

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: P1210363

Luminaire Tested: **ARCH3-100-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210363
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: ARCH3-100-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14787 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.6
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

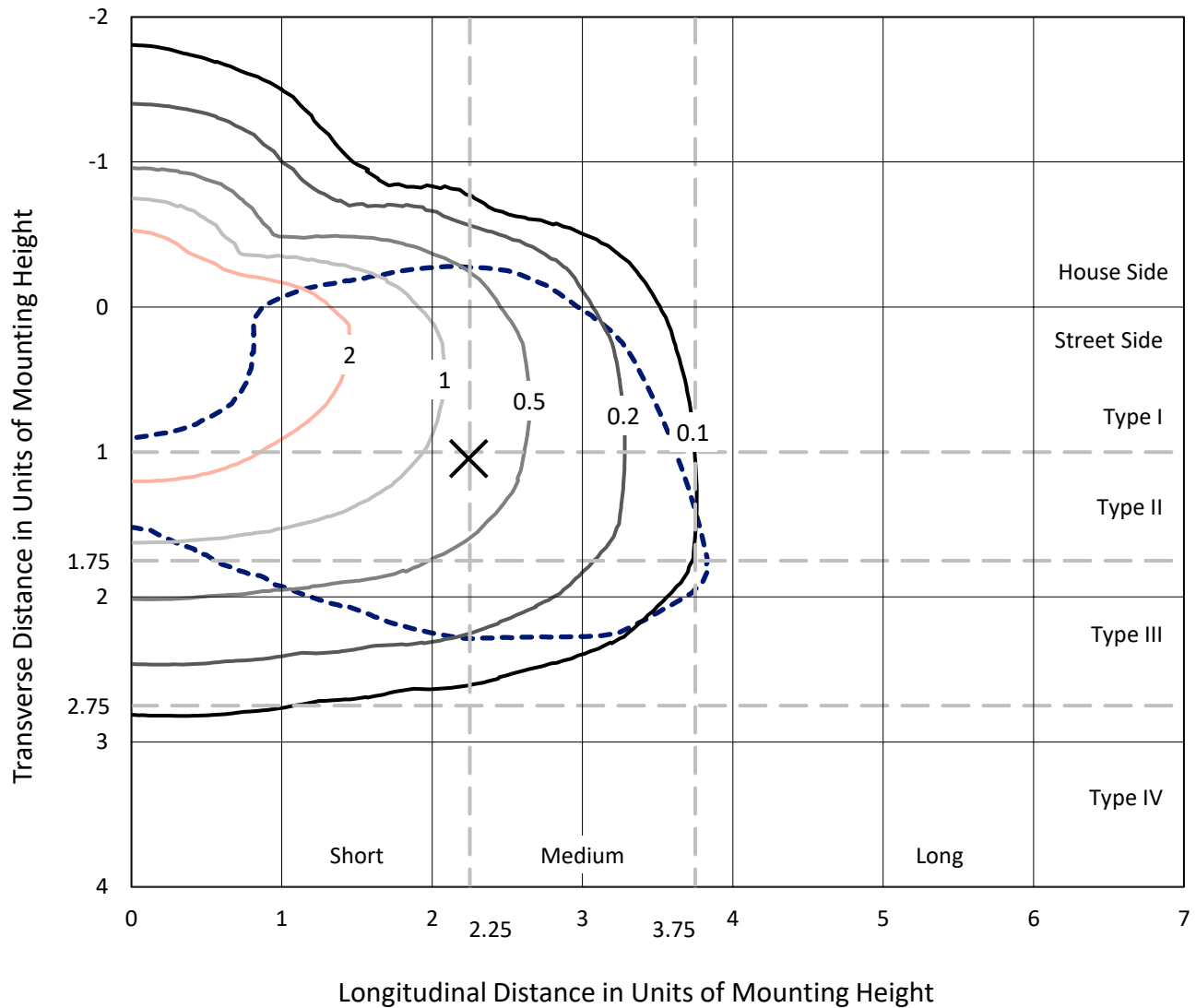


REPORT NUMBER: P1210363

CATALOG NUMBER: ARCH3-100-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

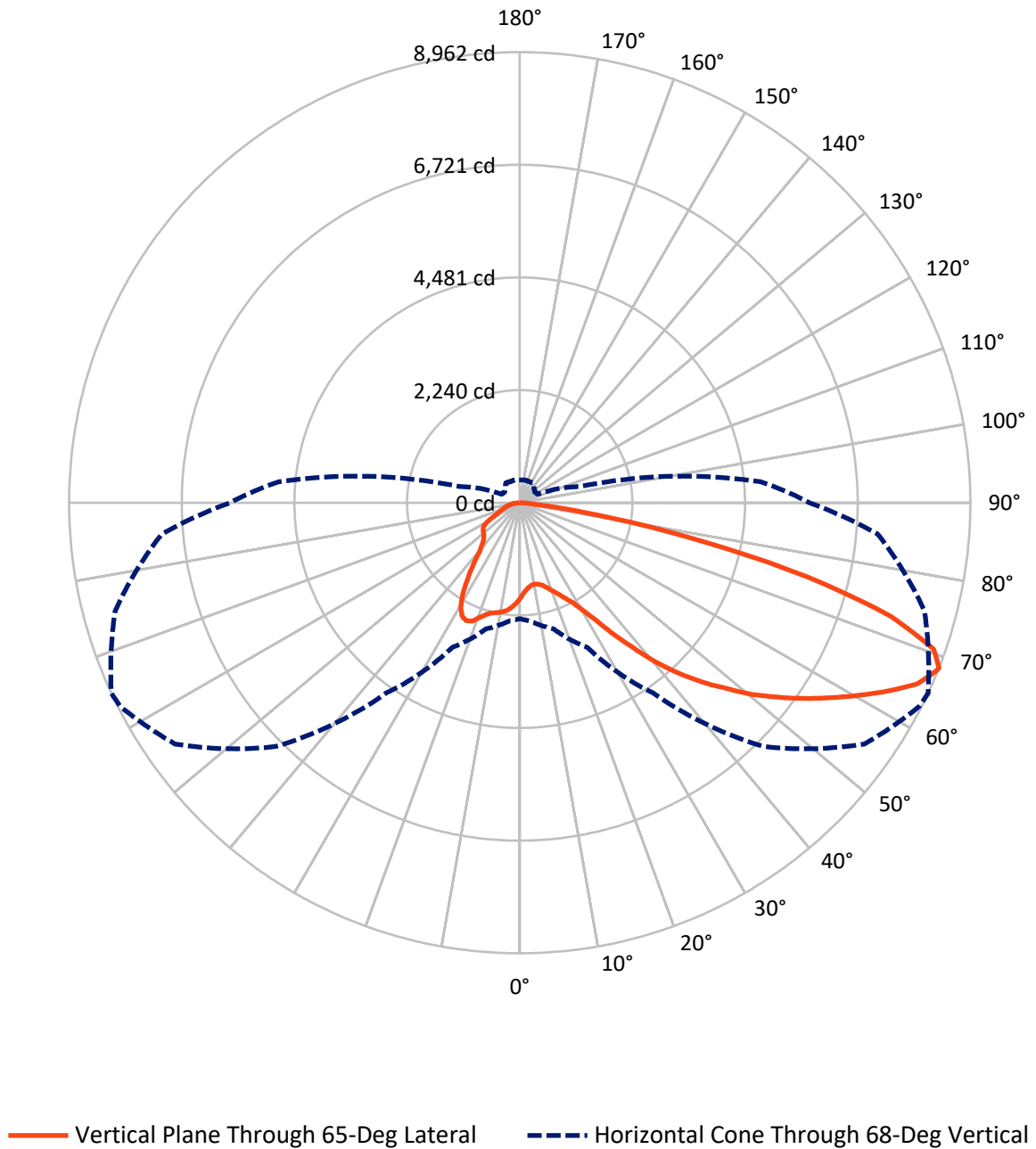


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

REPORT NUMBER: P1210363

CATALOG NUMBER: ARCH3-100-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210363

