

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: P1211130

Luminaire Tested: **ARCH4-180-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18927 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180
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



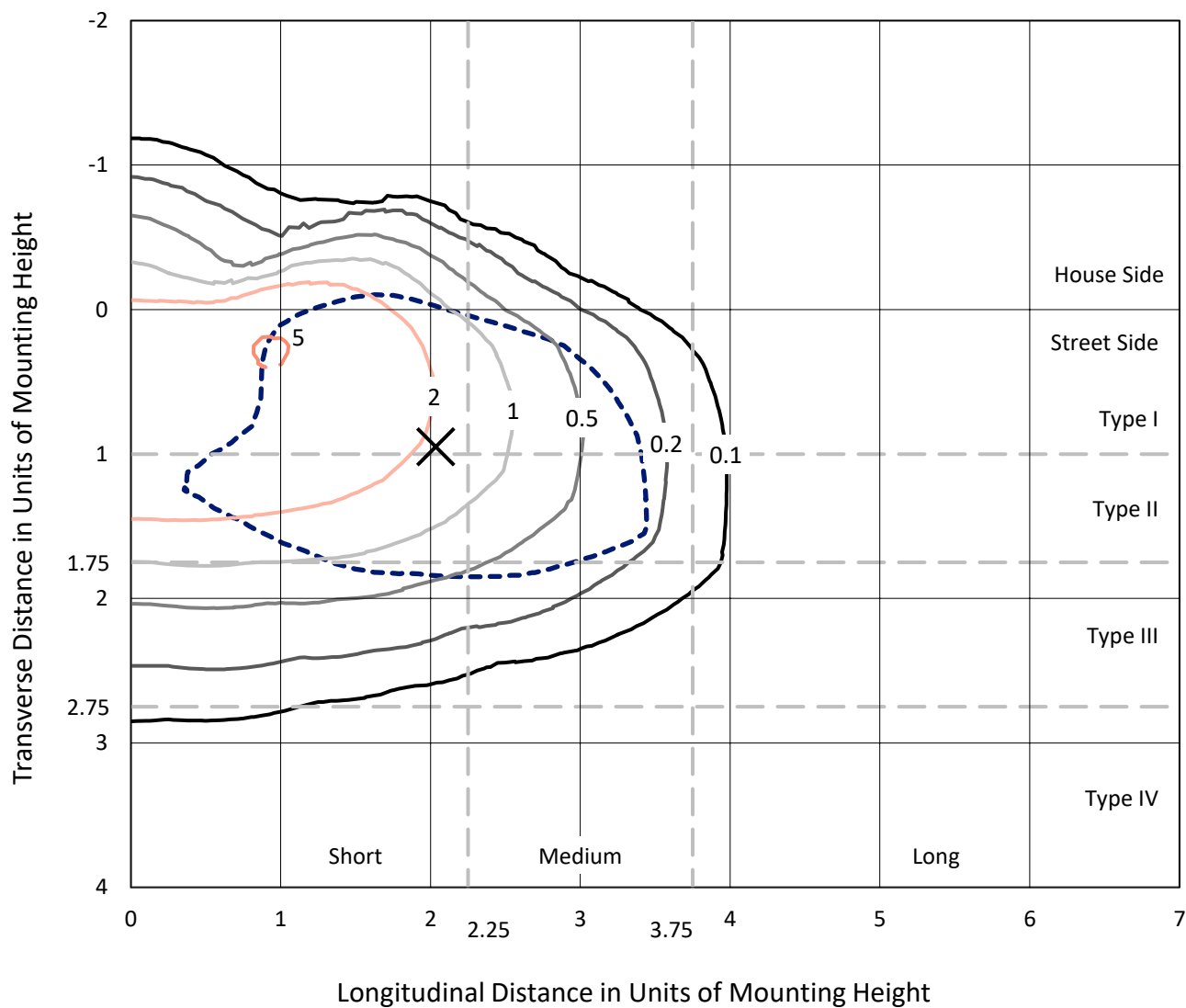
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

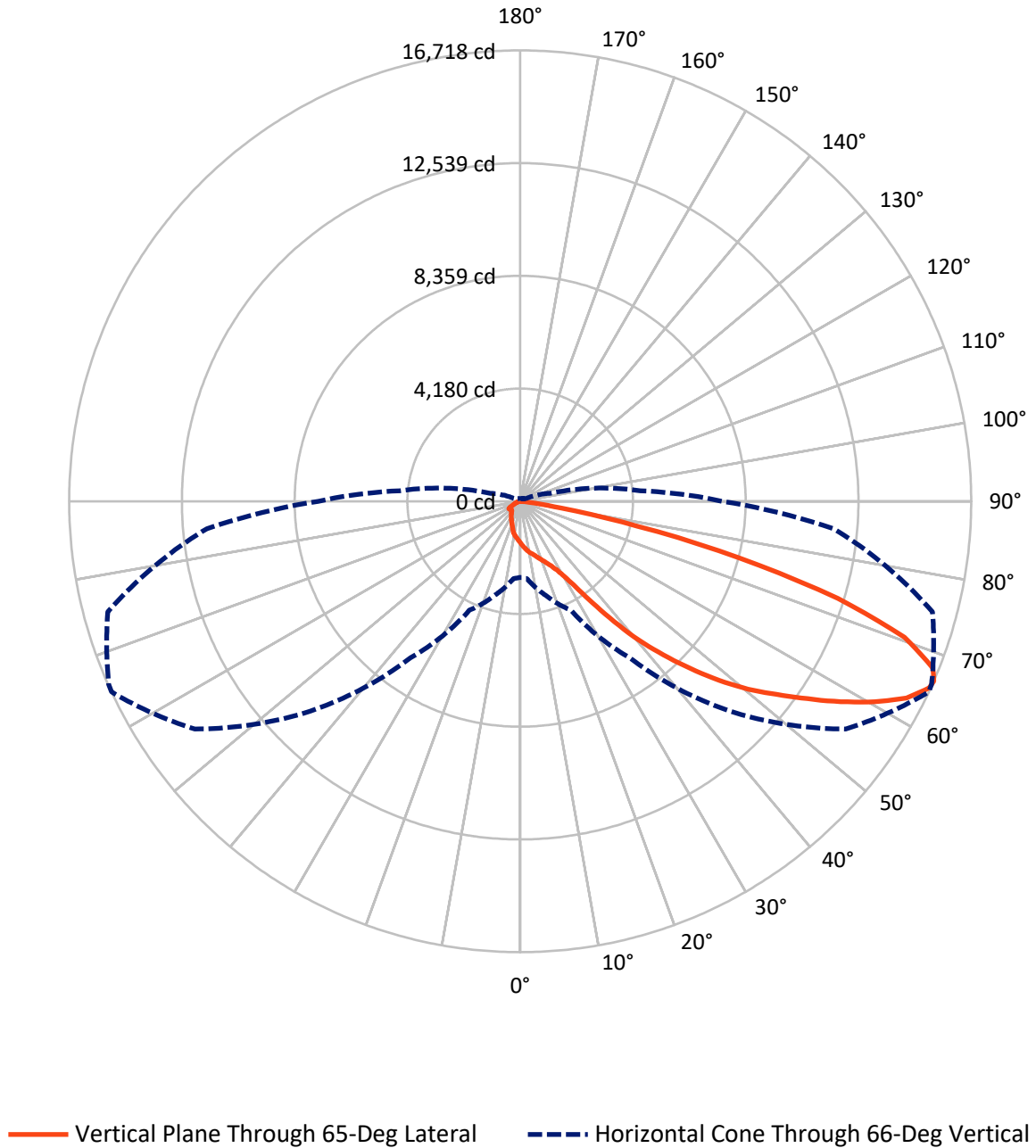
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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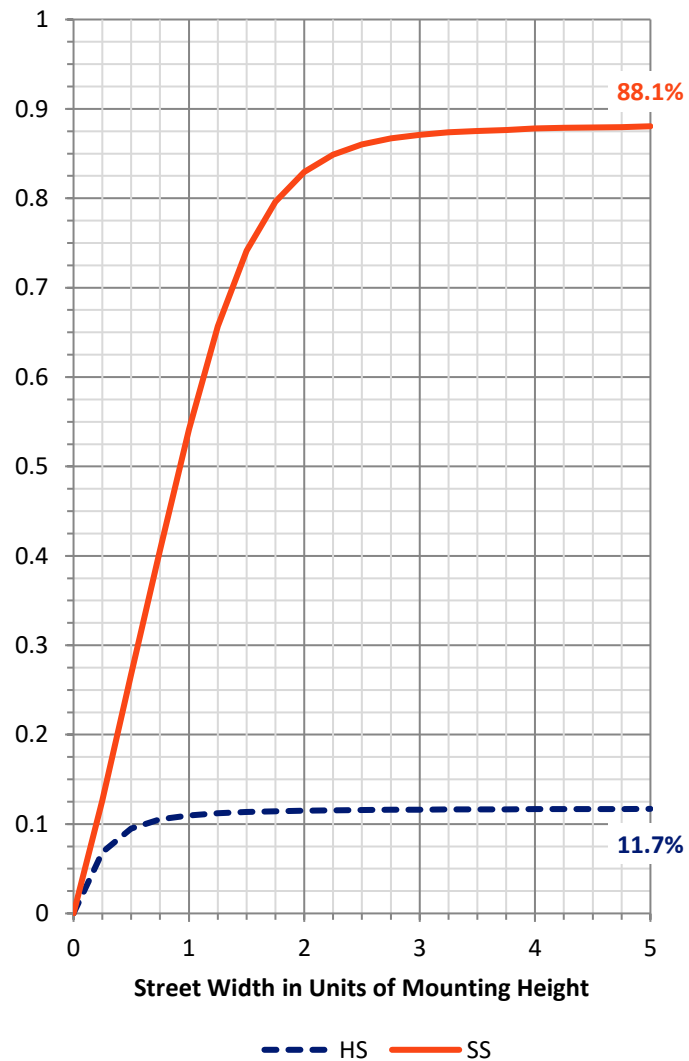
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2233.8	0.0	2233.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16693.2	0.0	16693.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	18927.0	0.0	18927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	0.8
10°-20°	432.8	2.3
20°-30°	792.1	4.2
30°-40°	1609.5	8.5
40°-50°	3398.8	18.0
50°-60°	5225.0	27.6
60°-70°	5259.4	27.8
70°-80°	1965.2	10.4
80°-90°	98.2	0.5
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°	18927.0	100.0
0°-180°	18927.0	100.0

Coefficient of Utilization



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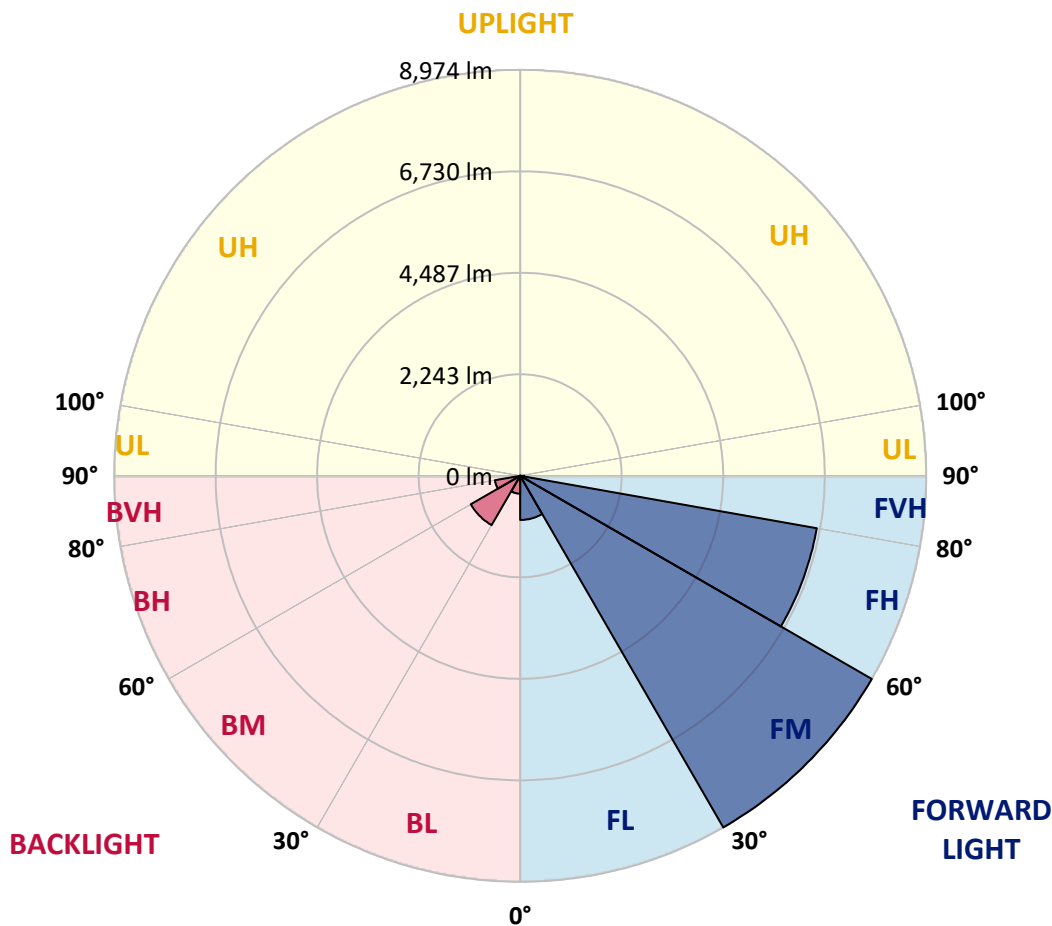
