

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: P836820

Luminaire Tested: **ARCH3-80-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

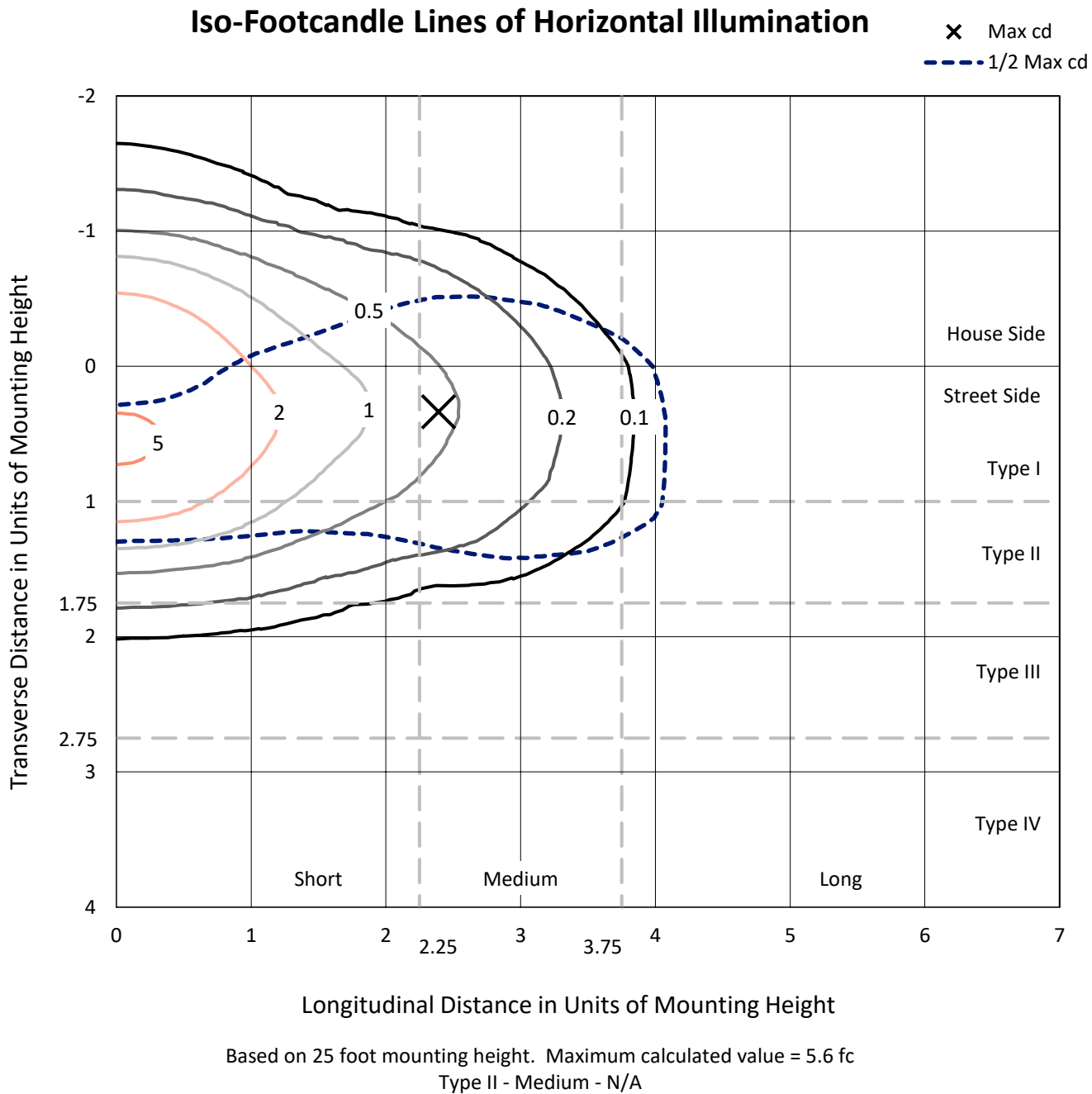
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12716 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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

