6019.6	5907.3	5746.9	5324.0	4744.7	4131.3	3848.7	3888.8	4191.4
40°	6574.8	6643.0	6524.7	6376.4	6107.8	5606.6	4945.1	4301.7	4029.1	4079.2	4307.7
42.5°	7037.9	7082.0	6949.7	6807.3	6448.5	5861.2	5161.6	4482.1	4239.5	4287.7	4401.9
45°	7506.9	7541.0	7356.6	7154.1	6733.2	6093.7	5400.2	4734.7	4548.2	4612.4	4554.3
47.5°	7591.1	7601.1	7569.0	7432.7	6957.7	6316.2	5694.8	5073.4	5019.3	5089.5	4816.8
50°	7007.8	7098.0	7296.4	7430.7	7047.9	6502.6	5989.5	5558.5	5668.8	5759.0	5362.1
52.5°	5875.2	5961.4	6420.5	6929.6	6831.4	6544.7	6306.2	6173.9	6584.8	6693.1	6103.7
55°	4680.5	4756.7	5241.8	5975.5	6131.8	6352.3	6645.0	6959.7	7753.5	7825.6	6917.6
57.5°	3854.7	3896.8	4243.6	4949.1	5199.7	5736.9	6827.4	7893.8	8942.1	9052.4	7625.2
60°	3161.1	3207.2	3465.8	4047.1	4379.9	4856.9	6683.1	8815.9	10361.3	10361.3	8533.2
62.5°	2379.4	2419.4	2660.0	3115.0	3674.3	4111.3	6222.0	9427.2	11431.7	11383.6	9190.7
65°	1633.7	1665.8	1840.1	2142.8	2646.0	3503.9	5592.6	9435.3	12141.3	12077.2	9471.3
66°	1371.1	1399.2	1547.5	1792.0	2215.0	3179.2	5370.1	9264.9	12289.7	12199.5	9353.1
67.5°	1082.4	1102.5	1200.7	1345.0	1623.7	2573.8	5019.3	8781.8	12275.6	12221.5	9052.4
70°	773.7	787.8	859.9	890.0	960.2	1489.4	3987.0	7691.3	11291.4	11307.5	7869.7
72.5°	599.3	621.4	665.5	671.5	655.5	791.8	2419.4	6416.5	9236.8	9230.8	5841.2
75°	483.1	495.1	517.2	529.2	525.2	511.2	1024.3	4786.8	6358.3	6432.5	3271.4
77.5°	380.9	378.9	398.9	414.9	427.0	400.9	469.1	2806.3	3333.5	3239.3	1228.8
80°	280.6	280.6	308.7	314.7	332.7	336.8	312.7	1082.4	1144.6	1040.3	318.7
82.5°	184.4	184.4	214.5	218.5	236.5	262.6	226.5	324.7	316.7	300.7	144.3
85°	100.2	96.2	106.2	120.3	130.3	154.3	136.3	162.4	166.4	164.4	96.2
87.5°	20.0	18.0	28.1	32.1	36.1	48.1	44.1	66.1	92.2	90.2	42.1
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: P1210421

CATALOG NUMBER: ARCH3-120-722-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8	2553.8
2.5°	2569.8	2567.8	2589.8	2615.9	2646.0	2664.0	2672.0	2686.1	2676.0	2680.0	2692.1
5°	2607.9	2613.9	2646.0	2680.0	2694.1	2684.0	2662.0	2654.0	2635.9	2631.9	2627.9
7.5°	2664.0	2674.0	2706.1	2714.1	2672.0	2601.9	2551.7	2523.7	2493.6	2485.6	2481.6
10°	2756.2	2762.2	2770.2	2688.1	2583.8	2489.6	2427.5	2401.4	2381.4	2365.3	2369.3
12.5°	2872.5	2868.5	2806.3	2635.9	2487.6	2391.4	2349.3	2333.3	2319.2	2309.2	2307.2
15°	3018.8	2990.7	2812.3	2563.8	2397.4	2317.2	2287.2	2281.1	2265.1	2265.1	2263.1
