

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: P1210837

Luminaire Tested: **ARCH3-90-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210837
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: ARCH3-90-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12413 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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



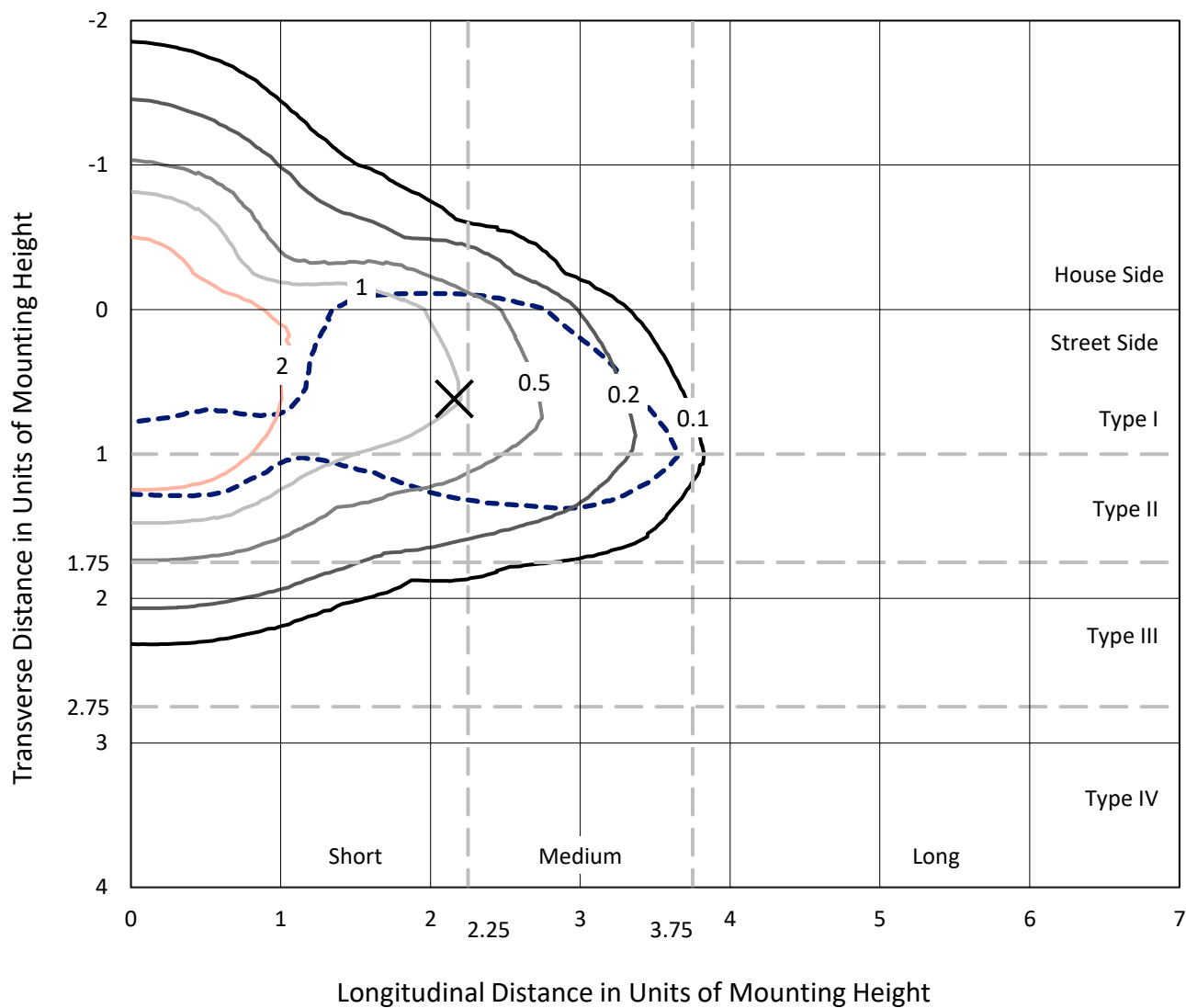
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

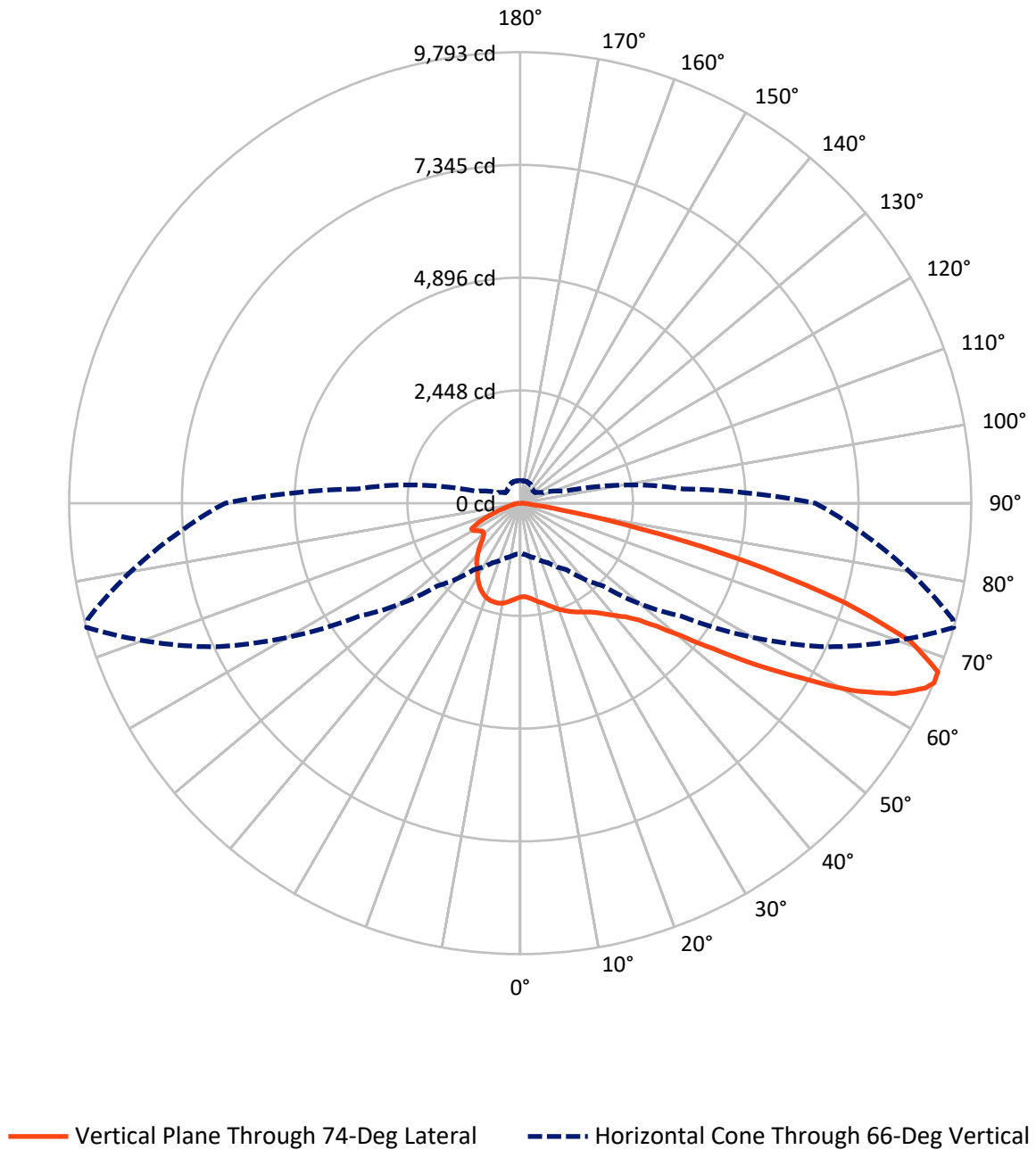


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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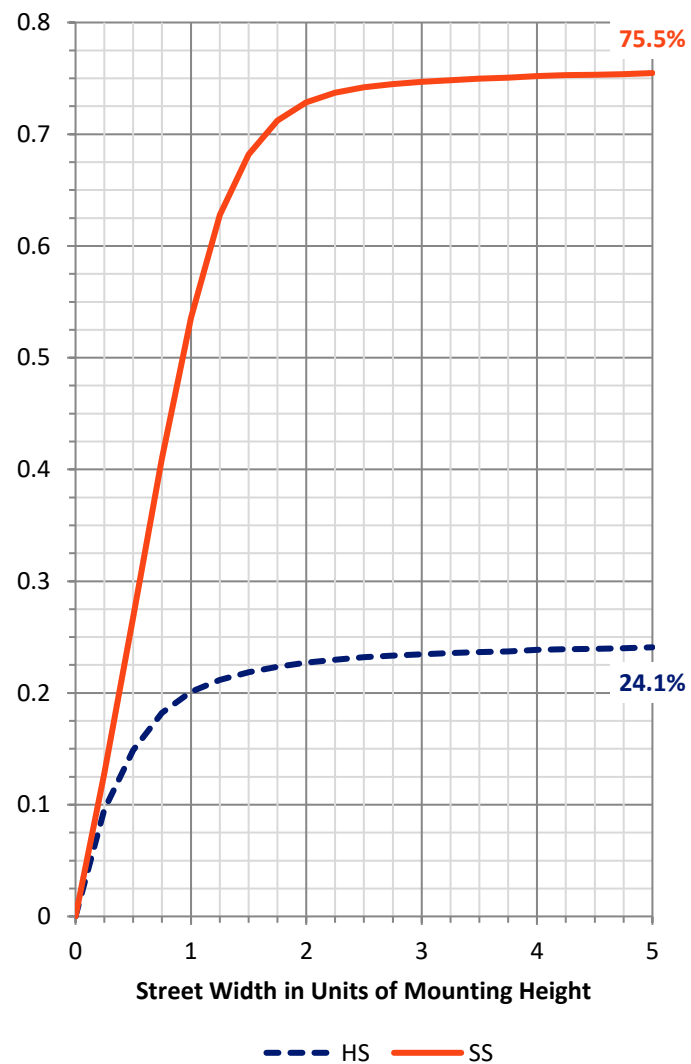
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3022.9	0.0	3022.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9390.1	0.0	9390.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	12413.0	0.0	12413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	1.6
10°-20°	596.9	4.8
20°-30°	1120.2	9.0
30°-40°	1723.1	13.9
40°-50°	2317.7	18.7
50°-60°	2740.9	22.1
60°-70°	2535.5	20.4
70°-80°	1066.7	8.6
80°-90°	118.0	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°	12413.0	100.0
0°-180°	12413.0	100.0

Coefficient of Utilization