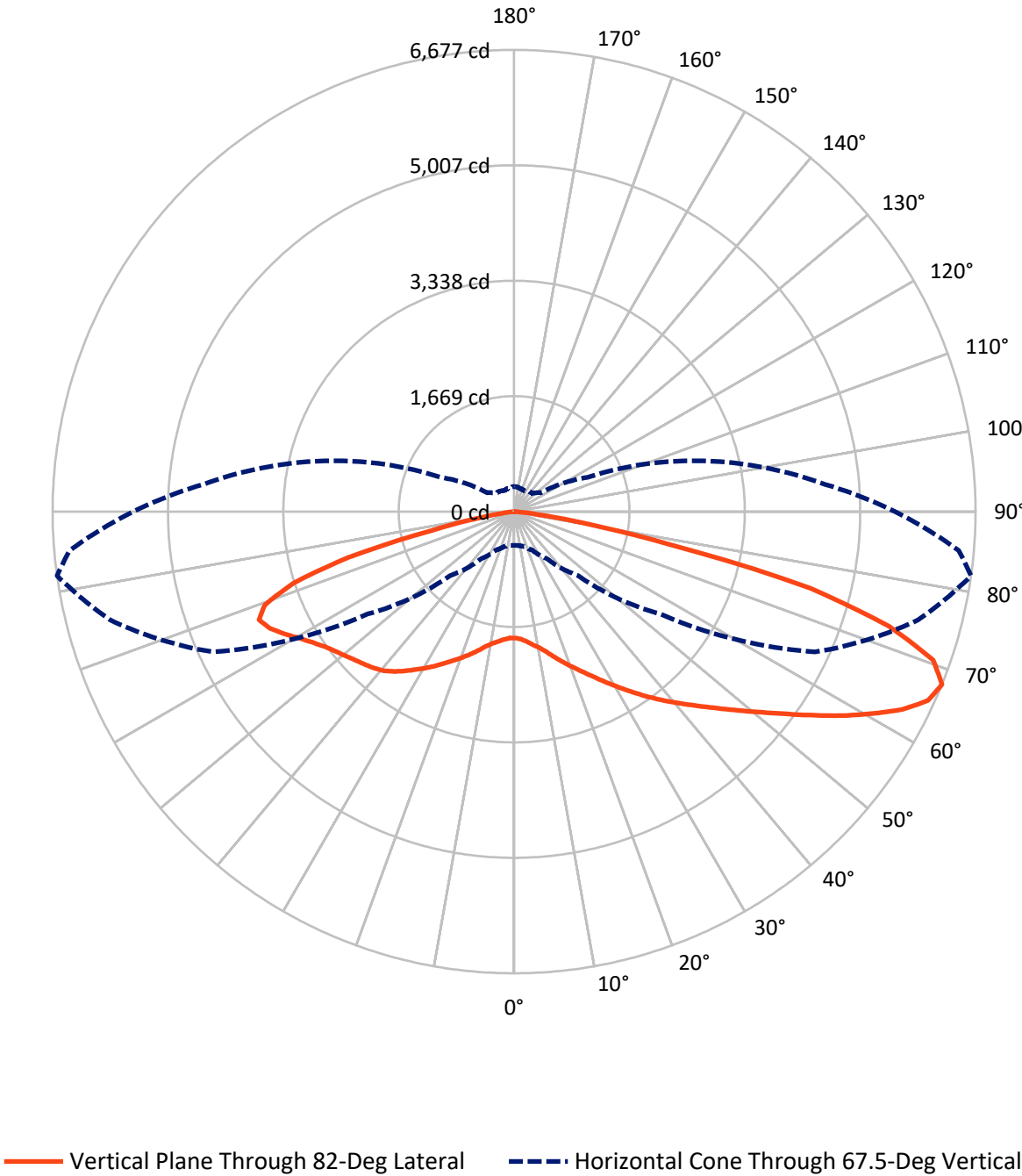


REPORT NUMBER: P836820
CATALOG NUMBER: ARCH3-80-727-U-T2R



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Luminous Intensity Polar Plot



