

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: P799353

Luminaire Tested: **ARCH2-110-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11048 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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

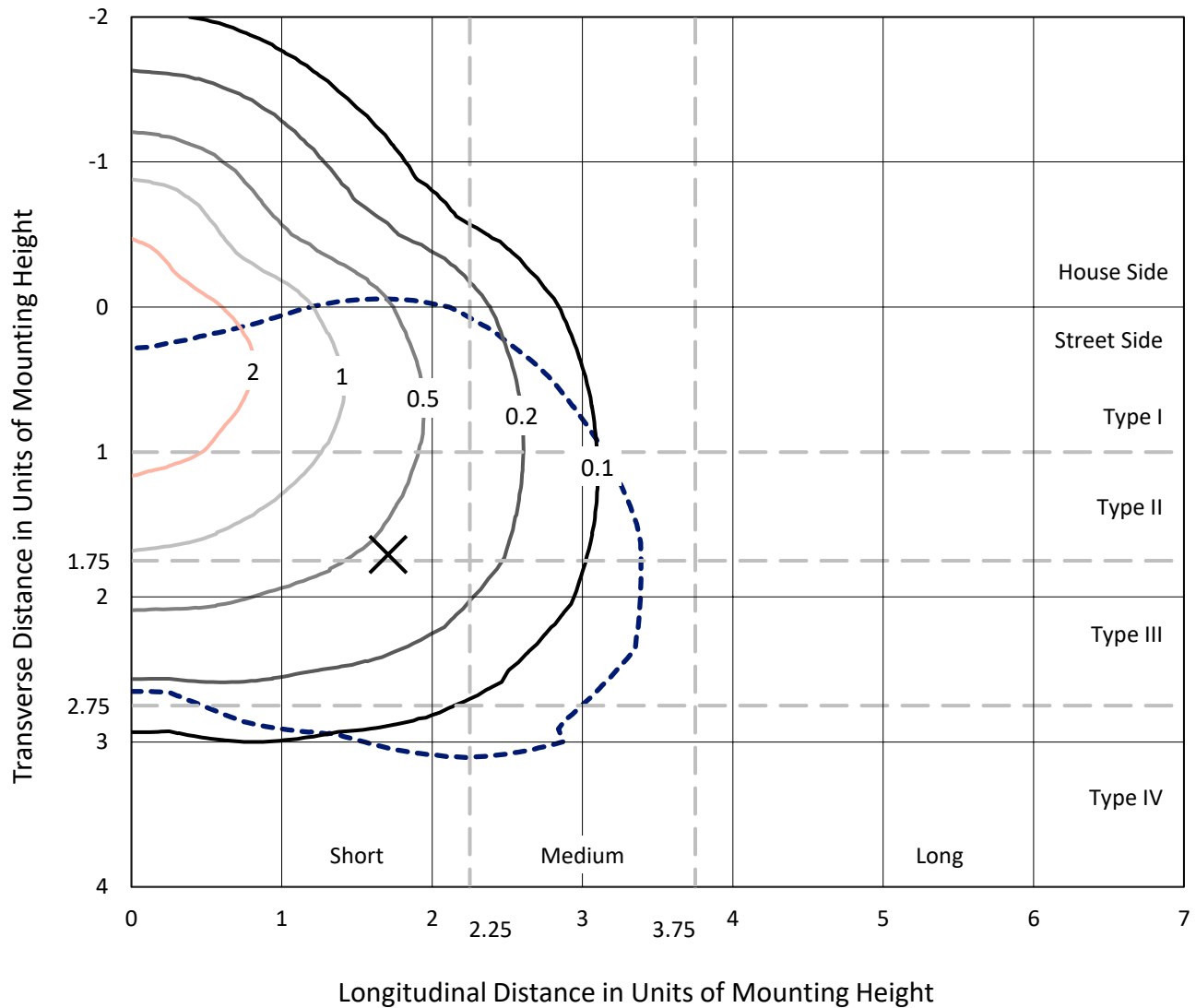


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Iso-Footcandle Lines of Horizontal Illumination

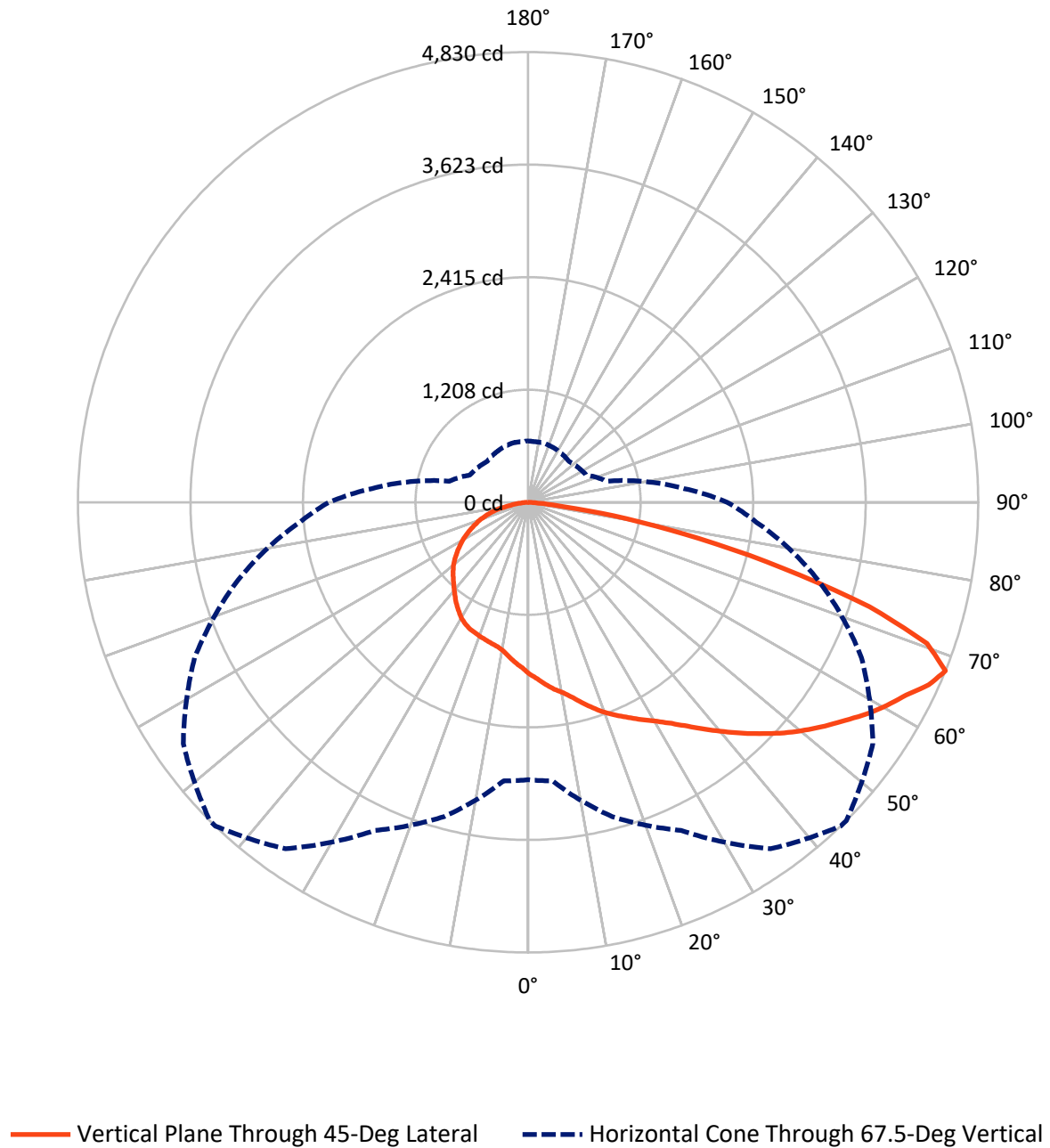
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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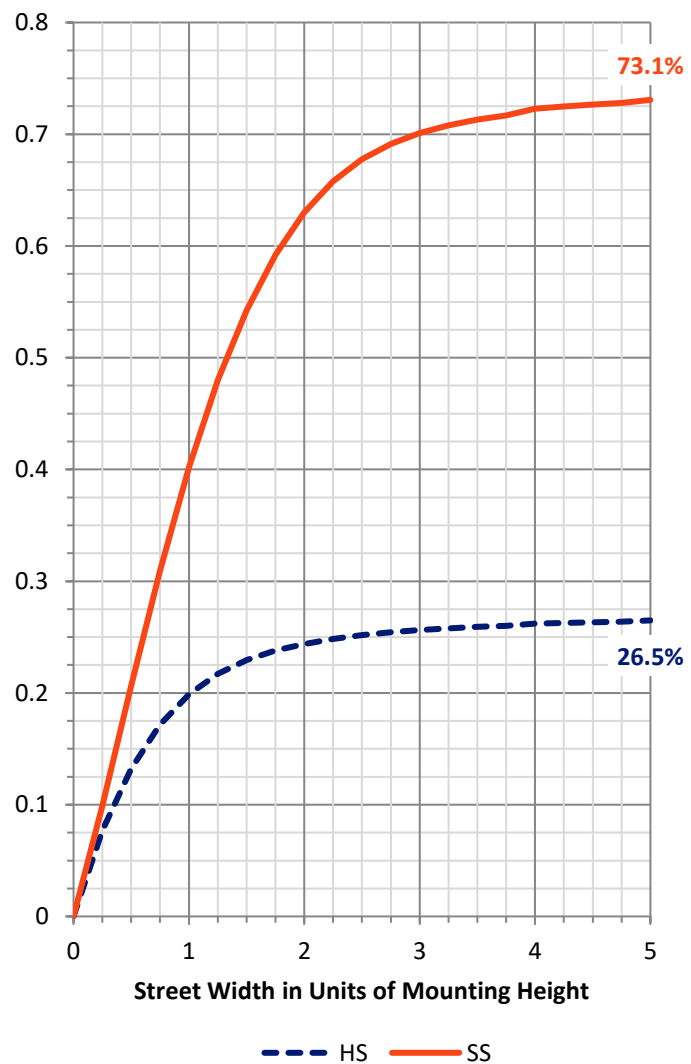
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2951.5	0.0	2951.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8096.5	0.0	8096.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	11048.0	0.0	11048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.6
10°-20°	545.0	4.9
20°-30°	940.7	8.5
30°-40°	1387.2	12.6
40°-50°	1879.4	17.0
50°-60°	2297.1	20.8
60°-70°	2369.1	21.4
70°-80°	1297.6	11.7
80°-90°	155.5	1.4
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°	11048.0	100.0
0°-180°	11048.0	100.0

Coefficient of Utilization



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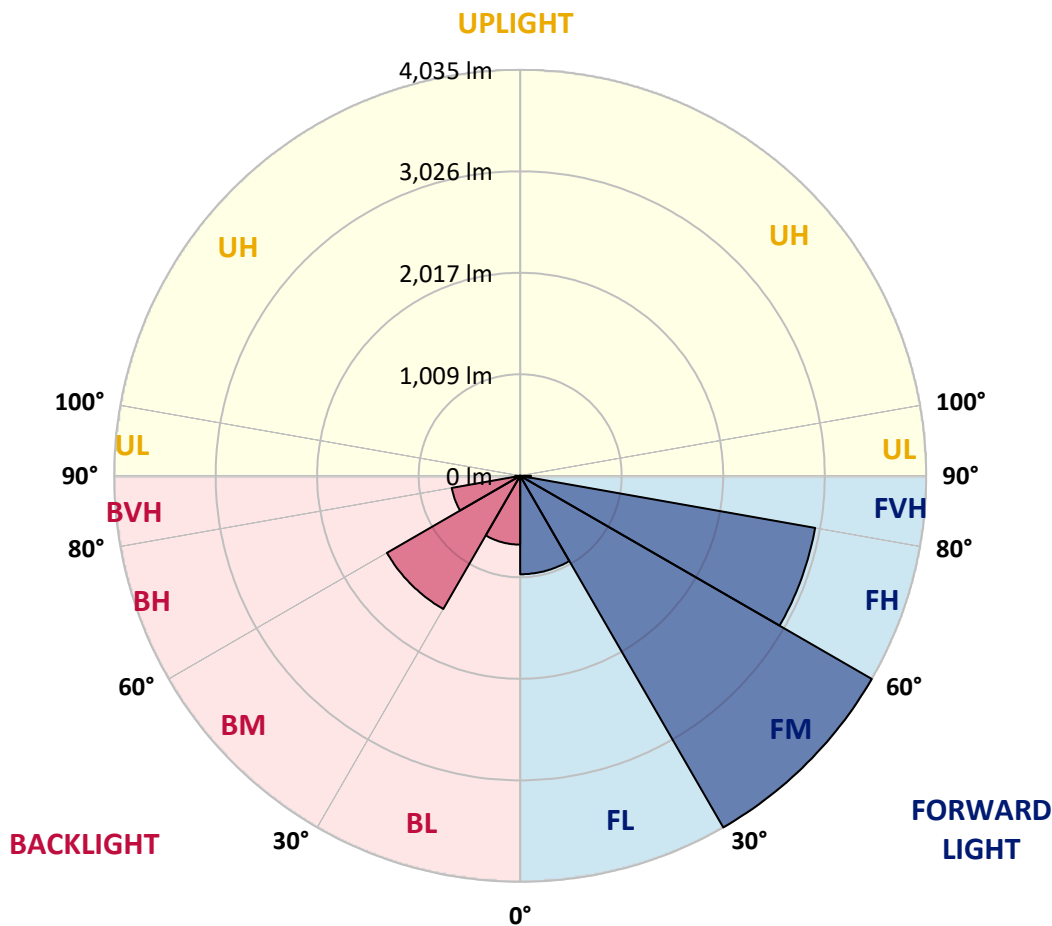
