

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: P799730

Luminaire Tested: **ARCH2-50-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

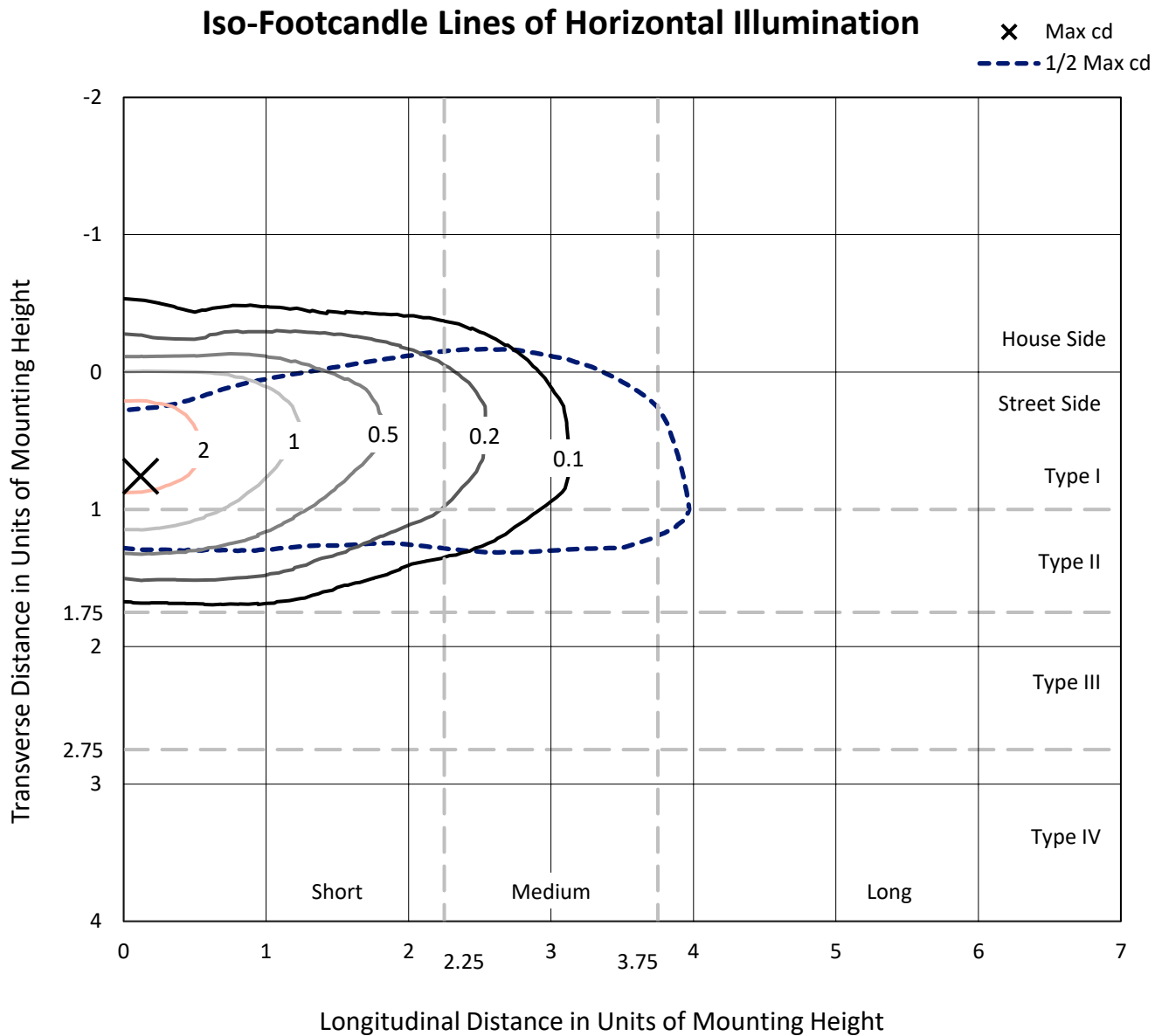
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4792 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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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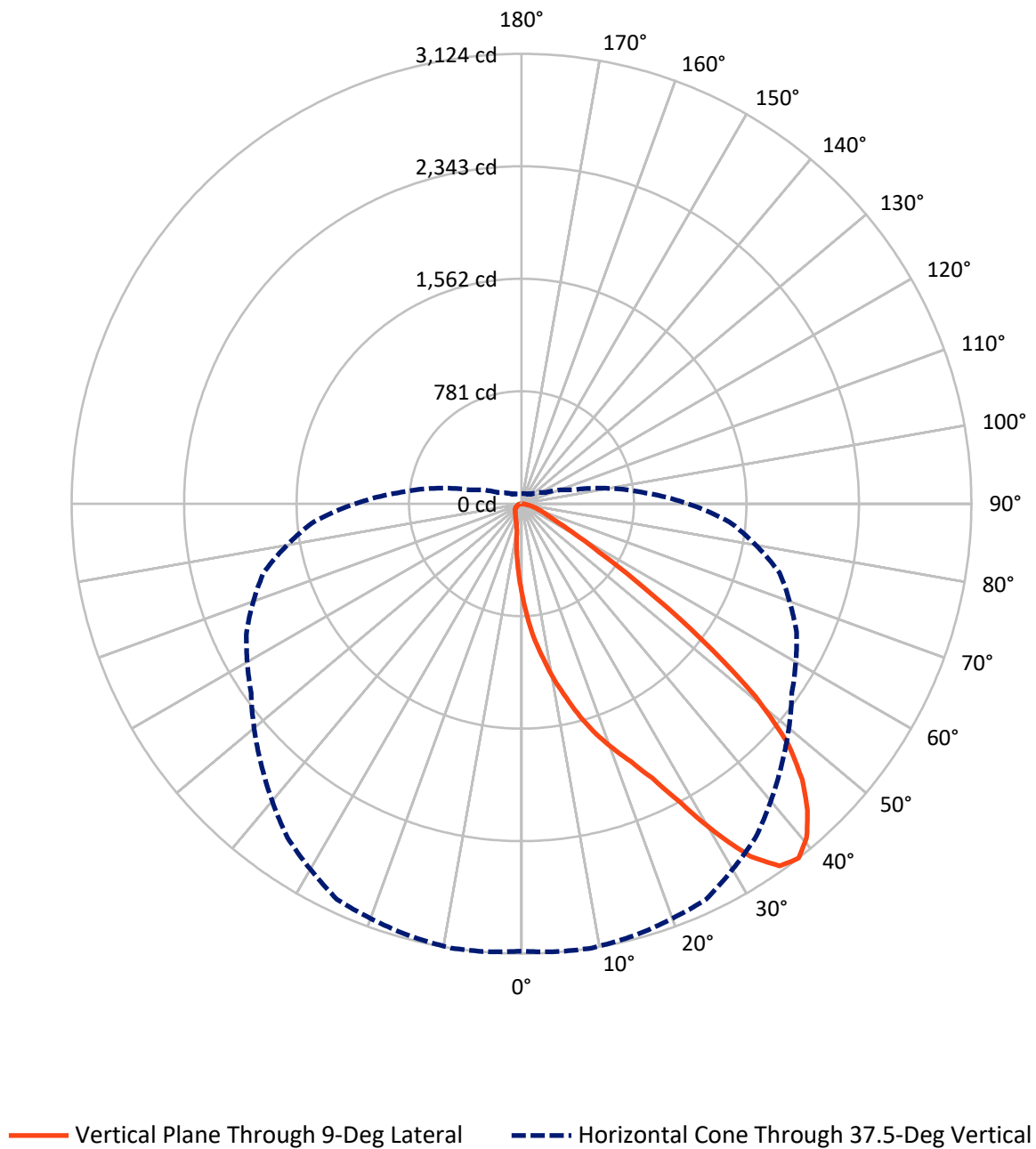


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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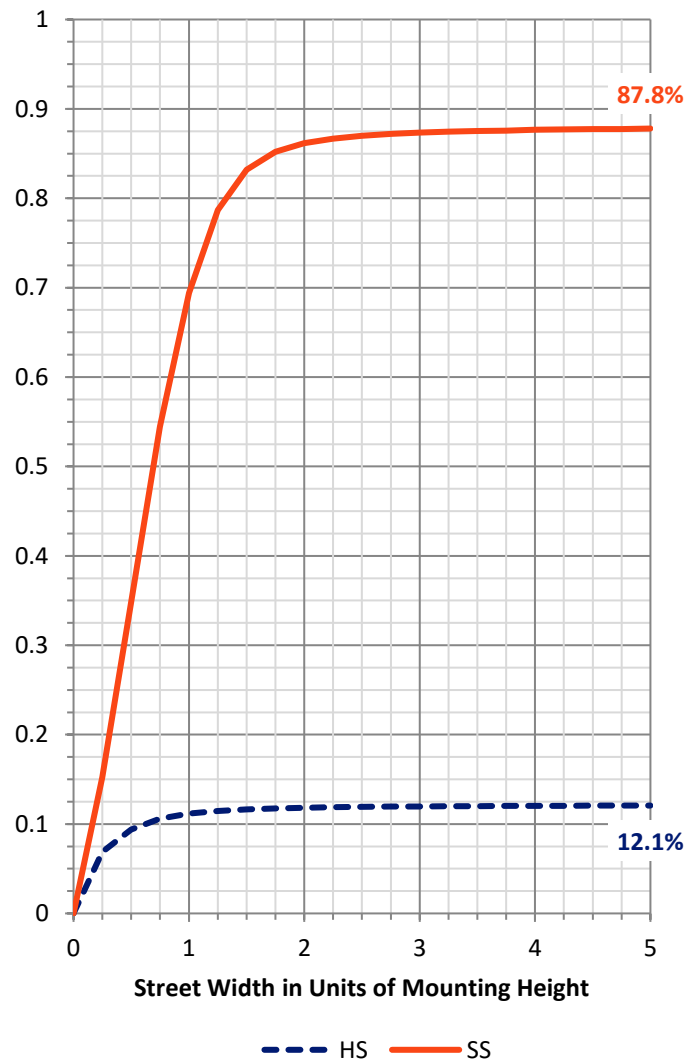
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.8	0.0	582.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4209.2	0.0	4209.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	4792.0	0.0	4792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.3
10°-20°	221.3	4.6
20°-30°	454.7	9.5
30°-40°	803.8	16.8
40°-50°	1067.7	22.3
50°-60°	1012.7	21.1
60°-70°	772.6	16.1
70°-80°	374.5	7.8
80°-90°	21.1	0.4
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°	4792.0	100.0
0°-180°	4792.0	100.0

