

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: P1210043

Luminaire Tested: **ARCH1-60-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

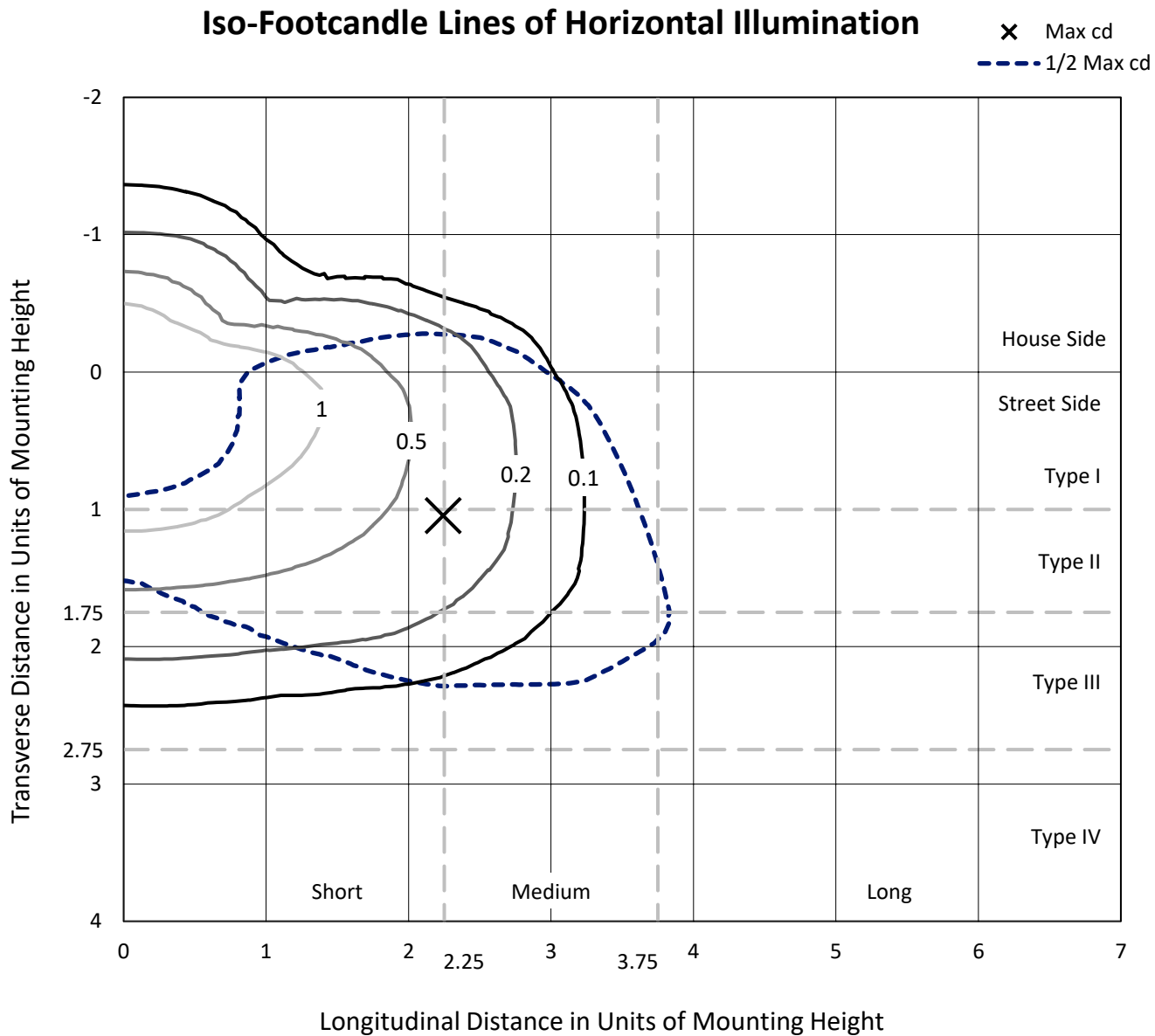
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6906 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 60
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