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.7	5.2			
FM	(30°-60°)	8973.9	47.4			
FH	(60°-80°)	6657.1	35.2			G3/7500
FVH	(80°-90°)	86.6	0.5			G1/100
BL	(0°-30°)	395.4	2.1	B1/500		
BM	(30°-60°)	1259.4	6.7	B2/2500		
BH	(60°-80°)	567.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0
2.5°	1758.4	1761.8	1754.9	1741.2	1727.5	1710.3	1682.8	1638.2	1631.3	1600.4	1566.1
5°	1878.6	1885.5	1875.1	1871.7	1864.8	1840.8	1803.0	1737.8	1730.9	1669.1	1590.1
7.5°	1919.8	1930.1	1923.2	1923.2	1923.2	1912.9	1895.8	1837.4	1827.1	1748.1	1627.9
10°	1950.7	1957.6	1954.1	1967.9	1978.2	1971.3	1961.0	1926.7	1916.4	1837.4	1679.4
12.5°	1998.8	2002.2	2005.7	2012.5	2029.7	2036.6	2033.1	2002.2	1995.4	1940.4	1744.6
15°	2043.4	2043.4	2046.9	2077.8	2101.8	2115.6	2119.0	2094.9	2088.1	2043.4	1827.1
17.5°	2084.6	2088.1	2098.4	2132.7	2173.9	2201.4	2218.6	2208.3	2198.0	2163.6	1923.2
20°	2146.5	2153.3	2163.6	2211.7	2252.9	2297.6	2331.9	2328.5	2325.0	2301.0	2036.6
22.5°	2252.9	2259.8	2277.0	2321.6	2362.8	2417.8	2476.2	2472.7	2462.4	2445.2	2170.5
25°	2414.3	2414.3	2424.6	2462.4	2513.9	2579.2	2634.1	2644.4	2634.1	2623.8	2338.8
27.5°	2617.0	2620.4	2620.4	2661.6	2709.7	2792.1	2860.8	2871.1	2871.1	2860.8	2565.5