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.0	8.9			
FM	(30°-60°)	4034.8	36.5			
FH	(60°-80°)	2976.5	26.9			G2/5000
FVH	(80°-90°)	107.1	1.0			G2/225
BL	(0°-30°)	684.1	6.2	B2/1000		
BM	(30°-60°)	1528.8	13.8	B2/2500		
BH	(60°-80°)	690.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	48.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1923.3	1921.6	1925.0	1913.2	1898.1	1896.4	1896.4	1886.3	1874.5	1851.0	1832.5
5°	2014.1	2010.7	2012.4	1995.6	1975.4	1965.3	1963.6	1941.8	1914.9	1877.9	1844.3
7.5°	2098.1	2094.8	2093.1	2074.6	2044.3	2027.5	2025.8	1993.9	1962.0	1904.8	1856.0
10°	2177.2	2173.8	2170.4	2145.2	2108.2	2083.0	2079.6	2039.3	1998.9	1928.3	1866.1
12.5°	2278.0	2271.3	2267.9	2237.7	2183.9	2157.0	2151.9	2098.1	2047.7	1962.0	1886.3
15°	2383.9	2378.9	2373.9	2345.3	2284.8	2249.4	2241.0	2173.8	2104.9	2005.7	1916.6
17.5°	2463.0	2457.9	2457.9	2432.7	2377.2	2336.9	2330.1	2249.4	2163.7	2046.0	1940.1
20°	2511.7	2506.7	2511.7	2496.6	2454.6	2420.9	2414.2	2325.1	2222.5	2083.0	1960.3
22.5°	2547.0	2542.0	2550.4	2543.7	2513.4	2493.2	2488.2	2400.8	2283.1	2121.7	1980.5
25°	2609.2	2609.2	2609.2	2597.5	2568.9	2562.2	2562.2	2486.5	2360.4	2172.1	2010.7