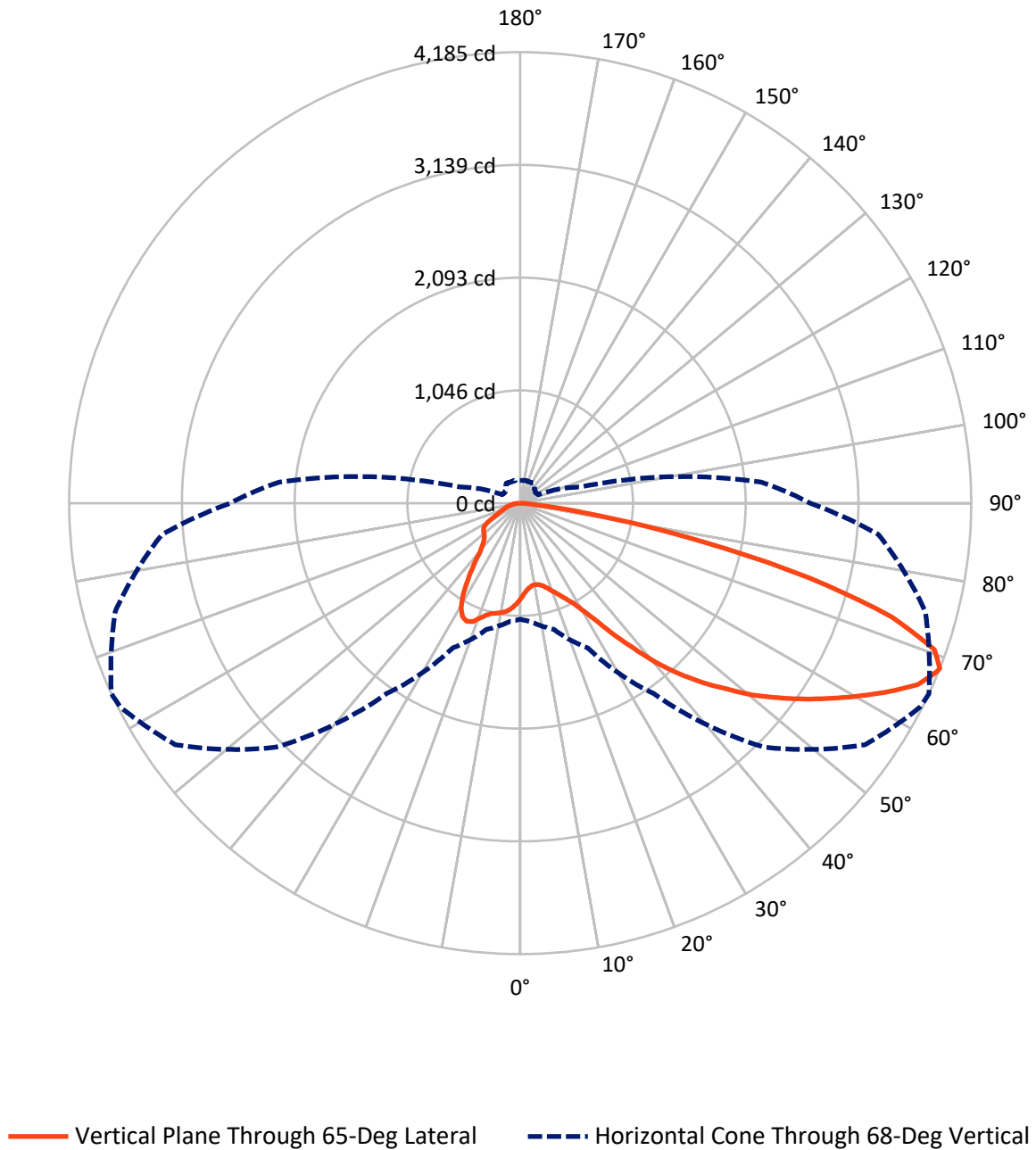
REPORT NUMBER: P1210043
CATALOG NUMBER: ARCH1-60-727-U-T3RE



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

REPORT NUMBER: P1210043
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Luminous Intensity Polar Plot