17.5°	3167.1	3095.0	2808.3	2487.6	2311.2	2267.1	2249.1	2245.1	2241.0	2239.0	2245.1
20°	3315.5	3187.2	2776.3	2393.4	2251.1	2225.0	2221.0	2223.0	2219.0	2225.0	2221.0
22.5°	3445.8	3247.3	2716.1	2293.2	2209.0	2207.0	2196.9	2201.0	2215.0	2217.0	2223.0
25°	3546.0	3269.4	2627.9	2201.0	2178.9	2174.9	2186.9	2203.0	2215.0	2217.0	2227.0
27.5°	3628.2	3257.3	2517.7	2128.8	2126.8	2148.8	2184.9	2190.9	2192.9	2192.9	2184.9
30°	3690.3	3231.3	2377.4	2048.6	2058.6	2112.8	2146.8	2146.8	2130.8	2126.8	2138.8
32.5°	3704.3	3197.2	2225.0	1966.4	1982.5	2046.6	2088.7	2074.7	2056.6	2056.6	2064.7
35°	3716.4	3151.1	2102.7	1854.2	1878.2	1954.4	1994.5	1966.4	1946.4	1940.4	1938.4
37.5°	3712.4	3133.1	1992.5	1711.9	1743.9	1818.1	1844.2	1818.1	1788.0	1774.0	1792.0
40°	3716.4	3121.0	1854.2	1555.5	1587.6	1631.7	1665.8	1645.7	1617.6	1581.6	1599.6
42.5°	3740.4	3137.1	1701.8	1403.2	1403.2	1427.2	1485.3	1471.3	1403.2	1389.1	1405.2
45°	3868.7	3223.3	1549.5	1250.8	1228.8	1244.8	1304.9	1244.8	1202.7	1202.7	1216.7
47.5°	4179.4	3383.6	1415.2	1116.5	1064.4	1096.5	1112.5	1056.4	1024.3	1016.3	1030.3
50°	4812.8	3704.3	1335.0	1006.3	942.1	966.2	956.2	954.1	922.1	926.1	934.1
52.5°	5775.0	4329.8	1311.0	952.1	872.0	878.0	868.0	872.0	866.0	886.0	892.0
55°	6823.4	4989.2	1341.0	960.2	823.9	781.8	785.8	805.8	829.9	861.9	868.0
57.5°	7607.1	5320.0	1419.2	1014.3	763.7	699.6	709.6	747.7	793.8	819.8	833.9
60°	8190.4	5279.9	1533.5	1028.3	691.6	625.4	643.4	699.6	739.7	761.7	775.7
62.5°	8380.9	5029.3	1561.5	926.1	597.3	555.3	599.3	657.5	675.5	699.6	709.6
65°	8224.5	4674.5	1357.1	751.7	525.2	503.1	567.3	611.4	635.4	647.5	649.5
66°	8040.1	4462.1	1246.8	683.5	499.1	487.1	555.3	591.3	615.4	613.4	615.4
67.5°	7635.2	4017.0	1068.4	587.3	461.0	463.0	535.2	559.3	567.3	561.3	561.3
70°	6258.1	2828.4	765.7	445.0	404.9	433.0	481.1	487.1	505.1	497.1	497.1
72.5°	3858.7	1389.1	513.2	340.8	360.8	404.9	402.9	423.0	465.0	477.1	485.1
75°	1896.3	563.3	338.8	288.7	322.7	338.8	334.8	384.9	445.0	497.1	515.2
77.5°	719.6	280.6	236.5	252.6	260.6	254.6	266.6	348.8	445.0	539.2	557.3
80°	222.5	194.4	186.4	208.5	196.4	186.4	200.5	288.7	376.8	408.9	408.9
82.5°	134.3	152.3	144.3	142.3	132.3	134.3	144.3	206.5	290.7	304.7	304.7
85°	94.2	100.2	82.2	78.2	76.2	74.2	74.2	120.3	172.4	170.4	176.4
87.5°	36.1	40.1	30.1	30.1	28.1	20.0	16.0	20.0	20.0	14.0	10.0
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)