

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: P1210392

Luminaire Tested: **ARCH3-110-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11422 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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



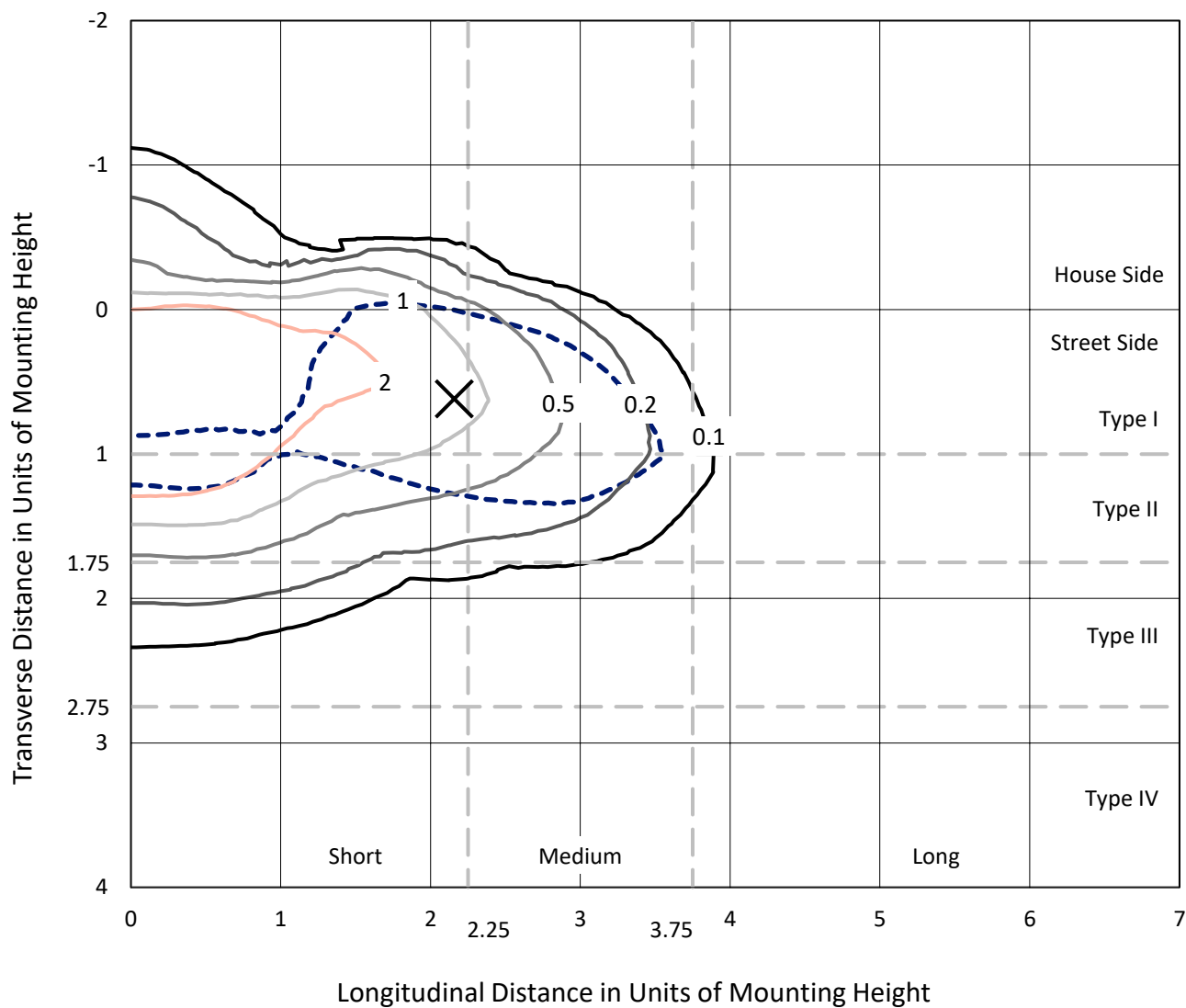
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