30°	2898.6	2888.3	2881.4	2915.8	2967.3	3087.5	3207.7	3228.3	3218.0	3235.1	2884.8
32.5°	3382.8	3365.7	3307.3	3314.1	3345.0	3509.9	3712.5	3784.6	3781.2	3812.1	3400.0
35°	4052.5	4018.2	3932.3	3860.2	3856.8	4035.3	4344.4	4615.8	4612.3	4718.8	4183.0
37.5°	4808.1	4852.7	4691.3	4567.7	4529.9	4670.7	5069.1	5656.4	5687.3	5872.7	5209.9
40°	5817.8	5845.2	5639.2	5464.0	5285.4	5337.0	5862.4	6775.9	6830.9	7037.0	6236.8
42.5°	6697.0	6724.4	6604.2	6391.3	6164.6	6068.5	6662.6	7792.5	7837.2	8122.2	7294.5
45°	7294.5	7315.1	7356.4	7377.0	7119.4	6920.2	7641.4	8836.6	8891.5	9221.2	8328.3
47.5°	7761.6	7778.8	7861.2	8067.3	8015.7	7857.8	8637.4	9921.8	9935.5	10303.0	9334.5
50°	7978.0	8019.2	8221.8	8537.8	8764.4	8809.1	9719.2	10948.7	10986.4	11336.8	10285.8
52.5°	7737.6	7751.3	8263.0	8857.2	9313.9	9767.3	10804.4	11900.0	12009.9	12270.9	11141.0
55°	6927.1	7026.7	7802.8	8846.9	9746.7	10677.4	11965.2	12926.9	13026.4	13191.3	11893.1
57.5°	5986.1	6096.0	7040.4	8403.8	9932.1	11518.8	13040.2	14019.0	14087.7	14132.3	12583.4
60°	5172.1	5275.1	6247.1	7555.5	9746.7	12112.9	14039.6	15104.2	15162.6	15042.4	12930.3
62.5°	4172.7	4275.8	5254.5	6432.5	9018.6	12233.1	14781.4	16069.3	16093.3	15767.0	12717.4