CATALOG NUMBER: ARCH3-100-727-U-T3RE

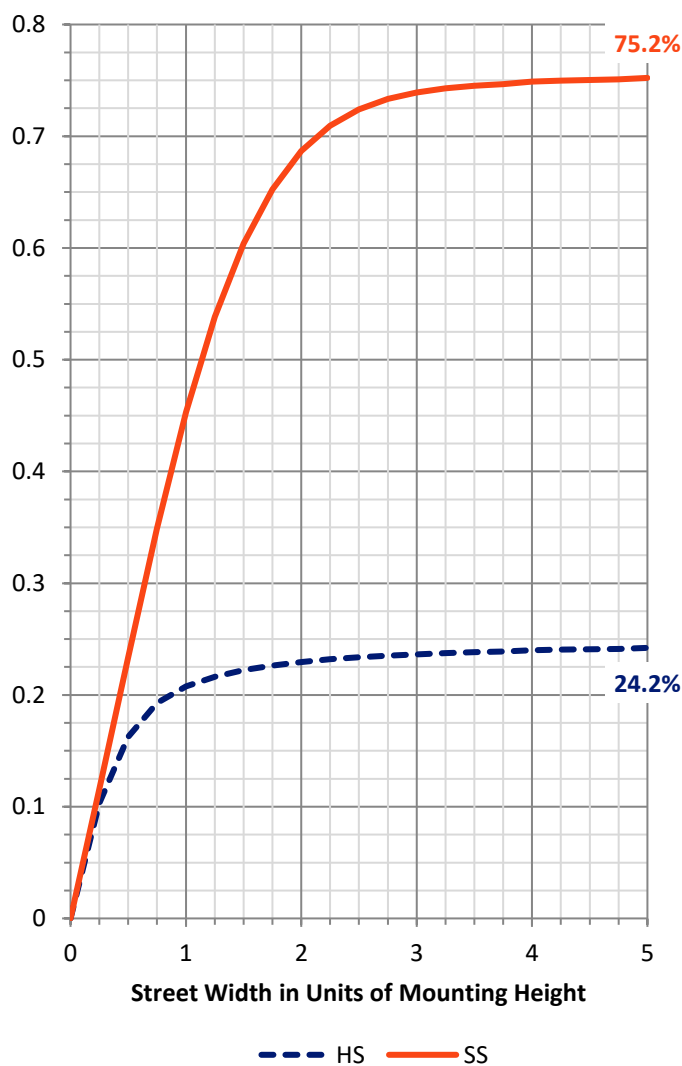
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3625.3	0.0	3625.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11161.7	0.0	11161.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	14787.0	0.0	14787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.2
10°-20°	588.0	4.0
20°-30°	1064.2	7.2
30°-40°	1674.1	11.3
40°-50°	2493.4	16.9
50°-60°	3270.9	22.1
60°-70°	3576.9	24.2
70°-80°	1770.0	12.0
80°-90°	168.8	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°	14787.0	100.0
0°-180°	14787.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210363