27.5°	2733.6	2726.9	2718.5	2684.9	2636.1	2634.4	2644.5	2573.9	2449.5	2237.7	2047.7
30°	2916.9	2913.5	2881.6	2811.0	2728.6	2720.2	2726.9	2668.1	2545.3	2306.6	2089.7
32.5°	3153.9	3142.2	3076.6	2970.7	2853.0	2814.3	2827.8	2765.6	2646.2	2377.2	2130.1
35°	3322.1	3325.4	3278.3	3182.5	3043.0	2940.4	2950.5	2874.9	2755.5	2456.2	2180.5
37.5°	3515.4	3527.2	3456.6	3384.3	3254.8	3080.0	3090.0	2987.5	2864.8	2555.4	2234.3
40°	3782.7	3759.2	3639.8	3554.1	3411.2	3226.2	3234.6	3113.6	2990.9	2649.6	2296.5
42.5°	4006.3	3964.3	3819.7	3710.4	3538.9	3380.9	3389.3	3249.8	3118.6	2753.8	2365.5
45°	4327.4	4211.4	4002.9	3949.1	3670.1	3532.2	3540.6	3394.3	3253.1	2864.8	2439.4
47.5°	4514.0	4329.1	4196.3	4167.7	3814.6	3688.6	3698.6	3547.3	3397.7	2990.9	2516.8
50°	4502.3	4382.9	4344.2	4273.6	3942.4	3834.8	3844.9	3705.4	3544.0	3115.3	2590.7
52.5°	4424.9	4446.8	4426.6	4308.9	4070.2	3976.0	3987.8	3861.7	3693.6	3231.3	2659.7
55°	4544.3	4559.4	4520.8	4366.1	4211.4	4117.3	4130.7	4026.5	3841.5	3333.8	2718.5
57.5°	4687.2	4633.4	4594.7	4467.0	4357.7	4270.3	4285.4	4194.6	3969.3	3416.2	2763.9
60°	4680.5	4567.8	4606.5	4473.7	4456.9	4411.5	4424.9	4332.5	4066.8	3476.7	2782.4
62.5°	4335.8	4275.3	4470.3	4424.9	4537.6	4537.6	4554.4	4416.5	4125.7	3501.9	2772.3