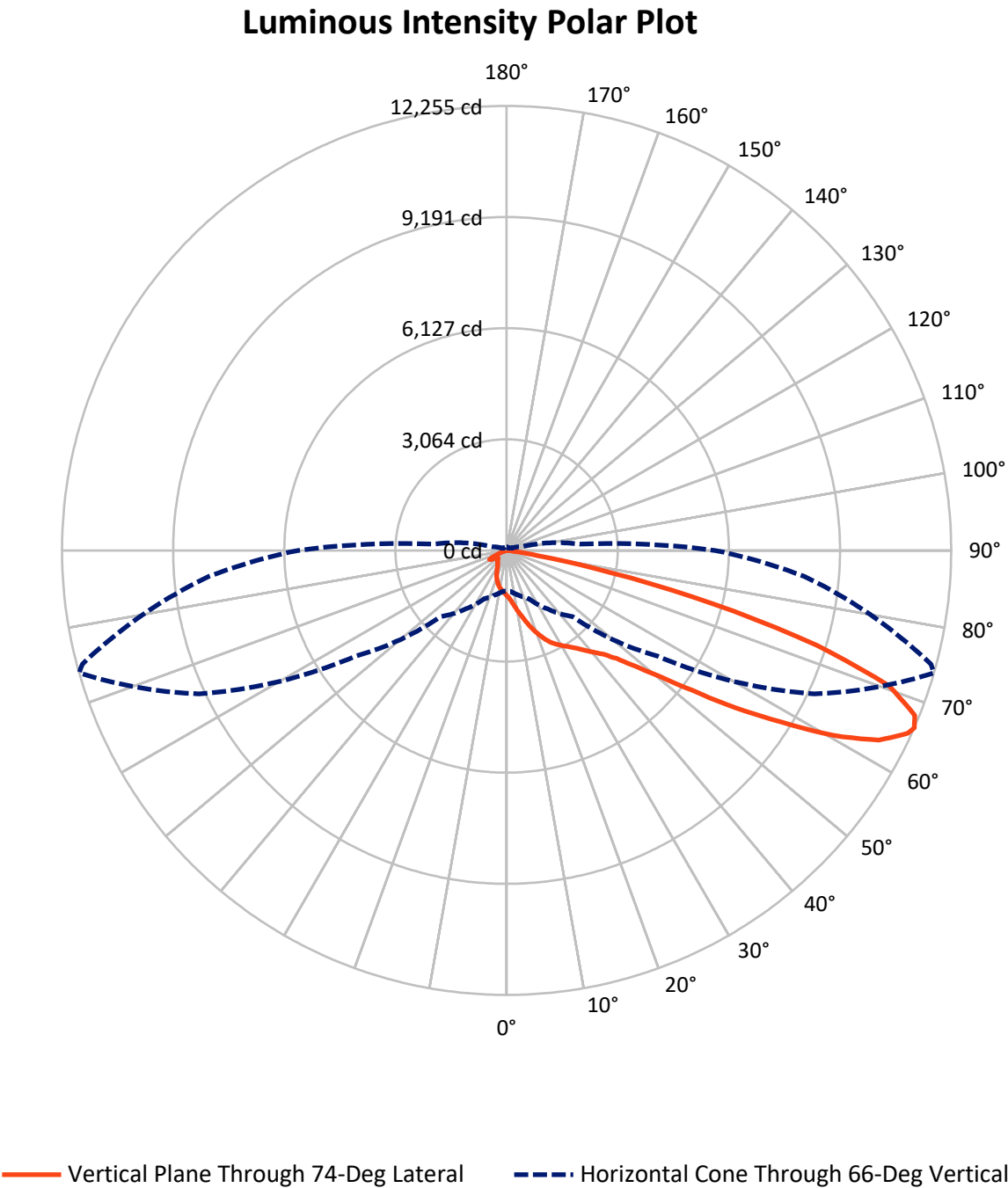
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type II - Short - N/A

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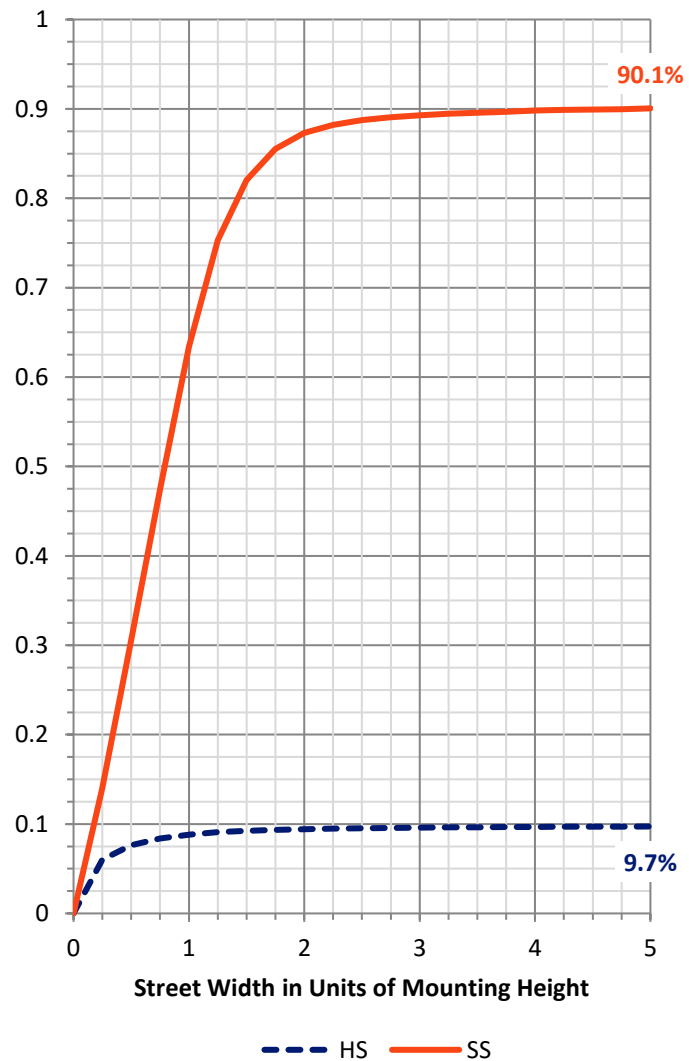
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.7	0.0	1119.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10302.3	0.0	10302.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	11422.0	0.0	11422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	1.1
10°-20°	390.1	3.4
20°-30°	744.6	6.5
30°-40°	1305.0	11.4
40°-50°	2237.8	19.6
50°-60°	2910.4	25.5
60°-70°	2634.6	23.1
70°-80°	1016.6	8.9
80°-90°	61.2	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°	11422.0	100.0
0°-180°	11422.0	100.0