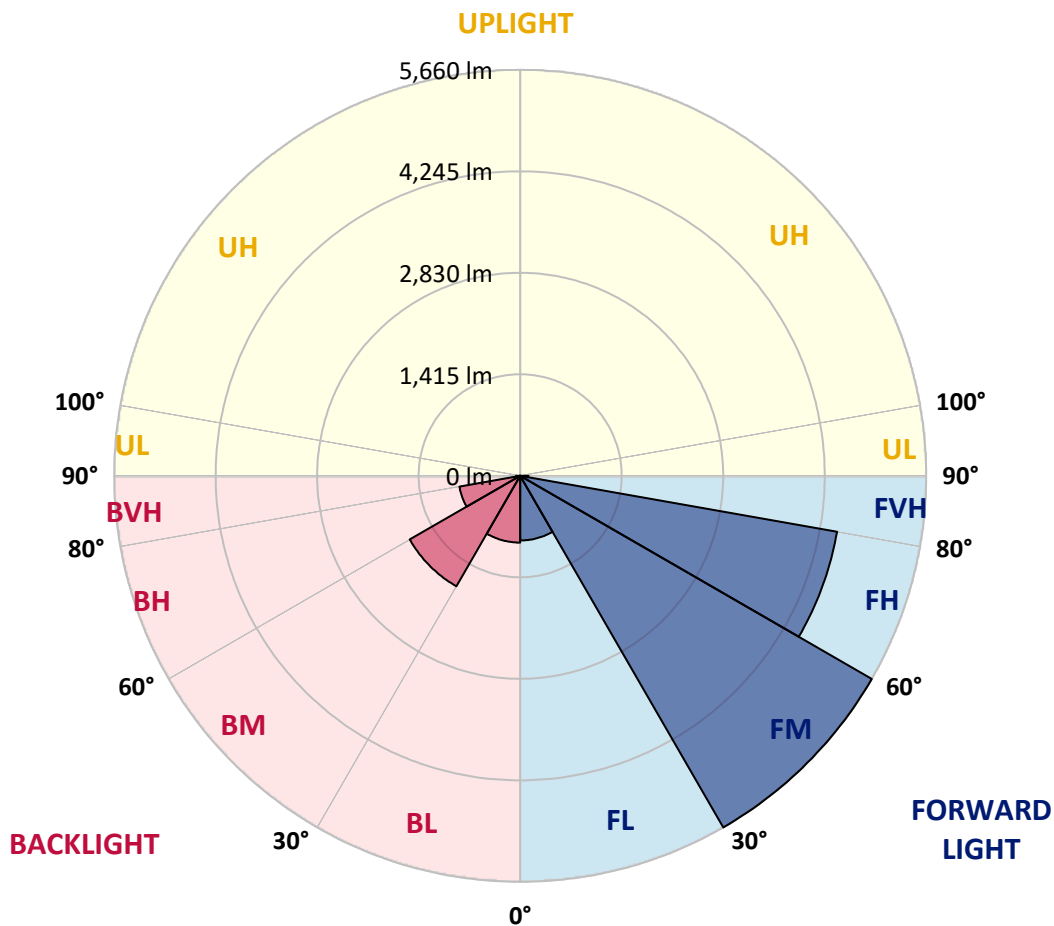
CATALOG NUMBER: ARCH3-100-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.4	6.1			
FM	(30°-60°)	5660.3	38.3			
FH	(60°-80°)	4486.4	30.3			G2/5000
FVH	(80°-90°)	113.6	0.8			G2/225
BL	(0°-30°)	931.4	6.3	B2/1000		
BM	(30°-60°)	1778.2	12.0	B2/2500		
BH	(60°-80°)	860.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	55.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P1210363