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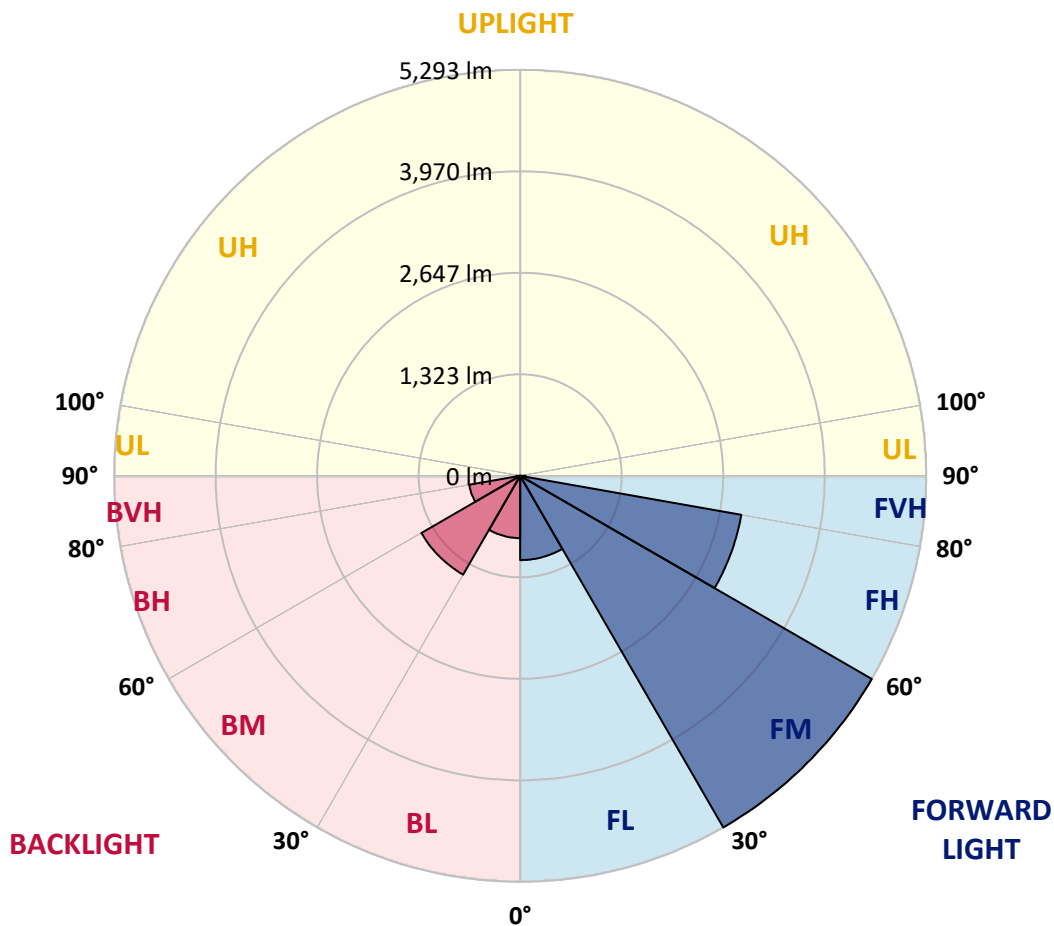
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.7	8.9			
FM	(30°-60°)	5293.4	42.6			
FH	(60°-80°)	2927.3	23.6			G2/5000
FVH	(80°-90°)	70.6	0.6			G1/100
BL	(0°-30°)	812.5	6.5	B2/1000		
BM	(30°-60°)	1488.2	12.0	B2/2500		
BH	(60°-80°)	674.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	47.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9
2.5°	2028.5	2025.3	2031.7	2041.3	2046.1	2038.1	2034.9	2033.3	2033.3	2028.5	2036.5
5°	1932.7	1931.1	1945.5	1963.0	1996.6	2020.5	2052.5	2071.6	2065.3	2055.7	2062.1
7.5°	1808.1	1804.9	1822.5	1856.0	1902.3	1955.0	2033.3	2094.0	2118.0	2114.8	2113.2
10°	1856.0	1852.8	1851.2	1841.6	1857.6	1908.7	1990.2	2097.2	2178.7	2180.3	2181.9
12.5°	2022.1	2030.1	2022.1	1991.8	1956.6	1937.5	1985.4	2105.2	2229.8	2239.4	2279.3
15°	2248.9	2240.9	2225.0	2189.8	2135.5	2078.0	2042.9	2141.9	2303.2	2311.2	2399.1
17.5°	2448.6	2455.0	2445.4	2411.9	2348.0	2272.9	2165.9	2205.8	2381.5	2403.9	2526.9
20°	2665.8	2691.4	2678.6	2637.1	2584.4	2472.6	2338.4	2298.5	2467.8	2483.7	2659.4
22.5°	2916.6	2943.7	2919.8	2879.9	2836.7	2699.4	2526.9	2411.9	2539.6	2573.2	2787.2
25°	3216.9	3242.4	3220.1	3157.8	3103.5	2935.8	2729.7	2539.6	2609.9	2646.7	2891.0
