

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: P836847

Luminaire Tested: **ARCH3-80-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836847
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: ARCH3-80-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

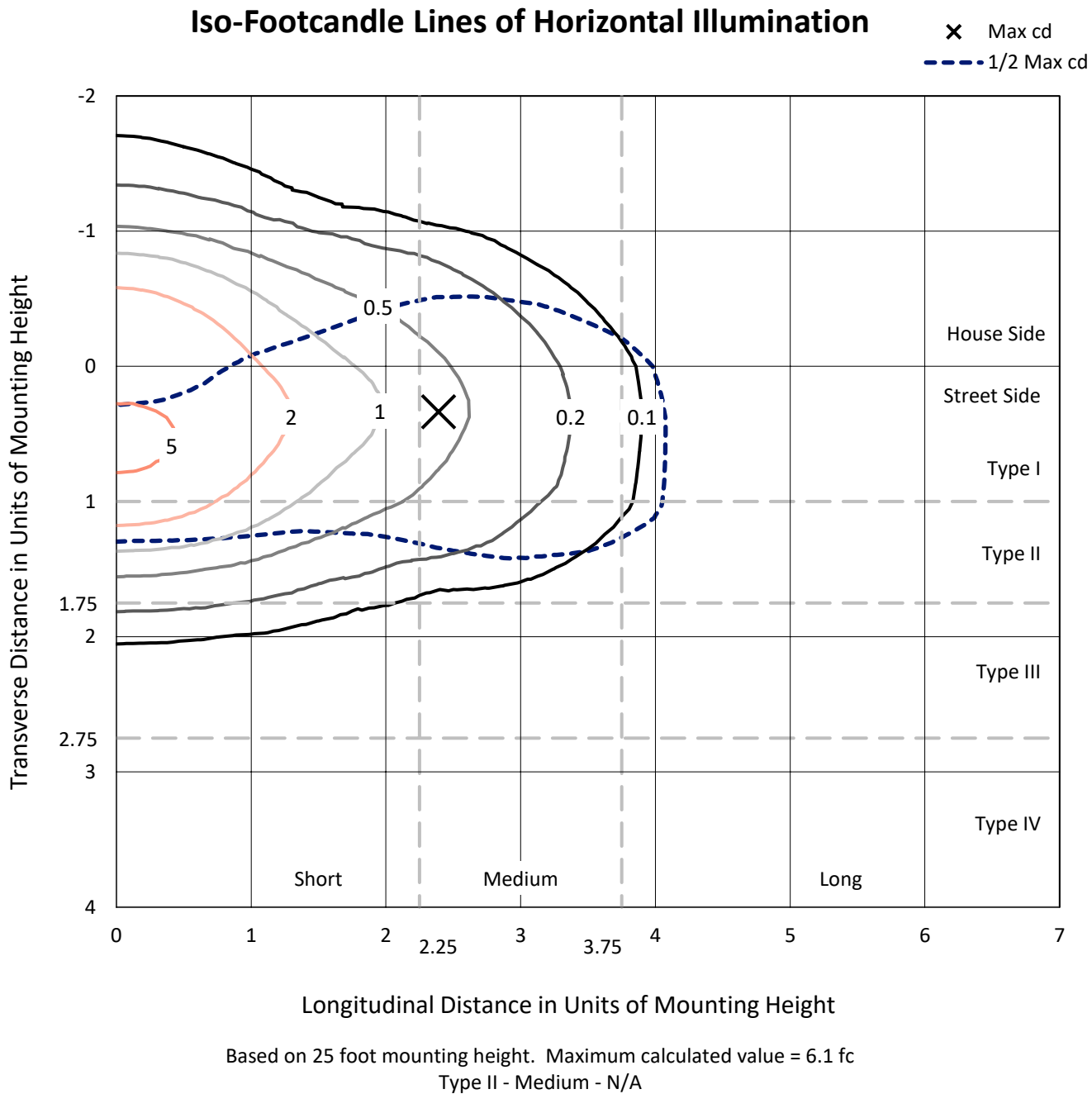
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13836 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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