CATALOG NUMBER: ARCH3-100-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1649.3	1645.5	1655.1	1664.6	1685.6	1710.4	1744.7	1773.3	1777.1	1830.5	1872.4
5°	1552.1	1546.4	1555.9	1567.4	1576.9	1607.4	1643.6	1685.6	1702.7	1780.9	1870.5
7.5°	1561.6	1559.7	1563.5	1559.7	1559.7	1573.1	1597.9	1639.8	1658.9	1752.3	1880.1
10°	1616.9	1620.7	1622.7	1611.2	1599.8	1594.1	1601.7	1630.3	1643.6	1754.2	1922.0
12.5°	1708.5	1714.2	1716.1	1695.1	1679.9	1655.1	1641.7	1653.2	1662.7	1773.3	1981.1
15°	1832.4	1836.2	1822.9	1809.5	1771.4	1740.9	1708.5	1698.9	1702.7	1813.3	2047.9
17.5°	1977.3	1971.6	1971.6	1939.2	1889.6	1841.9	1788.5	1780.9	1780.9	1878.2	2143.2
20°	2135.6	2141.3	2124.1	2080.3	2030.7	1956.3	1902.9	1868.6	1872.4	1952.5	2259.5
22.5°	2364.4	2373.9	2328.2	2265.2	2189.0	2103.2	2026.9	1971.6	1973.5	2049.8	2379.6
25°	2610.4	2614.2	2585.6	2501.7	2398.7	2276.7	2175.6	2105.1	2103.2	2158.5	2534.1
27.5°	2862.0	2879.2	2822.0	2741.9	2646.6	2494.0	2360.6	2265.2	2250.0	2324.3	2726.7
30°	3121.4	3142.3	3087.0	3008.9	2890.6	2761.0	2602.7	2492.1	2482.6	2581.8	2984.1
32.5°	3382.6	3388.3	3344.5	3279.6	3172.8	3050.8	2923.1	2801.0	2791.5	2953.6	3317.8
35°	3596.1	3613.3	3582.8	3567.5	3489.4	3376.9	3252.9	3182.4	3207.2	3415.0	3750.6
37.5°	3853.6	3870.7	3836.4	3832.6	3807.8	3710.6	3624.8	3630.5	3655.3	3937.5	4206.3
40°	4225.4	4244.4	4156.7	4118.6	4118.6	4023.3	3994.7	4130.0	4162.5	4452.3	4681.1
42.5°	4540.0	4570.5	4519.0	4494.2	4419.9	4353.1	4387.5	4578.1	4633.4	4944.2	5094.9
45°	4692.5	4715.4	4776.4	4848.9	4776.4	4660.1	4789.8	5005.2	5083.4	5398.0	5508.6
47.5°	4774.5	4795.5	4866.1	5060.5	5110.1	5012.9	5195.9	5464.8	5518.2	5848.0	5903.3
50°	4786.0	4852.7	4944.2	5138.7	5365.6	5379.0	5604.0	5931.9	5994.9	6290.4	6250.4
52.5°	4692.5	4719.2	4908.0	5236.0	5487.7	5716.5	6048.2	6380.0	6425.8	6706.1	6557.3
55°	4540.0	4578.1	4766.9	5213.1	5605.9	6036.8	6500.1	6820.5	6872.0	7110.3	6841.5
57.5°	4402.7	4421.8	4623.9	5146.3	5724.1	6357.1	6902.5	7280.0	7314.3	7465.0	7051.2
60°	4250.2	4271.1	4473.3	5003.3	5811.8	6599.3	7322.0	7743.4	7773.9	7838.7	7295.3
62.5°	3855.5	3910.8	4164.4	4766.9	5788.9	6875.8	7770.0	8201.0	8239.1	8168.6	7487.8
65°	3130.9	3209.1	3519.9	4231.1	5575.4	7055.0	8136.1	8622.4	8687.2	8416.4	7539.3
67.5°	2431.1	2486.4	2736.2	3357.8	4826.0	6965.4	8372.6	8912.2	8931.3	8376.4	7253.3
68°	2305.3	2360.6	2598.9	3174.8	4618.2	6858.6	8366.9	8919.8	8961.8	8332.5	7142.7
70°	1763.8	1826.7	2053.6	2515.0	3722.0	6179.8	8017.9	8736.8	8731.1	7802.5	6456.3
72.5°	1102.1	1138.3	1294.7	1586.4	2461.6	4702.1	6805.2	7705.2	7720.5	6361.0	4951.9
75°	699.8	699.8	692.2	768.4	1262.3	2679.0	5058.6	5931.9	5943.4	4454.2	3121.4
77.5°	608.3	591.1	509.1	430.9	503.4	1041.1	2993.6	3830.7	3767.8	2398.7	1481.6
80°	512.9	484.3	417.6	347.0	324.1	326.1	1149.8	1944.9	1861.0	863.8	491.9
82.5°	369.9	345.1	314.6	272.7	249.8	194.5	240.3	562.5	549.1	249.8	160.2
85°	200.2	181.1	177.3	179.2	150.6	120.1	101.1	123.9	123.9	108.7	91.5
87.5°	70.6	51.5	61.0	68.6	59.1	49.6	40.0	47.7	49.6	47.7	43.9
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: P1210363