27.5°	3454.9	3474.0	3494.8	3458.1	3375.0	3200.9	2940.5	2672.2	2680.2	2718.5	2986.9
30°	3667.3	3715.2	3732.8	3737.6	3667.3	3472.4	3156.2	2809.6	2740.9	2780.8	3082.7
32.5°	3958.0	4029.9	4001.1	4029.9	3988.3	3728.0	3379.8	2951.7	2819.2	2855.9	3173.7
35°	4382.9	4440.4	4365.3	4342.9	4275.9	3986.7	3595.4	3098.7	2923.0	2962.9	3260.0
37.5°	4839.7	4905.2	4796.6	4707.1	4579.3	4242.3	3780.7	3291.9	3066.7	3098.7	3339.9
40°	5239.0	5293.3	5199.1	5080.9	4866.8	4467.5	3940.4	3427.7	3210.5	3250.4	3432.5
42.5°	5608.0	5643.1	5537.7	5424.3	5138.4	4670.4	4112.9	3571.5	3378.2	3416.5	3507.6
45°	5981.7	6008.9	5861.9	5700.6	5365.2	4855.7	4303.0	3772.7	3624.2	3675.3	3629.0
47.5°	6048.8	6056.8	6031.2	5922.6	5544.1	5033.0	4537.8	4042.7	3999.5	4055.4	3838.2
50°	5584.0	5655.9	5814.0	5921.0	5616.0	5181.5	4772.6	4429.2	4517.0	4588.9	4272.7
52.5°	4681.6	4750.2	5116.0	5521.7	5443.4	5215.0	5025.0	4919.5	5247.0	5333.2	4863.6
55°	3729.6	3790.3	4176.8	4761.4	4886.0	5061.7	5294.9	5545.7	6178.2	6235.7	5512.1
57.5°	3071.5	3105.1	3381.4	3943.6	4143.3	4571.3	5440.3	6290.0	7125.4	7213.2	6076.0
60°	2518.9	2555.6	2761.7	3224.9	3490.0	3870.1	5325.2	7024.7	8256.2	8256.2	6799.5
62.5°	1895.9	1927.9	2119.6	2482.1	2927.8	3276.0	4957.9	7511.9	9109.1	9070.8	7323.4