REPORT NUMBER: P1210043

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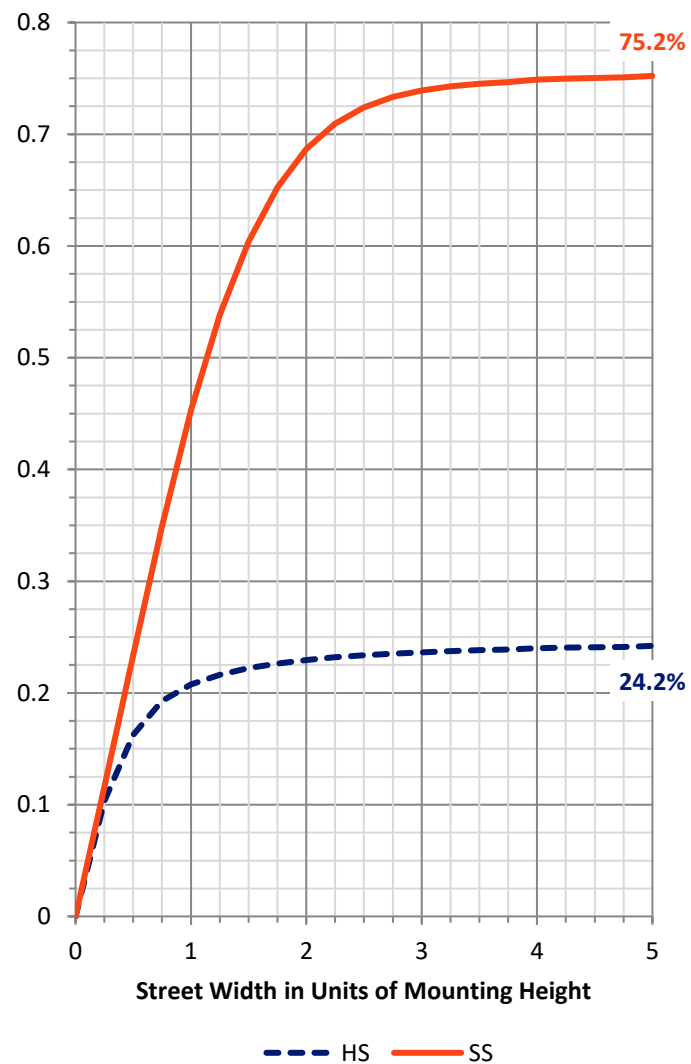
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.1	0.0	1693.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5212.9	0.0	5212.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	6906.0	0.0	6906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.2
10°-20°	274.6	4.0
20°-30°	497.0	7.2
30°-40°	781.9	11.3
40°-50°	1164.5	16.9
50°-60°	1527.6	22.1
60°-70°	1670.5	24.2
70°-80°	826.6	12.0
80°-90°	78.9	1.1
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°	6906.0	100.0
0°-180°	6906.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210043