REPORT NUMBER: P836820

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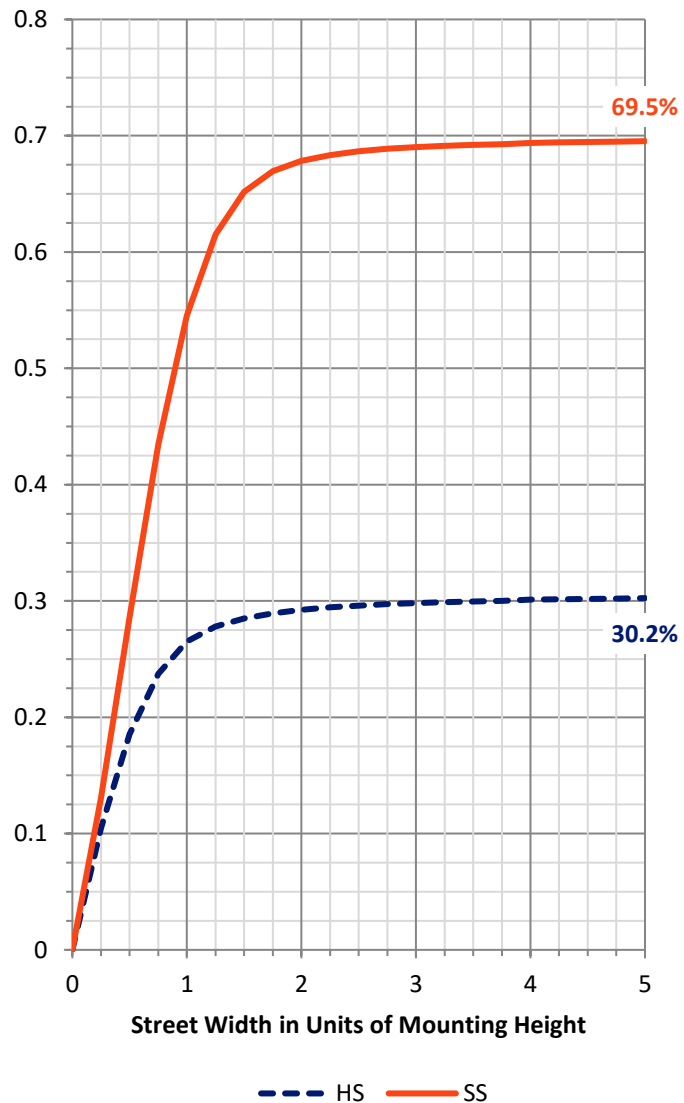
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3872.5	0.0	3872.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8843.4	0.0	8843.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	12716.0	0.0	12716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.5
10°-20°	680.4	5.4
20°-30°	1367.5	10.8
30°-40°	2148.2	16.9
40°-50°	2617.0	20.6
50°-60°	2472.7	19.4
60°-70°	2041.9	16.1
70°-80°	1111.9	8.7
80°-90°	87.4	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°	12716.0	100.0
0°-180°	12716.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836820