Coefficient of Utilization



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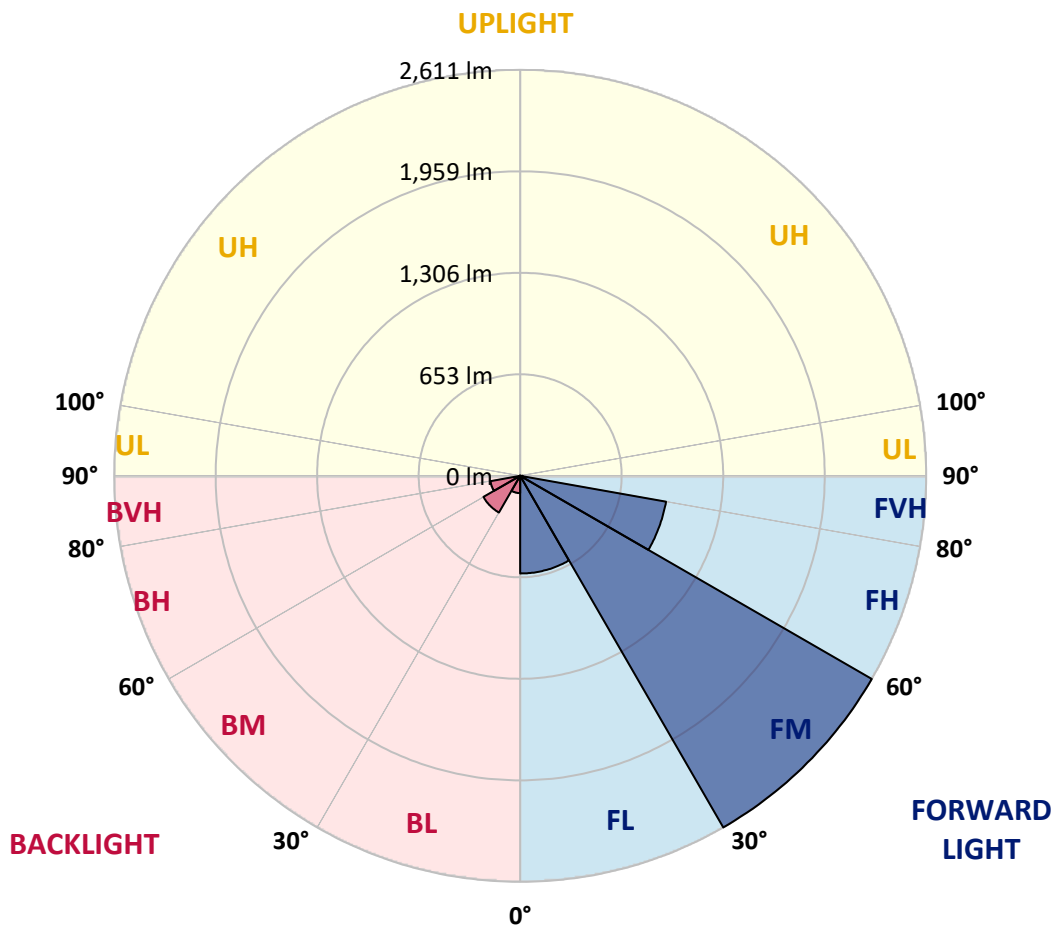
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.5	13.1			
FM	(30°-60°)	2611.4	54.5			
FH	(60°-80°)	952.6	19.9			G1/1800
FVH	(80°-90°)	16.7	0.3			G1/100
BL	(0°-30°)	111.2	2.3	B1/500		
BM	(30°-60°)	272.7	5.7	B1/1000		
BH	(60°-80°)	194.5	4.1	B1/500		G1/500
BVH	(80°-90°)	4.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4
2.5°	784.9	771.1	786.9	784.9	771.1	762.3	734.8	725.9	693.4	669.8	649.2
5°	946.2	932.5	946.2	942.3	922.6	901.0	855.7	826.2	768.2	717.1	670.8
7.5°	1080.0	1080.0	1085.9	1086.9	1063.3	1029.8	973.8	929.5	847.9	769.2	695.4
10°	1224.6	1225.6	1238.4	1229.5	1198.0	1152.8	1082.0	1025.9	927.5	824.3	719.0
12.5°	1379.0	1380.0	1383.9	1380.0	1342.6	1284.6	1199.0	1125.2	1012.1	887.2	751.5
15°	1533.4	1534.4	1539.3	1532.5	1491.2	1423.3	1325.9	1235.4	1101.6	958.0	790.8
17.5°	1678.0	1680.0	1683.9	1675.1	1631.8	1551.2	1451.8	1342.6	1197.1	1033.8	835.1
20°	1807.9	1809.8	1812.8	1801.0	1757.7	1677.1	1569.8	1455.7	1294.4	1111.5	883.3
22.5°	1938.7	1940.7	1945.6	1929.8	1881.6	1789.2	1683.9	1565.9	1397.7	1197.1	939.3