65°	3145.9	3214.5	4031.9	5041.6	7744.4	11594.3	14949.7	16670.3	16646.2	15976.5	12078.6
66°	2819.6	2878.0	3599.2	4457.8	7081.6	11010.5	14723.0	16718.4	16694.3	15822.0	11659.6
67.5°	2431.5	2448.7	3042.8	3647.3	5924.2	9770.7	14032.7	16498.6	16519.2	15396.1	10893.7
70°	1899.2	1895.8	2239.2	2538.0	4045.7	6951.1	11704.2	15114.5	15214.1	13788.9	9289.9
72.5°	1215.8	1174.5	1373.7	1552.3	2356.0	4035.3	8534.3	12319.0	12487.3	10831.9	6920.2
75°	724.6	683.4	731.5	776.2	1129.9	1940.4	5017.6	8383.2	8544.6	6944.2	4117.8
77.5°	542.6	525.5	528.9	491.1	501.4	728.1	2290.7	4430.3	4547.1	2843.6	1562.6
80°	415.6	370.9	346.9	364.0	329.7	288.5	851.7	1524.8	1597.0	673.1	326.3
82.5°	278.2	240.4	223.2	243.8	209.5	161.4	206.1	295.4	288.5	182.0	127.1
85°	144.2	123.6	123.6	123.6	106.5	79.0	89.3	120.2	120.2	96.2	75.6
87.5°	41.2	37.8	44.6	41.2	30.9	30.9	34.3	41.2	41.2	37.8	34.3
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°	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0
2.5°	1538.6	1524.8	1487.1	1459.6	1432.1	1408.1	1380.6	1373.7	1360.0	1363.4	1356.6
5°	1548.9	1511.1	1445.9	1384.0	1336.0	1294.7	1243.2	1222.6	1195.1	1184.8	1178.0
7.5°	1562.6	1507.7	1411.5	1325.7	1243.2	1160.8	1078.4	1030.3	999.4	985.7	975.4