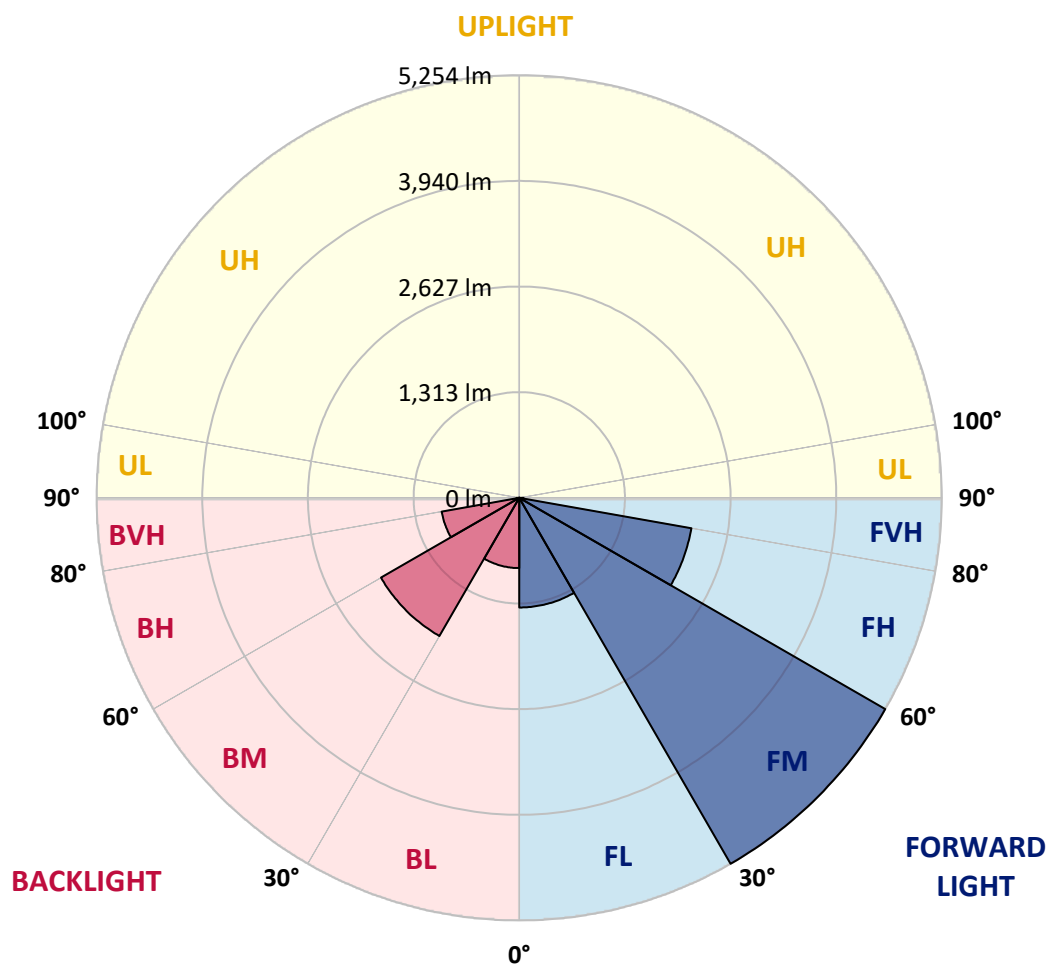
CATALOG NUMBER: ARCH3-80-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.6	10.7			
FM	(30°-60°)	5253.5	41.3			
FH	(60°-80°)	2173.6	17.1			G2/5000
FVH	(80°-90°)	52.7	0.4			G1/100
BL	(0°-30°)	873.3	6.9	B2/1000		
BM	(30°-60°)	1984.4	15.6	B2/2500		
BH	(60°-80°)	980.2	7.7	B2/1000		G2/1000
BVH	(80°-90°)	34.7	0.3			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 II Medium