25°	2105.9	2107.9	2111.8	2089.2	2023.3	1915.1	1803.9	1683.0	1509.8	1293.4	1008.2
27.5°	2350.8	2348.9	2348.9	2307.5	2194.4	2053.8	1924.9	1802.0	1630.8	1396.7	1083.9
30°	2653.8	2648.9	2645.9	2589.8	2428.5	2210.2	2048.9	1913.1	1746.9	1505.9	1165.6
32.5°	2925.3	2925.3	2919.4	2860.3	2689.2	2420.7	2180.7	2021.3	1859.0	1616.1	1250.2
35°	3085.6	3092.5	3089.5	3045.3	2920.3	2646.9	2358.7	2151.2	1977.1	1731.2	1351.5
37.5°	3107.2	3121.0	3123.9	3097.4	3031.5	2831.8	2556.4	2291.8	2106.9	1855.1	1449.8
40°	3019.7	3049.2	3049.2	3045.3	3021.6	2919.4	2722.6	2455.1	2240.7	1983.9	1549.2
42.5°	2884.9	2915.4	2911.5	2926.2	2920.3	2898.7	2816.1	2607.5	2374.4	2116.7	1639.7
45°	2708.9	2740.3	2732.5	2759.0	2770.8	2794.4	2806.2	2713.8	2506.2	2261.3	1741.0
47.5°	2426.6	2479.7	2491.5	2538.7	2587.9	2661.6	2717.7	2752.1	2629.2	2416.7	1851.2
50°	2009.5	2084.3	2107.9	2207.2	2342.0	2494.4	2584.9	2704.9	2715.7	2576.1	1970.2
52.5°	1439.0	1525.6	1562.0	1725.3	2002.6	2268.2	2431.5	2600.7	2749.2	2728.5	2099.0
55°	930.5	1004.3	1039.7	1193.1	1562.0	1979.0	2250.5	2465.9	2730.5	2868.2	2246.6