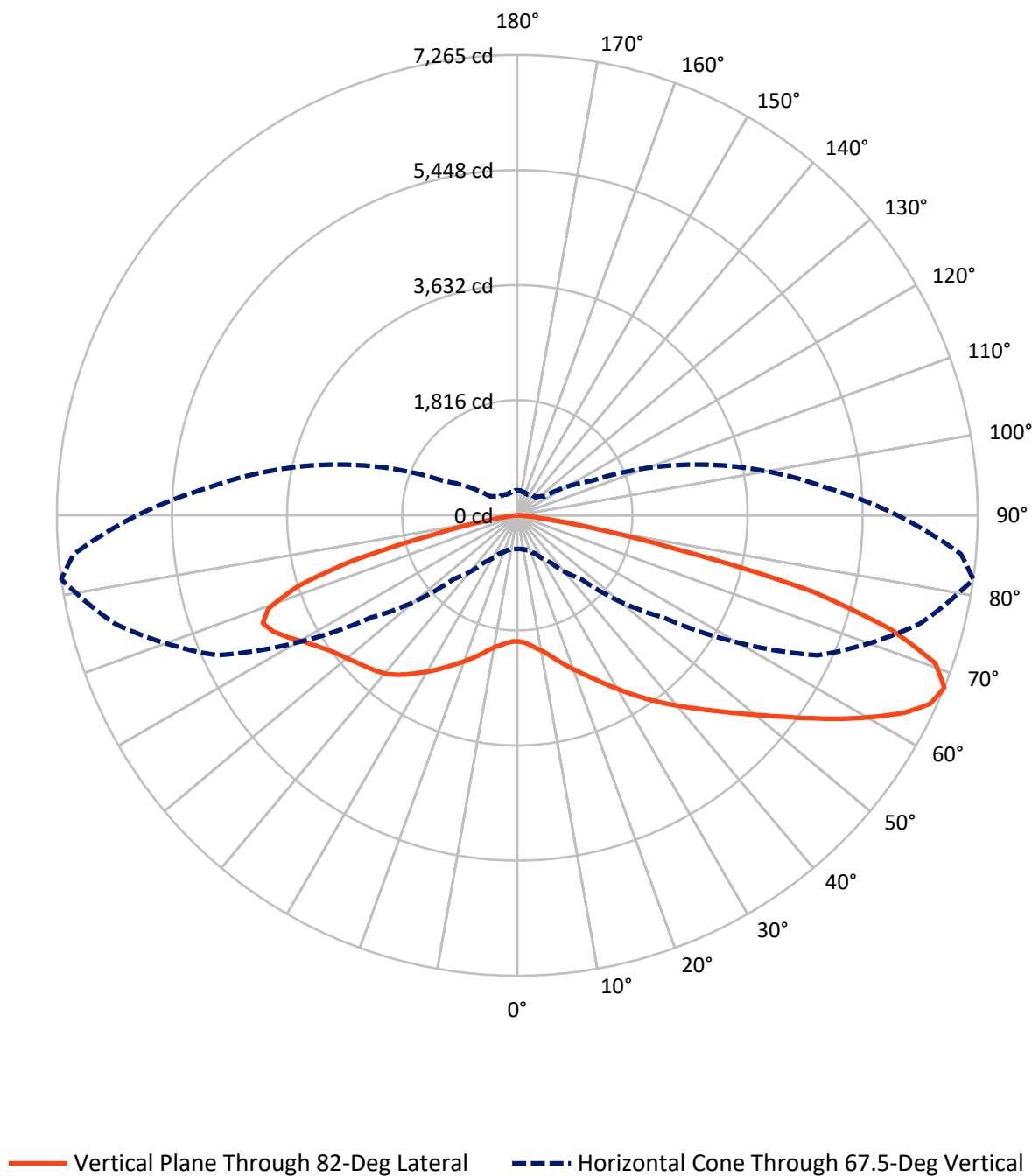
REPORT NUMBER: P836847
CATALOG NUMBER: ARCH3-80-740-U-T2R



REPORT NUMBER: P836847

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Luminous Intensity Polar Plot