65°	1301.8	1327.3	1466.3	1707.5	2108.4	2792.0	4456.3	7518.3	9674.6	9623.5	7547.0
66°	1092.5	1114.9	1233.1	1427.9	1765.0	2533.2	4279.0	7382.5	9792.8	9720.9	7452.8
67.5°	862.5	878.5	956.8	1071.8	1293.8	2050.9	3999.5	6997.6	9781.6	9738.5	7213.2
70°	616.5	627.7	685.2	709.2	765.1	1186.8	3176.9	6128.7	8997.3	9010.1	6270.8
72.5°	477.6	495.1	530.3	535.1	522.3	630.9	1927.9	5112.8	7360.2	7355.4	4654.4
75°	384.9	394.5	412.1	421.7	418.5	407.3	816.2	3814.2	5066.5	5125.6	2606.7
77.5°	303.5	301.9	317.9	330.6	340.2	319.5	373.8	2236.2	2656.2	2581.2	979.1
80°	223.6	223.6	246.0	250.8	265.1	268.3	249.2	862.5	912.0	829.0	254.0
82.5°	146.9	146.9	170.9	174.1	188.5	209.2	180.5	258.8	252.4	239.6	115.0
85°	79.9	76.7	84.7	95.8	103.8	123.0	108.6	129.4	132.6	131.0	76.7
87.5°	16.0	14.4	22.4	25.6	28.8	38.3	35.1	52.7	73.5	71.9	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9	2034.9
2.5°	2047.7	2046.1	2063.7	2084.4	2108.4	2122.8	2129.1	2140.3	2132.3	2135.5	2145.1
5°	2078.0	2082.8	2108.4	2135.5	2146.7	2138.7	2121.2	2114.8	2100.4	2097.2	2094.0
7.5°	2122.8	2130.7	2156.3	2162.7	2129.1	2073.2	2033.3	2010.9	1987.0	1980.6	1977.4
10°	2196.2	2201.0	2207.4	2141.9	2058.9	1983.8	1934.3	1913.5	1897.5	1884.8	1888.0