57.5°	573.4	615.7	639.3	771.1	1110.5	1608.2	2013.4	2342.0	2673.5	2989.2	2400.0
60°	386.6	411.1	423.0	484.9	754.4	1202.0	1687.9	2212.1	2598.7	3070.8	2539.7
62.5°	256.7	264.6	276.4	314.8	497.7	843.9	1296.4	1980.0	2542.6	3075.7	2643.0
65°	198.7	202.6	207.5	224.3	306.9	590.2	911.8	1604.3	2459.0	2971.5	2675.4
67.5°	156.4	160.3	166.2	175.1	222.3	400.3	620.7	1175.4	2287.9	2808.2	2622.3
70°	123.0	125.9	129.8	137.7	173.1	290.2	410.2	781.0	1942.6	2652.8	2455.1
72.5°	97.4	100.3	104.3	112.1	140.7	212.5	281.3	486.9	1498.0	2463.0	2133.4
75°	76.7	78.7	81.6	89.5	113.1	165.2	190.8	291.1	1018.0	2115.7	1662.3
77.5°	38.4	47.2	54.1	62.0	82.6	114.1	126.9	161.3	429.8	1085.9	792.8
80°	22.6	27.5	29.5	34.4	54.1	68.9	68.9	64.9	135.7	417.1	323.6
82.5°	12.8	17.7	18.7	19.7	32.5	39.3	31.5	23.6	27.5	139.7	94.4
85°	3.9	5.9	6.9	7.9	10.8	11.8	10.8	9.8	7.9	13.8	8.9
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0
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°	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4
2.5°	637.4	624.6	600.0	577.4	555.7	540.0	525.2	511.5	501.6	493.8	492.8
5°	646.2	620.7	573.4	529.2	488.9	455.4	426.9	404.3	387.5	375.7	374.8