65°	3737.3	3740.7	4083.6	4271.9	4633.4	4710.7	4724.2	4468.6	4092.0	3428.0	2678.2
67.5°	2977.4	2999.3	3491.9	3883.6	4537.6	4828.4	4830.1	4515.7	3947.5	3219.5	2459.6
70°	2178.8	2195.6	2777.3	3253.1	4085.3	4567.8	4540.9	4382.9	3633.1	2856.4	2118.3
72.5°	1472.7	1487.9	2086.4	2498.3	3352.3	3890.3	3831.5	3873.5	3096.8	2347.0	1703.1
75°	990.2	1008.7	1484.5	1787.1	2466.3	2953.9	2822.7	2933.7	2395.7	1777.0	1242.4
77.5°	623.7	635.5	943.2	1171.8	1684.6	2010.7	1879.6	1881.3	1380.3	956.6	667.4
80°	396.8	400.1	571.6	675.8	975.1	1208.8	1069.2	869.2	622.0	507.7	398.4
82.5°	230.3	225.3	341.3	381.6	464.0	459.0	380.0	359.8	272.4	253.9	203.4
85°	92.5	85.7	149.6	139.5	141.2	149.6	111.0	111.0	89.1	68.9	50.4
87.5°	18.5	18.5	20.2	18.5	18.5	20.2	15.1	15.1	13.4	13.4	13.4
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°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1829.1	1825.8	1817.4	1795.5	1783.8	1777.0	1766.9	1763.6	1761.9	1763.6	1768.6
5°	1834.2	1822.4	1798.9	1763.6	1740.0	1724.9	1708.1	1701.4	1696.3	1696.3	1701.4
7.5°	1837.6	1819.1	1778.7	1726.6	1693.0	1669.4	1649.3	1640.9	1639.2	1644.2	1645.9
10°	1839.2	1812.3	1755.2	1689.6	1645.9	1615.6	1595.5	1590.4	1595.5	1605.5	1607.2