12.5°	2288.9	2285.7	2236.2	2100.4	1982.2	1905.5	1872.0	1859.2	1848.0	1840.0	1838.4
15°	2405.5	2383.1	2240.9	2042.9	1910.3	1846.4	1822.5	1817.7	1804.9	1804.9	1803.3
17.5°	2523.7	2466.2	2237.8	1982.2	1841.6	1806.5	1792.1	1788.9	1785.7	1784.1	1788.9
20°	2641.9	2539.6	2212.2	1907.1	1793.7	1773.0	1769.8	1771.4	1768.2	1773.0	1769.8
22.5°	2745.7	2587.6	2164.3	1827.3	1760.2	1758.6	1750.6	1753.8	1765.0	1766.6	1771.4
25°	2825.5	2605.1	2094.0	1753.8	1736.2	1733.0	1742.6	1755.4	1765.0	1766.6	1774.6
27.5°	2891.0	2595.5	2006.2	1696.3	1694.7	1712.3	1741.0	1745.8	1747.4	1747.4	1741.0
30°	2940.5	2574.8	1894.3	1632.4	1640.4	1683.5	1710.7	1710.7	1697.9	1694.7	1704.3
32.5°	2951.7	2547.6	1773.0	1566.9	1579.7	1630.8	1664.3	1653.2	1638.8	1638.8	1645.2
35°	2961.3	2510.9	1675.5	1477.5	1496.6	1557.3	1589.3	1566.9	1550.9	1546.1	1544.5
37.5°	2958.1	2496.5	1587.7	1364.1	1389.6	1448.7	1469.5	1448.7	1424.8	1413.6	1427.9
40°	2961.3	2486.9	1477.5	1239.5	1265.0	1300.2	1327.3	1311.3	1289.0	1260.2	1274.6
42.5°	2980.5	2499.7	1356.1	1118.1	1118.1	1137.2	1183.6	1172.4	1118.1	1106.9	1119.7
45°	3082.7	2568.4	1234.7	996.7	979.1	991.9	1039.8	991.9	958.4	958.4	969.5
47.5°	3330.3	2696.2	1127.7	889.7	848.1	873.7	886.5	841.8	816.2	809.8	821.0
50°	3835.0	2951.7	1063.8	801.8	750.7	769.9	761.9	760.3	734.7	737.9	744.3