7.5°	658.0	618.7	546.9	481.0	421.0	372.8	331.5	301.0	279.3	270.5	263.6
10°	667.9	616.7	520.3	432.8	354.1	293.1	243.9	213.4	197.7	191.8	188.9
12.5°	684.6	618.7	497.7	388.5	296.1	224.3	186.9	170.2	163.3	158.4	157.4
15°	709.2	627.5	476.1	345.2	237.0	181.0	159.3	148.5	141.6	140.7	139.7
17.5°	733.8	635.4	456.4	301.0	196.7	157.4	142.6	133.8	128.9	127.9	127.9
20°	762.3	645.2	434.8	258.7	168.2	141.6	129.8	123.0	117.0	116.1	116.1
22.5°	795.7	659.0	414.1	221.3	149.5	129.8	120.0	112.1	107.2	106.2	106.2
25°	841.0	679.7	397.4	193.8	136.7	120.0	111.1	104.3	100.3	98.4	98.4
27.5°	891.2	708.2	385.6	177.0	127.9	112.1	103.3	97.4	93.4	91.5	91.5
30°	947.2	739.7	377.7	170.2	123.0	105.2	97.4	91.5	86.6	85.6	85.6
32.5°	1009.2	776.1	372.8	171.1	122.0	100.3	91.5	85.6	81.6	79.7	79.7
35°	1078.0	816.4	369.8	177.0	123.9	96.4	86.6	80.7	76.7	74.8	74.8
37.5°	1154.8	863.6	369.8	183.0	128.9	95.4	81.6	75.7	72.8	70.8	70.8
40°	1226.6	913.8	373.8	189.8	133.8	95.4	77.7	72.8	68.9	66.9	66.9
42.5°	1282.6	942.3	376.7	196.7	136.7	94.4	73.8	68.9	65.9	63.9	63.9
45°	1346.6	972.8	370.8	199.7	136.7	92.5	70.8	65.9	63.0	61.0	61.0