REPORT NUMBER: P836847

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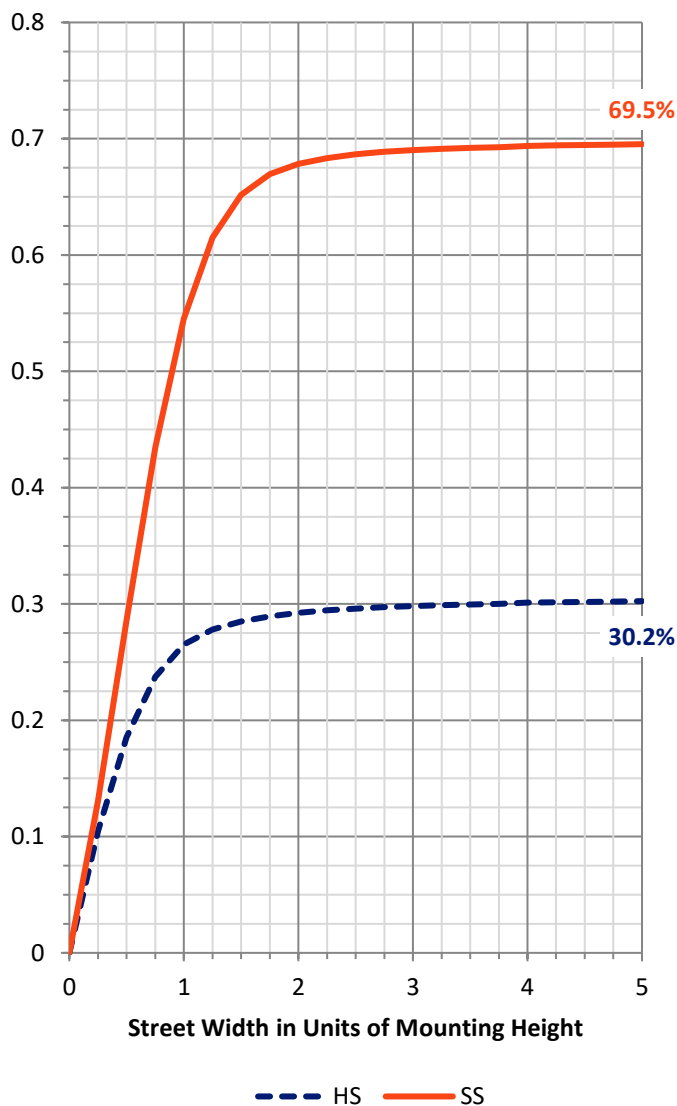
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4213.6	0.0	4213.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9622.4	0.0	9622.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	13836.0	0.0	13836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	1.5
10°-20°	740.4	5.4
20°-30°	1488.0	10.8
30°-40°	2337.4	16.9
40°-50°	2847.5	20.6
50°-60°	2690.5	19.4
60°-70°	2221.7	16.1
70°-80°	1209.8	8.7
80°-90°	95.1	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°	13836.0	100.0
0°-180°	13836.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836847