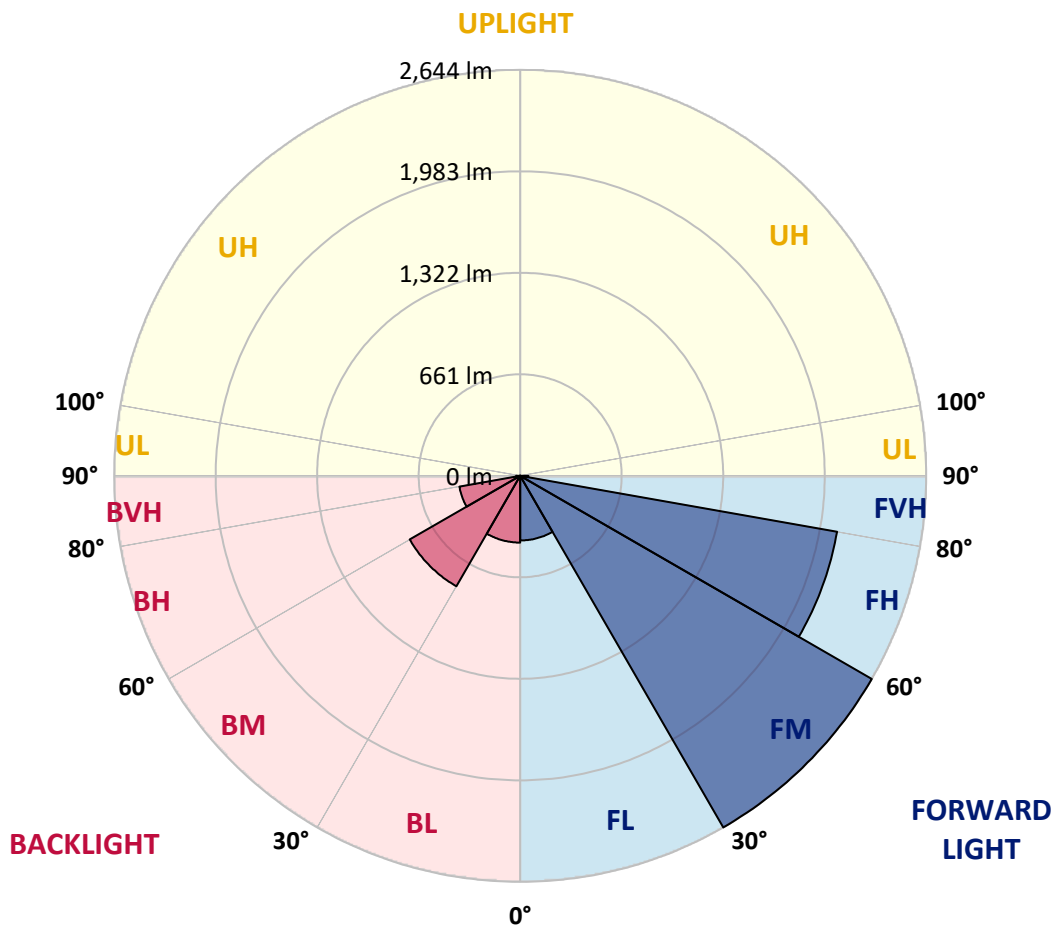
CATALOG NUMBER: ARCH1-60-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.0	6.1			
FM	(30°-60°)	2643.5	38.3			
FH	(60°-80°)	2095.3	30.3			G2/5000
FVH	(80°-90°)	53.0	0.8			G1/100
BL	(0°-30°)	435.0	6.3	B1/500		
BM	(30°-60°)	830.5	12.0	B1/1000		
BH	(60°-80°)	401.9	5.8	B1/500		G1/500
BVH	(80°-90°)	25.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P1210043