10°	1593.5	1521.4	1394.3	1260.4	1119.6	1002.8	920.4	886.1	865.5	862.0	858.6
12.5°	1634.7	1542.0	1377.2	1178.0	992.5	882.6	831.1	820.8	817.4	817.4	813.9
15°	1696.6	1576.4	1349.7	1081.8	892.9	817.4	793.3	776.2	769.3	769.3	769.3
17.5°	1758.4	1617.6	1308.5	982.2	824.2	776.2	752.1	741.8	734.9	738.4	734.9
20°	1837.4	1665.7	1253.5	896.4	779.6	741.8	717.8	707.5	704.0	704.0	704.0
22.5°	1926.7	1720.6	1184.8	831.1	741.8	707.5	683.4	673.1	666.3	669.7	669.7
25°	2046.9	1789.3	1112.7	765.9	704.0	673.1	645.7	631.9	631.9	635.4	638.8
27.5°	2201.4	1871.7	1040.6	724.6	669.7	638.8	607.9	594.1	597.6	604.4	604.4
30°	2428.1	1985.0	968.5	680.0	631.9	597.6	570.1	556.4	563.2	577.0	577.0
32.5°	2750.9	2170.5	906.7	628.5	577.0	539.2	511.7	501.4	518.6	546.1	546.1
35°	3327.9	2510.5	868.9	577.0	518.6	473.9	439.6	429.3	453.3	487.7	487.7
37.5°	4100.6	3056.6	882.6	532.3	470.5	419.0	381.2	367.5	384.6	415.6	425.9
40°	4962.6	3716.0	1002.8	494.5	425.9	374.3	336.6	322.8	333.1	346.9	350.3
42.5°	5824.6	4416.6	1229.5	467.1	391.5	336.6	302.2	291.9	298.8	302.2	305.7
45°	6683.2	5110.3	1514.5	449.9	360.6	305.7	271.3	271.3	274.7	274.7	274.7
47.5°	7497.2	5786.9	1813.3	446.5	333.1	274.7	247.3	250.7	250.7	254.1	254.1