12.5°	1851.0	1814.0	1741.7	1664.4	1612.3	1582.0	1566.9	1566.9	1580.3	1598.8	1600.5
15°	1871.2	1825.8	1735.0	1644.2	1590.4	1563.5	1558.5	1566.9	1587.1	1615.6	1619.0
17.5°	1886.3	1832.5	1719.9	1617.3	1561.8	1545.0	1553.4	1573.6	1602.2	1640.9	1644.2
20°	1896.4	1832.5	1698.0	1585.4	1533.3	1529.9	1553.4	1585.4	1615.6	1661.0	1666.1
22.5°	1906.5	1829.1	1672.8	1546.7	1501.3	1511.4	1555.1	1595.5	1625.7	1674.5	1682.9
25°	1925.0	1834.2	1647.6	1508.0	1467.7	1496.3	1553.4	1602.2	1634.1	1684.6	1698.0
27.5°	1950.2	1846.0	1629.1	1472.7	1434.1	1472.7	1541.7	1600.5	1634.1	1682.9	1698.0
30°	1977.1	1859.4	1607.2	1434.1	1395.4	1439.1	1516.4	1582.0	1620.7	1666.1	1684.6
32.5°	2005.7	1874.5	1588.7	1392.0	1348.3	1393.7	1479.5	1553.4	1595.5	1637.5	1657.7
35°	2044.3	1901.4	1578.6	1358.4	1306.3	1346.6	1432.4	1516.4	1561.8	1600.5	1624.0
37.5°	2091.4	1935.1	1573.6	1324.8	1260.9	1294.5	1381.9	1471.1	1519.8	1551.7	1573.6
40°	2145.2	1977.1	1571.9	1292.8	1215.5	1240.7	1329.8	1418.9	1466.0	1491.2	1509.7
42.5°	2205.7	2024.2	1568.6	1260.9	1170.1	1190.3	1279.4	1366.8	1407.2	1429.0	1445.8
45°	2269.6	2071.2	1561.8	1222.2	1121.4	1144.9	1227.3	1304.6	1346.6	1365.1	1383.6
47.5°	2333.5	2118.3	1548.4	1178.5	1077.7	1099.5	1171.8	1239.0	1272.7	1289.5	1308.0