47.5°	1417.4	1010.2	369.8	201.6	133.8	88.5	67.9	63.0	61.0	59.0	59.0
50°	1489.2	1051.5	371.8	200.7	129.8	82.6	63.9	61.0	58.0	56.1	56.1
52.5°	1570.8	1094.8	375.7	198.7	121.0	75.7	61.0	58.0	55.1	53.1	52.1
55°	1661.3	1142.0	383.6	194.8	109.2	68.9	58.0	55.1	51.1	49.2	48.2
57.5°	1765.6	1200.0	392.5	186.9	96.4	63.0	55.1	51.1	45.2	42.3	41.3
60°	1864.9	1265.9	402.3	168.2	83.6	57.0	52.1	46.2	40.3	38.4	37.4
62.5°	1958.4	1330.8	407.2	134.8	70.8	52.1	49.2	42.3	36.4	34.4	33.4
65°	2018.4	1401.6	396.4	91.5	58.0	48.2	45.2	39.3	33.4	30.5	30.5
67.5°	2022.3	1435.1	359.0	60.0	47.2	43.3	41.3	35.4	29.5	27.5	26.6
70°	1923.0	1384.9	274.4	47.2	39.3	37.4	37.4	31.5	25.6	23.6	22.6
72.5°	1694.8	1226.6	175.1	38.4	33.4	31.5	31.5	26.6	22.6	19.7	18.7
75°	1337.7	946.2	93.4	31.5	27.5	26.6	24.6	21.6	18.7	16.7	15.7
77.5°	614.8	417.1	43.3	22.6	20.7	20.7	18.7	15.7	14.8	12.8	12.8
80°	243.0	141.6	21.6	14.8	13.8	13.8	13.8	10.8	10.8	8.9	7.9
82.5°	66.9	29.5	10.8	8.9	8.9	8.9	7.9	6.9	6.9	5.9	5.9
85°	6.9	4.9	4.9	4.9	4.9	3.9	3.9	3.0	2.0	2.0	2.0
87.5°	3.0	3.0	3.0	3.0	3.0	2.0	1.0	0.0	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)