CATALOG NUMBER: ARCH3-100-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6	1889.6
2.5°	1897.2	1916.3	1962.1	2002.1	2030.7	2055.5	2068.8	2074.6	2087.9	2089.8	2086.0
5°	1912.5	1962.1	2030.7	2089.8	2122.2	2135.6	2139.4	2141.3	2135.6	2139.4	2135.6
7.5°	1952.5	2015.4	2112.7	2164.2	2169.9	2148.9	2150.8	2143.2	2150.8	2158.5	2158.5
10°	2013.5	2093.6	2185.1	2204.2	2179.4	2168.0	2190.9	2236.6	2251.9	2272.9	2272.9
12.5°	2093.6	2189.0	2253.8	2236.6	2213.7	2251.9	2318.6	2364.4	2379.6	2387.3	2381.5
15°	2185.1	2288.1	2320.5	2263.3	2305.3	2387.3	2410.1	2383.4	2345.3	2328.2	2337.7
17.5°	2301.5	2387.3	2368.2	2330.1	2425.4	2436.8	2362.5	2276.7	2215.7	2192.8	2208.0
20°	2423.5	2497.9	2410.1	2427.3	2486.4	2364.4	2223.3	2112.7	2059.3	2049.8	2065.0
22.5°	2553.2	2600.8	2452.1	2539.8	2452.1	2204.2	2034.5	1977.3	1964.0	1979.2	1992.6
25°	2700.0	2694.3	2524.5	2574.1	2324.3	2007.8	1906.8	1902.9	1902.9	1912.5	1931.5
27.5°	2865.9	2776.2	2597.0	2528.4	2103.2	1845.7	1826.7	1828.6	1822.9	1824.8	1834.3
30°	3058.4	2886.8	2677.1	2377.7	1855.3	1723.7	1716.1	1710.4	1697.0	1693.2	1697.0
32.5°	3300.6	3003.1	2759.1	2129.9	1637.9	1597.9	1594.1	1563.5	1531.1	1527.3	1540.7
35°	3607.6	3214.8	2801.0	1819.0	1458.7	1456.8	1443.4	1395.7	1353.8	1353.8	1344.3
37.5°	3958.4	3487.5	2818.2	1515.9	1309.9	1319.5	1281.3	1220.3	1187.9	1168.8	1174.6
40°	4316.9	3798.3	2816.3	1250.8	1180.3	1182.2	1153.6	1079.2	999.1	951.5	962.9
42.5°	4662.0	4080.5	2766.7	1109.7	1075.4	1069.7	1046.8	945.8	879.0	840.9	842.8
45°	4938.5	4372.2	2690.4	1025.8	980.1	989.6	938.1	877.1	816.1	781.8	779.9
47.5°	5215.0	4593.4	2568.4	974.4	909.5	892.4	871.4	829.4	783.7	745.5	747.4
50°	5466.7	4782.2	2454.0	940.0	844.7	800.8	804.7	779.9	739.8	705.5	703.6
52.5°	5644.0	4906.1	2391.1	921.0	766.5	718.8	732.2	718.8	680.7	655.9	654.0
55°	5821.3	5001.4	2412.1	896.2	680.7	642.6	665.5	661.6	640.7	633.0	635.0
57.5°	5964.3	5073.9	2486.4	850.4	598.7	575.8	614.0	602.5	587.3	589.2	589.2
60°	6103.5	5167.3	2574.1	745.5	528.2	530.1	566.3	545.3	535.8	553.0	554.9
62.5°	6248.5	5268.4	2501.7	593.0	467.2	480.5	522.5	505.3	509.1	533.9	541.5
65°	6231.3	5258.8	2038.3	486.2	413.8	440.5	503.4	497.7	499.6	509.1	512.9
67.5°	5880.4	4923.3	1401.5	413.8	375.6	408.0	488.1	465.2	467.2	461.4	463.3
68°	5762.2	4805.0	1235.6	402.3	368.0	400.4	480.5	459.5	461.4	455.7	453.8
70°	5117.7	4114.8	781.8	354.7	341.3	379.4	442.4	434.7	432.8	429.0	429.0
72.5°	3901.2	3037.5	411.9	307.0	310.8	347.0	394.7	410.0	400.4	402.3	413.8
75°	2583.7	1826.7	286.0	263.1	272.7	297.5	350.8	381.4	371.8	377.5	371.8
77.5°	1367.1	983.9	228.8	223.1	223.1	240.3	289.8	337.5	337.5	333.7	328.0
80°	448.1	347.0	183.0	175.4	179.2	188.8	232.6	276.5	282.2	274.6	270.8
82.5°	150.6	160.2	137.3	127.8	131.6	139.2	175.4	211.7	213.6	198.3	194.5
85°	93.4	106.8	85.8	83.9	83.9	85.8	106.8	116.3	106.8	95.3	99.2
87.5°	43.9	53.4	40.0	34.3	28.6	24.8	19.1	7.6	7.6	3.8	3.8
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)