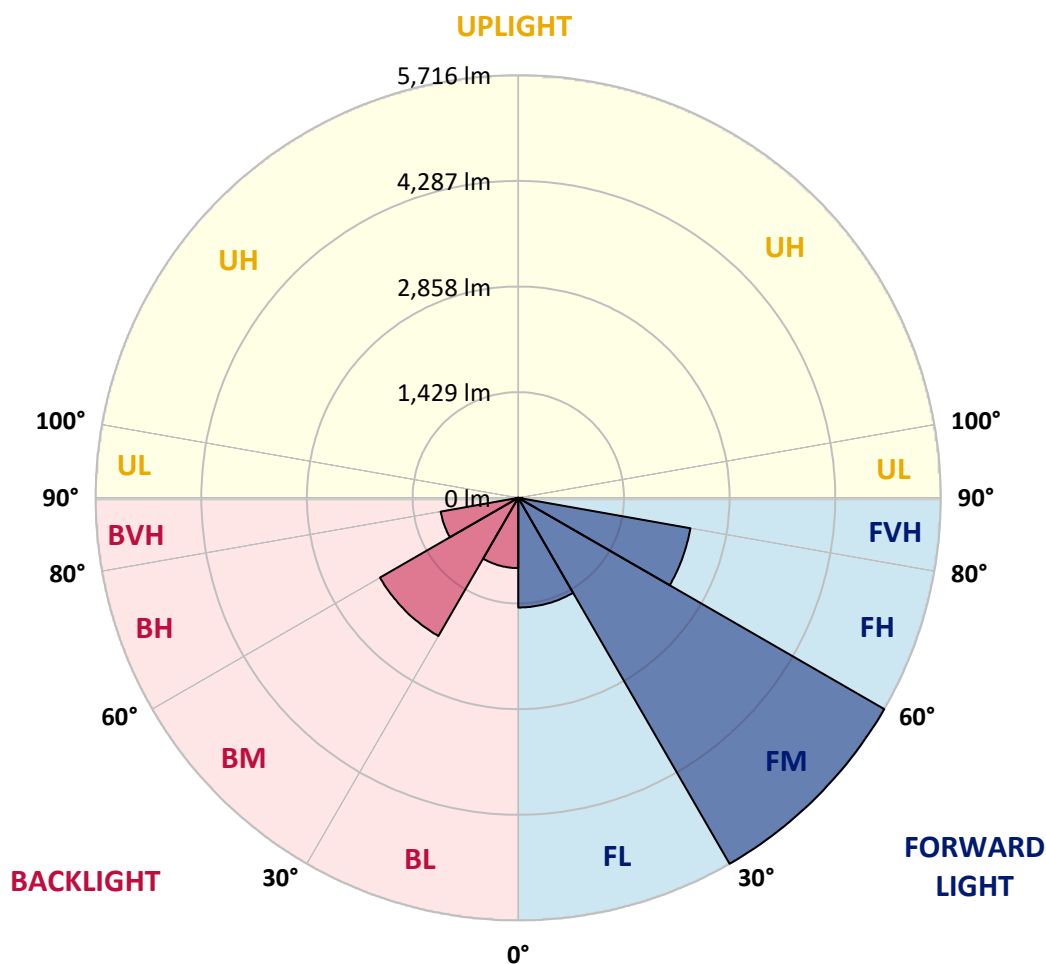
CATALOG NUMBER: ARCH3-80-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1483.7	10.7			
FM	(30°-60°)	5716.2	41.3			
FH	(60°-80°)	2365.1	17.1			G2/5000
FVH	(80°-90°)	57.3	0.4			G1/100
BL	(0°-30°)	950.2	6.9	B2/1000		
BM	(30°-60°)	2159.1	15.6	B2/2500		
BH	(60°-80°)	1066.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	37.8	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: P836847