REPORT NUMBER: P836820

CATALOG NUMBER: ARCH3-80-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9
2.5°	1911.0	1911.0	1925.8	1925.8	1912.9	1892.5	1887.0	1864.8	1844.5	1844.5	1846.4
5°	2093.8	2092.0	2103.0	2088.3	2056.9	2016.2	1988.6	1940.5	1899.9	1887.0	1885.2
7.5°	2317.2	2315.4	2320.9	2296.9	2237.8	2171.3	2116.0	2038.4	1971.9	1944.2	1936.9
10°	2566.5	2564.6	2559.1	2518.5	2439.1	2335.7	2252.6	2145.5	2045.8	2001.5	1992.2
12.5°	2852.7	2849.0	2836.0	2777.0	2668.0	2535.1	2415.1	2276.6	2143.6	2082.7	2062.4
15°	3172.1	3166.5	3142.5	3070.5	2924.7	2756.6	2601.6	2424.3	2261.8	2182.4	2154.7
17.5°	3508.1	3508.1	3471.2	3364.1	3201.6	2993.0	2801.0	2575.7	2385.5	2287.7	2254.4
20°	3849.7	3847.9	3801.7	3672.5	3480.4	3240.4	2996.7	2749.3	2512.9	2394.8	2354.1
22.5°	4209.8	4206.1	4148.8	4001.1	3772.2	3500.7	3216.4	2921.0	2653.3	2511.1	2459.4
25°	4623.3	4617.8	4547.6	4366.7	4095.3	3788.8	3463.8	3122.2	2813.9	2640.3	2579.4
27.5°	5062.8	5055.4	4972.3	4761.8	4464.6	4095.3	3737.1	3354.9	2991.1	2784.3	2716.0
30°	5454.2	5448.7	5358.2	5142.2	4800.6	4399.9	3997.4	3587.5	3177.6	2937.6	2852.7
32.5°	5749.6	5749.6	5668.4	5456.1	5101.6	4691.7	4259.6	3807.2	3371.5	3101.9	3002.2
35°	5928.7	5934.3	5864.1	5694.2	5360.0	4966.8	4531.0	4065.7	3578.3	3277.3	3170.2
37.5°	5954.6	5973.0	5932.4	5818.0	5539.1	5195.7	4796.9	4315.0	3792.5	3454.6	3334.6
40°	5834.6	5847.5	5849.3	5805.0	5613.0	5360.0	5031.4	4579.0	4019.6	3641.1	3502.6
42.5°	5594.5	5603.8	5620.4	5633.3	5559.5	5432.1	5210.5	4824.6	4261.5	3831.2	3668.8
45°	5284.3	5282.5	5310.2	5365.6	5361.9	5391.4	5310.2	5048.0	4512.6	4047.3	3853.4
47.5°	4820.9	4811.7	4909.5	5035.1	5097.9	5236.3	5312.0	5223.4	4785.8	4285.5	4063.9
50°	4095.3	4086.0	4300.2	4595.6	4780.3	4990.8	5210.5	5328.7	5072.0	4553.2	4292.8
52.5°	3212.7	3203.5	3474.9	3991.9	4394.4	4700.9	5005.5	5352.7	5343.4	4852.3	4551.3
55°	2389.2	2381.8	2645.9	3205.3	3857.1	4364.8	4754.4	5289.9	5598.2	5195.7	4865.2
57.5°	1683.9	1680.2	1909.2	2372.6	3166.5	3955.0	4512.6	5168.0	5832.7	5568.7	5219.7
60°	1181.7	1176.1	1342.3	1700.5	2394.8	3336.4	4272.5	5005.5	6008.1	5936.1	5596.4
62.5°	795.8	792.1	910.3	1209.4	1700.5	2568.3	3908.8	4896.6	6107.8	6305.4	5976.7
65°	603.8	601.9	655.5	819.8	1203.8	1844.5	3330.9	4883.7	6120.8	6582.4	6299.9
67.5°	487.4	489.3	518.8	613.0	832.7	1310.9	2583.1	4802.4	6052.4	6676.5	6456.8
70°	398.8	398.8	411.7	474.5	614.8	884.4	1803.9	4433.2	5862.3	6430.9	6270.3
72.5°	304.7	306.5	347.1	384.0	463.4	620.4	1155.8	3668.8	5413.6	5670.2	5548.4
75°	241.9	240.0	264.0	315.7	360.0	443.1	709.0	2631.1	4606.7	4431.3	4353.8
77.5°	173.6	171.7	190.2	234.5	273.3	313.9	422.8	1327.5	2505.5	2302.4	2245.2
80°	118.2	114.5	131.1	162.5	180.9	184.6	206.8	509.6	1093.1	1030.3	1017.4
82.5°	60.9	60.9	70.2	92.3	94.2	96.0	92.3	164.3	361.9	337.9	323.1
85°	24.0	24.0	25.8	31.4	31.4	33.2	33.2	42.5	38.8	36.9	35.1
87.5°	1.8	1.8	3.7	3.7	5.5	5.5	5.5	7.4	9.2	9.2	9.2
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: P836820