50°	8266.5	6391.3	2115.6	456.8	309.1	247.3	226.7	226.7	226.7	230.1	226.7
52.5°	8908.7	6920.2	2431.5	473.9	285.1	226.7	206.1	206.1	206.1	209.5	206.1
55°	9516.6	7401.0	2754.3	498.0	264.4	209.5	188.9	182.0	182.0	185.5	182.0
57.5°	10011.1	7720.4	3060.0	501.4	247.3	192.3	175.2	164.8	164.8	164.8	164.8
60°	10031.7	7534.9	3149.3	439.6	226.7	175.2	158.0	144.2	147.7	147.7	147.7
62.5°	9375.7	6559.6	2531.1	329.7	202.6	158.0	144.2	130.5	130.5	130.5	130.5
65°	8087.9	5103.4	1483.6	261.0	175.2	140.8	127.1	116.8	116.8	116.8	113.3
66°	7483.4	4474.9	1136.8	237.0	164.8	137.4	123.6	113.3	109.9	106.5	106.5
67.5°	6497.8	3537.4	710.9	209.5	151.1	127.1	113.3	103.0	99.6	96.2	96.2
70°	4893.9	2246.1	346.9	161.4	130.5	109.9	99.6	89.3	85.9	82.4	79.0
72.5°	3434.3	1315.4	182.0	123.6	106.5	96.2	85.9	75.6	72.1	68.7	68.7
75°	1940.4	635.4	120.2	89.3	85.9	79.0	72.1	61.8	58.4	58.4	58.4
77.5°	734.9	219.8	82.4	65.3	68.7	61.8	51.5	51.5	48.1	51.5	48.1
80°	192.3	96.2	51.5	48.1	51.5	44.6	37.8	41.2	41.2	41.2	41.2
82.5°	103.0	54.9	30.9	34.3	30.9	30.9	24.0	27.5	30.9	27.5	30.9
85°	72.1	27.5	17.2	17.2	13.7	13.7	10.3	13.7	17.2	13.7	13.7
87.5°	37.8	10.3	10.3	10.3	10.3	6.9	3.4	0.0	3.4	3.4	3.4
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)