CATALOG NUMBER: ARCH3-80-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	2079.3	2079.3	2095.4	2095.4	2081.3	2059.2	2053.2	2029.1	2007.0	2007.0	2009.0
5°	2278.2	2276.2	2288.3	2272.2	2238.0	2193.8	2163.7	2111.5	2067.3	2053.2	2051.2
7.5°	2521.3	2519.3	2525.3	2499.2	2434.9	2362.6	2302.3	2217.9	2145.6	2115.5	2107.4
10°	2792.5	2790.5	2784.5	2740.3	2653.9	2541.4	2451.0	2334.5	2226.0	2177.8	2167.7
12.5°	3103.9	3099.9	3085.8	3021.5	2903.0	2758.4	2627.8	2477.1	2332.5	2266.2	2244.1
15°	3451.5	3445.4	3419.3	3341.0	3182.3	2999.4	2830.7	2637.8	2461.0	2374.6	2344.5
17.5°	3817.1	3817.1	3776.9	3660.4	3483.6	3256.6	3047.7	2802.6	2595.6	2489.2	2453.0
20°	4188.8	4186.8	4136.5	3995.9	3787.0	3525.8	3260.6	2991.4	2734.3	2605.7	2561.5
22.5°	4580.5	4576.5	4514.2	4353.5	4104.4	3809.1	3499.7	3178.3	2886.9	2732.3	2676.0
25°	5030.6	5024.5	4948.2	4751.3	4456.0	4122.5	3768.9	3397.2	3061.7	2872.9	2806.6
27.5°	5508.7	5500.7	5410.3	5181.2	4857.8	4456.0	4066.2	3650.4	3254.6	3029.6	2955.3
30°	5934.6	5928.6	5830.1	5595.1	5223.4	4787.5	4349.5	3903.5	3457.5	3196.3	3103.9
32.5°	6256.1	6256.1	6167.7	5936.6	5550.9	5104.9	4634.8	4142.6	3668.4	3375.1	3266.6
35°	6450.9	6457.0	6380.6	6195.8	5832.2	5404.2	4930.1	4423.8	3893.5	3566.0	3449.5
37.5°	6479.1	6499.1	6454.9	6330.4	6027.0	5653.3	5219.4	4695.1	4126.5	3758.9	3628.3
40°	6348.5	6362.5	6364.5	6316.3	6107.4	5832.2	5474.5	4982.3	4373.6	3961.8	3811.1
42.5°	6087.3	6097.3	6115.4	6129.5	6049.1	5910.5	5669.4	5249.5	4636.8	4168.7	3991.9
45°	5749.8	5747.8	5777.9	5838.2	5834.2	5866.3	5777.9	5492.6	4910.0	4403.7	4192.8
47.5°	5245.5	5235.5	5342.0	5478.6	5546.9	5697.5	5779.9	5683.5	5207.3	4662.9	4421.8
50°	4456.0	4445.9	4679.0	5000.4	5201.3	5430.3	5669.4	5798.0	5518.7	4954.2	4670.9
52.5°	3495.7	3485.6	3781.0	4343.5	4781.4	5114.9	5446.4	5824.1	5814.1	5279.7	4952.2
55°	2599.7	2591.6	2878.9	3487.6	4196.8	4749.3	5173.2	5755.8	6091.3	5653.3	5293.7
57.5°	1832.2	1828.2	2077.3	2581.6	3445.4	4303.3	4910.0	5623.2	6346.5	6059.2	5679.5
60°	1285.8	1279.7	1460.5	1850.3	2605.7	3630.3	4648.8	5446.4	6537.3	6459.0	6089.3
62.5°	865.9	861.9	990.4	1315.9	1850.3	2794.5	4253.1	5327.9	6645.8	6860.8	6503.2
65°	656.9	654.9	713.2	892.0	1309.9	2007.0	3624.3	5313.8	6659.9	7162.1	6854.7
67.5°	530.4	532.4	564.5	667.0	906.1	1426.4	2810.6	5225.4	6585.5	7264.6	7025.5
70°	433.9	433.9	448.0	516.3	669.0	962.3	1962.8	4823.6	6378.6	6997.4	6822.6
72.5°	331.5	333.5	377.7	417.9	504.3	675.0	1257.6	3991.9	5890.4	6169.7	6037.1
75°	263.2	261.2	287.3	343.5	391.8	482.2	771.5	2862.8	5012.5	4821.6	4737.2
77.5°	188.8	186.8	206.9	255.1	297.3	341.5	460.1	1444.5	2726.2	2505.2	2443.0
80°	128.6	124.6	142.6	176.8	196.9	200.9	225.0	554.5	1189.3	1121.0	1107.0
82.5°	66.3	66.3	76.3	100.5	102.5	104.5	100.5	178.8	393.8	367.6	351.6
85°	26.1	26.1	28.1	34.2	34.2	36.2	36.2	46.2	42.2	40.2	38.2
87.5°	2.0	2.0	4.0	4.0	6.0	6.0	6.0	8.0	10.0	10.0	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