CATALOG NUMBER: ARCH1-60-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5
2.5°	770.3	768.5	773.0	777.4	787.2	798.8	814.8	828.2	830.0	854.9	874.5
5°	724.9	722.2	726.7	732.0	736.5	750.7	767.6	787.2	795.2	831.7	873.6
7.5°	729.3	728.4	730.2	728.4	728.4	734.7	746.3	765.8	774.8	818.4	878.1
10°	755.2	756.9	757.8	752.5	747.1	744.5	748.0	761.4	767.6	819.3	897.6
12.5°	797.9	800.6	801.5	791.7	784.5	773.0	766.7	772.1	776.5	828.2	925.2
15°	855.8	857.6	851.3	845.1	827.3	813.0	797.9	793.5	795.2	846.9	956.4
17.5°	923.5	920.8	920.8	905.7	882.5	860.2	835.3	831.7	831.7	877.2	1000.9
20°	997.4	1000.1	992.0	971.6	948.4	913.7	888.7	872.7	874.5	911.9	1055.3
22.5°	1104.2	1108.7	1087.3	1057.9	1022.3	982.2	946.6	920.8	921.7	957.3	1111.4
25°	1219.1	1220.9	1207.5	1168.4	1120.3	1063.3	1016.1	983.1	982.2	1008.1	1183.5
27.5°	1336.7	1344.7	1318.0	1280.6	1236.0	1164.8	1102.5	1057.9	1050.8	1085.5	1273.4
30°	1457.8	1467.6	1441.7	1405.2	1350.0	1289.5	1215.6	1163.9	1159.5	1205.8	1393.7
32.5°	1579.8	1582.4	1562.0	1531.7	1481.8	1424.8	1365.2	1308.2	1303.7	1379.4	1549.5
35°	1679.5	1687.5	1673.3	1666.2	1629.6	1577.1	1519.2	1486.3	1497.9	1594.9	1751.6
37.5°	1799.7	1807.8	1791.7	1789.9	1778.4	1732.9	1692.9	1695.5	1707.1	1838.9	1964.5
40°	1973.4	1982.3	1941.3	1923.5	1923.5	1879.0	1865.6	1928.9	1944.0	2079.4	2186.2
42.5°	2120.3	2134.6	2110.5	2098.9	2064.2	2033.1	2049.1	2138.1	2164.0	2309.1	2379.5
45°	2191.6	2202.2	2230.7	2264.6	2230.7	2176.4	2237.0	2337.6	2374.1	2521.1	2572.7
47.5°	2229.9	2239.7	2272.6	2363.4	2386.6	2341.2	2426.7	2552.2	2577.2	2731.2	2757.0
50°	2235.2	2266.4	2309.1	2399.9	2505.9	2512.1	2617.2	2770.4	2799.8	2937.8	2919.1
52.5°	2191.6	2204.0	2292.2	2445.4	2562.9	2669.8	2824.7	2979.7	3001.0	3131.9	3062.5
55°	2120.3	2138.1	2226.3	2434.7	2618.1	2819.4	3035.8	3185.4	3209.4	3320.7	3195.2
57.5°	2056.2	2065.1	2159.5	2403.5	2673.3	2969.0	3223.7	3400.0	3416.0	3486.4	3293.1
60°	1985.0	1994.8	2089.2	2336.7	2714.3	3082.1	3419.6	3616.4	3630.6	3660.9	3407.1
62.5°	1800.6	1826.5	1944.9	2226.3	2703.6	3211.2	3628.9	3830.1	3847.9	3815.0	3497.1
65°	1462.2	1498.7	1643.9	1976.1	2603.9	3294.9	3799.8	4026.9	4057.2	3930.7	3521.1
67.5°	1135.4	1161.2	1277.9	1568.2	2253.9	3253.1	3910.3	4162.3	4171.2	3912.0	3387.5
68°	1076.6	1102.5	1213.8	1482.7	2156.8	3203.2	3907.6	4165.8	4185.4	3891.6	3335.9
70°	823.7	853.1	959.1	1174.6	1738.3	2886.2	3744.6	4080.4	4077.7	3644.0	3015.3
72.5°	514.7	531.6	604.7	740.9	1149.7	2196.0	3178.3	3598.6	3605.7	2970.8	2312.7
75°	326.8	326.8	323.3	358.9	589.5	1251.2	2362.5	2770.4	2775.7	2080.2	1457.8
77.5°	284.1	276.1	237.8	201.3	235.1	486.2	1398.1	1789.0	1759.7	1120.3	691.9
80°	239.5	226.2	195.0	162.1	151.4	152.3	537.0	908.3	869.1	403.4	229.8
82.5°	172.8	161.2	146.9	127.3	116.7	90.8	112.2	262.7	256.5	116.7	74.8
85°	93.5	84.6	82.8	83.7	70.4	56.1	47.2	57.9	57.9	50.8	42.7
87.5°	32.9	24.0	28.5	32.1	27.6	23.2	18.7	22.3	23.2	22.3	20.5
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: P1210043