52.5°	4601.7	3450.1	1044.6	758.7	694.8	699.6	691.6	694.8	690.0	706.0	710.8
55°	5437.1	3975.6	1068.6	765.1	656.5	622.9	626.1	642.1	661.3	686.8	691.6
57.5°	6061.6	4239.1	1130.9	808.2	608.6	557.4	565.4	595.8	632.5	653.3	664.5
60°	6526.4	4207.2	1221.9	819.4	551.1	498.3	512.7	557.4	589.4	607.0	618.1
62.5°	6678.1	4007.5	1244.3	737.9	476.0	442.4	477.6	523.9	538.3	557.4	565.4
65°	6553.5	3724.8	1081.3	599.0	418.5	400.9	452.0	487.2	506.3	515.9	517.5
66°	6406.6	3555.5	993.5	544.7	397.7	388.1	442.4	471.2	490.4	488.8	490.4
67.5°	6083.9	3200.9	851.3	468.0	367.4	369.0	426.5	445.6	452.0	447.2	447.2
70°	4986.6	2253.7	610.2	354.6	322.6	345.0	383.3	388.1	402.5	396.1	396.1
72.5°	3074.7	1106.9	408.9	271.5	287.5	322.6	321.0	337.0	370.6	380.1	386.5
75°	1511.0	448.8	269.9	230.0	257.2	269.9	266.7	306.7	354.6	396.1	410.5
77.5°	573.4	223.6	188.5	201.3	207.6	202.9	212.4	277.9	354.6	429.7	444.0
80°	177.3	154.9	148.5	166.1	156.5	148.5	159.7	230.0	300.3	325.8	325.8
82.5°	107.0	121.4	115.0	113.4	105.4	107.0	115.0	164.5	231.6	242.8	242.8
85°	75.1	79.9	65.5	62.3	60.7	59.1	59.1	95.8	137.4	135.8	140.6
87.5°	28.8	31.9	24.0	24.0	22.4	16.0	12.8	16.0	16.0	11.2	8.0
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)