REPORT NUMBER: P836847

CATALOG NUMBER: ARCH3-80-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	2005.0	1997.0	1970.8	1964.8	1960.8	1954.8	1956.8	1942.7	1936.7	1938.7	1930.7
5°	2041.2	2027.1	1994.9	1980.9	1976.9	1970.8	1976.9	1966.8	1956.8	1960.8	1956.8
7.5°	2091.4	2071.3	2031.1	2017.0	2015.0	2009.0	2017.0	2009.0	2001.0	2005.0	1997.0
10°	2143.6	2117.5	2073.3	2059.2	2059.2	2057.2	2065.3	2053.2	2045.2	2047.2	2043.2
12.5°	2220.0	2185.8	2137.6	2125.5	2119.5	2125.5	2127.5	2111.5	2097.4	2099.4	2093.4
15°	2312.4	2274.2	2222.0	2203.9	2199.9	2197.9	2189.8	2169.7	2151.6	2149.6	2143.6
17.5°	2412.8	2364.6	2302.3	2284.2	2266.2	2260.1	2240.0	2213.9	2185.8	2185.8	2177.8
20°	2509.3	2455.0	2380.7	2354.6	2328.4	2304.3	2270.2	2228.0	2191.8	2185.8	2177.8
22.5°	2613.7	2549.4	2463.0	2424.9	2378.7	2330.4	2272.2	2215.9	2169.7	2159.7	2153.7
25°	2730.2	2649.9	2547.4	2491.2	2416.8	2342.5	2256.1	2183.8	2129.5	2113.5	2109.5
27.5°	2858.8	2762.4	2637.8	2555.5	2447.0	2330.4	2220.0	2133.6	2067.3	2047.2	2041.2
30°	2989.4	2874.9	2720.2	2599.7	2447.0	2292.3	2153.7	2053.2	1976.9	1948.7	1944.7
32.5°	3120.0	2991.4	2794.5	2623.8	2422.9	2228.0	2067.3	1948.7	1862.4	1828.2	1836.2
35°	3276.7	3120.0	2862.8	2633.8	2382.7	2149.6	1968.8	1830.2	1741.8	1711.7	1717.7
37.5°	3439.4	3248.6	2917.1	2625.8	2326.4	2061.2	1858.3	1723.7	1613.2	1561.0	1567.0
40°	3580.1	3365.1	2955.3	2597.6	2254.1	1960.8	1749.8	1573.1	1420.4	1370.1	1364.1
42.5°	3712.6	3451.5	2975.3	2555.5	2171.7	1844.3	1595.2	1368.1	1215.4	1153.2	1155.2
45°	3851.3	3535.9	2967.3	2499.2	2069.3	1707.7	1396.3	1167.2	1032.6	976.4	978.4
47.5°	4010.0	3626.3	2959.3	2438.9	1944.7	1530.9	1205.4	990.4	873.9	833.7	829.7
50°	4178.7	3726.7	2949.2	2364.6	1806.1	1334.0	1016.6	825.7	727.3	701.1	695.1
52.5°	4369.6	3835.2	2943.2	2276.2	1639.4	1125.0	847.8	681.1	614.8	596.7	594.7
55°	4598.6	3961.8	2951.2	2169.7	1438.4	928.2	705.2	586.6	542.4	532.4	530.4
57.5°	4877.9	4124.5	2975.3	2045.2	1227.5	757.4	600.7	528.4	500.2	492.2	492.2
60°	5181.2	4309.3	3019.5	1904.5	1016.6	624.8	532.4	482.2	470.1	480.2	480.2
62.5°	5508.7	4526.3	3097.9	1733.8	819.7	528.4	478.1	444.0	436.0	456.0	458.1
65°	5812.1	4737.2	3148.1	1528.9	650.9	458.1	436.0	405.8	409.8	429.9	427.9
67.5°	5998.9	4912.0	3077.8	1271.7	516.3	405.8	391.8	365.6	375.7	391.8	393.8
70°	5884.4	4813.6	2730.2	960.3	403.8	353.6	343.5	327.5	335.5	355.6	363.6
72.5°	5323.9	4311.3	2123.5	648.9	325.5	297.3	301.4	293.3	303.4	321.4	339.5
75°	4321.4	3258.6	1424.4	415.9	257.2	253.1	259.2	253.1	257.2	275.2	285.3
77.5°	2256.1	1589.1	709.2	259.2	190.9	196.9	206.9	208.9	221.0	225.0	229.0
80°	1052.7	715.2	295.3	144.6	126.6	138.6	158.7	160.7	164.7	170.8	172.8
82.5°	343.5	215.0	136.6	78.4	72.3	78.4	102.5	122.5	124.6	136.6	136.6
85°	36.2	22.1	30.1	32.1	28.1	34.2	46.2	44.2	20.1	12.1	12.1
87.5°	10.0	8.0	10.0	10.0	8.0	8.0	6.0	2.0	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)