50°	2395.7	2160.3	1516.4	1128.1	1032.3	1052.4	1107.9	1153.3	1178.5	1192.0	1210.5
52.5°	2451.2	2188.9	1471.1	1069.2	986.9	997.0	1033.9	1072.6	1092.8	1094.5	1111.3
55°	2498.3	2204.1	1405.5	1008.7	938.1	939.8	960.0	990.2	998.6	991.9	1003.7
57.5°	2525.2	2195.6	1333.2	946.5	887.7	880.9	896.1	911.2	912.9	896.1	907.8
60°	2531.9	2157.0	1239.0	884.3	837.2	818.7	823.8	820.4	817.1	810.3	820.4
62.5°	2498.3	2074.6	1134.8	823.8	783.4	754.9	753.2	751.5	756.5	758.2	759.9
65°	2375.5	1919.9	1010.4	761.6	726.3	687.6	685.9	706.1	712.8	702.7	706.1
67.5°	2138.5	1682.9	874.2	689.3	654.0	620.4	633.8	645.6	657.3	654.0	657.3
70°	1802.2	1381.9	749.8	608.6	575.0	556.5	571.6	581.7	583.4	580.0	583.4
72.5°	1417.3	1079.3	633.8	526.2	496.0	487.5	506.0	514.4	529.6	536.3	538.0
75°	1023.9	796.9	519.5	437.1	411.9	411.9	428.7	443.8	457.3	448.9	443.8
77.5°	571.6	475.8	373.2	300.9	306.0	329.5	336.2	353.1	366.5	364.8	361.5
80°	346.3	297.6	252.2	195.0	193.3	211.8	255.5	284.1	290.8	275.7	274.0
82.5°	179.9	156.4	134.5	109.3	121.0	141.2	147.9	178.2	196.7	190.0	198.4
85°	45.4	43.7	48.8	50.4	62.2	68.9	75.7	89.1	58.8	28.6	28.6
87.5°	13.4	13.4	16.8	16.8	21.9	26.9	25.2	25.2	13.4	1.7	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)