CATALOG NUMBER: ARCH3-80-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9	1827.9
2.5°	1842.7	1835.3	1811.3	1805.8	1802.1	1796.5	1798.4	1785.5	1779.9	1781.8	1774.4
5°	1875.9	1863.0	1833.5	1820.5	1816.8	1811.3	1816.8	1807.6	1798.4	1802.1	1798.4
7.5°	1922.1	1903.6	1866.7	1853.8	1851.9	1846.4	1853.8	1846.4	1839.0	1842.7	1835.3
10°	1970.1	1946.1	1905.5	1892.5	1892.5	1890.7	1898.1	1887.0	1879.6	1881.5	1877.8
12.5°	2040.3	2008.9	1964.6	1953.5	1947.9	1953.5	1955.3	1940.5	1927.6	1929.5	1923.9
15°	2125.2	2090.1	2042.1	2025.5	2021.8	2019.9	2012.6	1994.1	1977.5	1975.6	1970.1
17.5°	2217.5	2173.2	2116.0	2099.3	2082.7	2077.2	2058.7	2034.7	2008.9	2008.9	2001.5
20°	2306.1	2256.3	2188.0	2164.0	2140.0	2117.8	2086.4	2047.6	2014.4	2008.9	2001.5
22.5°	2402.1	2343.1	2263.7	2228.6	2186.1	2141.8	2088.3	2036.6	1994.1	1984.9	1979.3
25°	2509.2	2435.4	2341.2	2289.5	2221.2	2152.9	2073.5	2007.0	1957.2	1942.4	1938.7
27.5°	2627.4	2538.8	2424.3	2348.6	2248.9	2141.8	2040.3	1960.9	1899.9	1881.5	1875.9
30°	2747.4	2642.2	2500.0	2389.2	2248.9	2106.7	1979.3	1887.0	1816.8	1791.0	1787.3
32.5°	2867.4	2749.3	2568.3	2411.4	2226.7	2047.6	1899.9	1791.0	1711.6	1680.2	1687.6
35°	3011.4	2867.4	2631.1	2420.6	2189.8	1975.6	1809.5	1682.1	1600.8	1573.1	1578.7
37.5°	3161.0	2985.6	2680.9	2413.2	2138.1	1894.4	1707.9	1584.2	1482.6	1434.6	1440.2
40°	3290.3	3092.7	2716.0	2387.4	2071.6	1802.1	1608.2	1445.7	1305.4	1259.2	1253.7
42.5°	3412.1	3172.1	2734.5	2348.6	1995.9	1695.0	1466.0	1257.4	1117.1	1059.8	1061.7
45°	3539.5	3249.6	2727.1	2296.9	1901.8	1569.4	1283.2	1072.7	949.0	897.3	899.2
47.5°	3685.4	3332.7	2719.7	2241.5	1787.3	1406.9	1107.8	910.3	803.2	766.2	762.6
50°	3840.5	3425.0	2710.5	2173.2	1659.9	1226.0	934.3	758.9	668.4	644.4	638.8
52.5°	4015.9	3524.7	2704.9	2092.0	1506.6	1034.0	779.2	625.9	565.0	548.4	546.5
55°	4226.4	3641.1	2712.3	1994.1	1322.0	853.0	648.1	539.1	498.5	489.3	487.4
57.5°	4483.0	3790.6	2734.5	1879.6	1128.1	696.1	552.1	485.6	459.7	452.4	452.4
60°	4761.8	3960.5	2775.1	1750.4	934.3	574.2	489.3	443.1	432.1	441.3	441.3
62.5°	5062.8	4159.9	2847.1	1593.4	753.3	485.6	439.4	408.1	400.7	419.1	421.0
65°	5341.6	4353.8	2893.3	1405.1	598.2	421.0	400.7	373.0	376.7	395.1	393.3
67.5°	5513.3	4514.4	2828.7	1168.8	474.5	373.0	360.0	336.0	345.3	360.0	361.9
70°	5408.1	4423.9	2509.2	882.6	371.1	325.0	315.7	301.0	308.3	326.8	334.2
72.5°	4892.9	3962.3	1951.6	596.4	299.1	273.3	277.0	269.6	278.8	295.4	312.0
75°	3971.6	2994.8	1309.1	382.2	236.3	232.6	238.2	232.6	236.3	253.0	262.2
77.5°	2073.5	1460.5	651.8	238.2	175.4	180.9	190.2	192.0	203.1	206.8	210.5
80°	967.5	657.3	271.4	132.9	116.3	127.4	145.9	147.7	151.4	156.9	158.8
82.5°	315.7	197.6	125.6	72.0	66.5	72.0	94.2	112.6	114.5	125.6	125.6
85°	33.2	20.3	27.7	29.5	25.8	31.4	42.5	40.6	18.5	11.1	11.1
87.5°	9.2	7.4	9.2	9.2	7.4	7.4	5.5	1.8	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)