CATALOG NUMBER: ARCH1-60-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5	882.5
2.5°	886.1	895.0	916.3	935.0	948.4	960.0	966.2	968.9	975.1	976.0	974.2
5°	893.2	916.3	948.4	976.0	991.1	997.4	999.2	1000.1	997.4	999.2	997.4
7.5°	911.9	941.3	986.7	1010.7	1013.4	1003.6	1004.5	1000.9	1004.5	1008.1	1008.1
10°	940.4	977.8	1020.5	1029.4	1017.9	1012.5	1023.2	1044.6	1051.7	1061.5	1061.5
12.5°	977.8	1022.3	1052.6	1044.6	1033.9	1051.7	1082.9	1104.2	1111.4	1114.9	1112.3
15°	1020.5	1068.6	1083.8	1057.0	1076.6	1114.9	1125.6	1113.1	1095.3	1087.3	1091.8
17.5°	1074.9	1114.9	1106.0	1088.2	1132.7	1138.1	1103.4	1063.3	1034.8	1024.1	1031.2
20°	1131.8	1166.6	1125.6	1133.6	1161.2	1104.2	1038.3	986.7	961.8	957.3	964.4
22.5°	1192.4	1214.7	1145.2	1186.2	1145.2	1029.4	950.2	923.5	917.2	924.4	930.6
25°	1261.0	1258.3	1179.0	1202.2	1085.5	937.7	890.5	888.7	888.7	893.2	902.1
27.5°	1338.4	1296.6	1212.9	1180.8	982.2	862.0	853.1	854.0	851.3	852.2	856.7
30°	1428.4	1348.2	1250.3	1110.5	866.5	805.0	801.5	798.8	792.6	790.8	792.6
32.5°	1541.5	1402.6	1288.6	994.7	765.0	746.3	744.5	730.2	715.1	713.3	719.5
35°	1684.9	1501.4	1308.2	849.6	681.2	680.4	674.1	651.9	632.3	632.3	627.8
37.5°	1848.7	1628.8	1316.2	708.0	611.8	616.2	598.4	569.9	554.8	545.9	548.6
40°	2016.1	1773.9	1315.3	584.2	551.2	552.1	538.8	504.0	466.6	444.4	449.7
42.5°	2177.3	1905.7	1292.1	518.3	502.3	499.6	488.9	441.7	410.5	392.7	393.6
45°	2306.4	2042.0	1256.5	479.1	457.7	462.2	438.1	409.6	381.1	365.1	364.2
47.5°	2435.6	2145.3	1199.5	455.1	424.8	416.8	407.0	387.4	366.0	348.2	349.1
50°	2553.1	2233.4	1146.1	439.0	394.5	374.0	375.8	364.2	345.5	329.5	328.6
52.5°	2635.9	2291.3	1116.7	430.1	358.0	335.7	342.0	335.7	317.9	306.3	305.4
55°	2718.7	2335.8	1126.5	418.5	317.9	300.1	310.8	309.0	299.2	295.7	296.5
57.5°	2785.5	2369.7	1161.2	397.2	279.6	268.9	286.7	281.4	274.3	275.2	275.2
60°	2850.5	2413.3	1202.2	348.2	246.7	247.6	264.5	254.7	250.2	258.3	259.1
62.5°	2918.2	2460.5	1168.4	277.0	218.2	224.4	244.0	236.0	237.8	249.3	252.9
65°	2910.2	2456.0	952.0	227.1	193.2	205.7	235.1	232.4	233.3	237.8	239.5
67.5°	2746.4	2299.3	654.5	193.2	175.4	190.6	228.0	217.3	218.2	215.5	216.4
68°	2691.1	2244.1	577.1	187.9	171.9	187.0	224.4	214.6	215.5	212.8	211.9
70°	2390.1	1921.7	365.1	165.6	159.4	177.2	206.6	203.0	202.1	200.4	200.4
72.5°	1822.0	1418.6	192.4	143.4	145.2	162.1	184.3	191.5	187.0	187.9	193.2
75°	1206.7	853.1	133.6	122.9	127.3	138.9	163.9	178.1	173.7	176.3	173.7
77.5°	638.5	459.5	106.9	104.2	104.2	112.2	135.4	157.6	157.6	155.8	153.2
80°	209.3	162.1	85.5	81.9	83.7	88.2	108.6	129.1	131.8	128.2	126.5
82.5°	70.4	74.8	64.1	59.7	61.4	65.0	81.9	98.8	99.7	92.6	90.8
85°	43.6	49.9	40.1	39.2	39.2	40.1	49.9	54.3	49.9	44.5	46.3
87.5°	20.5	24.9	18.7	16.0	13.4	11.6	8.9	3.6	3.6	1.8	1.8
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)