Coefficient of Utilization



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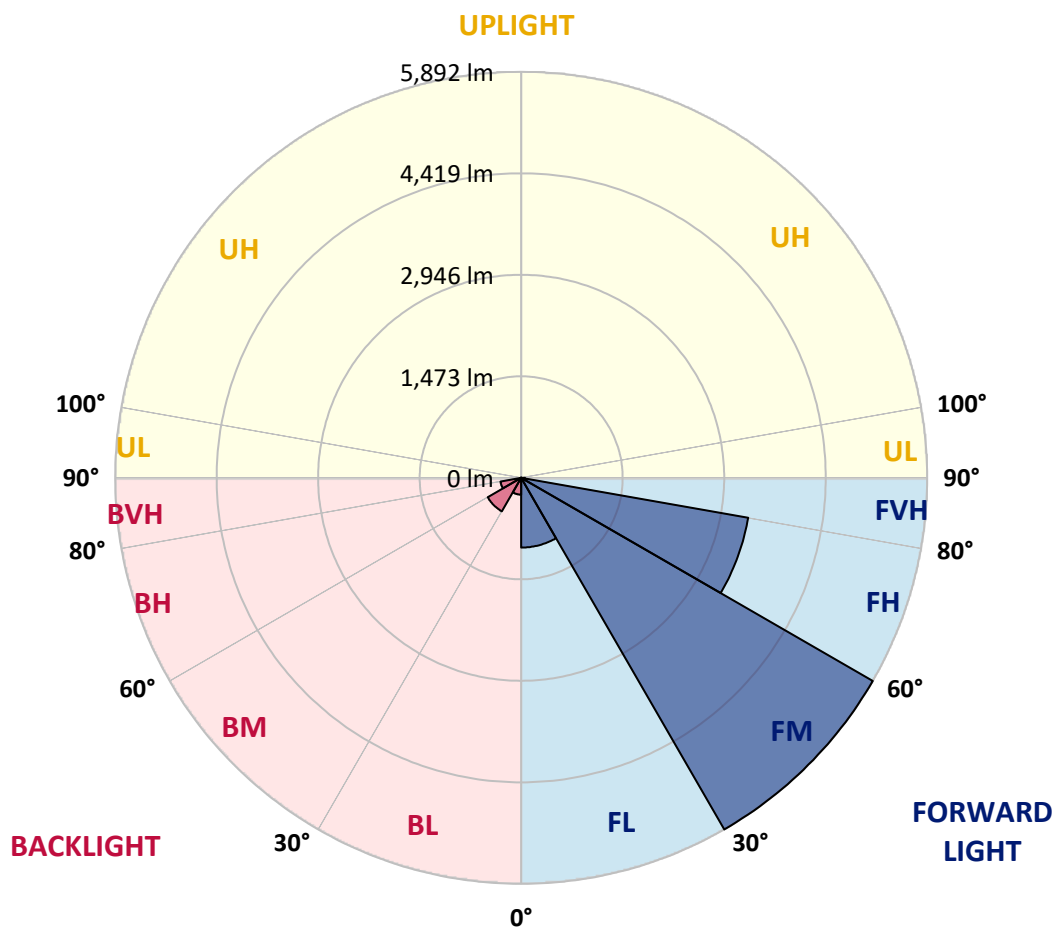
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.2	8.9			
FM	(30°-60°)	5892.0	51.6			
FH	(60°-80°)	3345.1	29.3			G2/5000
FVH	(80°-90°)	53.0	0.5			G1/100
BL	(0°-30°)	244.2	2.1	B1/500		
BM	(30°-60°)	561.2	4.9	B1/1000		
BH	(60°-80°)	306.1	2.7	B1/500		G1/500
BVH	(80°-90°)	8.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1497.0	1484.7	1462.1	1460.1	1441.6	1419.1	1380.1	1339.1	1310.4	1306.3	1271.4
5°	1792.3	1786.1	1763.6	1749.2	1714.4	1661.0	1570.8	1480.6	1404.7	1396.5	1318.6
7.5°	1870.2	1874.3	1878.4	1892.8	1880.5	1855.9	1788.2	1661.0	1542.1	1523.7	1388.3
10°	1882.5	1878.4	1878.4	1896.9	1931.7	1966.6	1958.4	1849.7	1695.9	1673.4	1484.7
12.5°	2015.8	2022.0	2007.6	1999.4	1993.3	2011.7	2073.2	2026.1	1857.9	1839.5	1601.6
15°	2188.1	2186.0	2165.5	2165.5	2147.1	2116.3	2155.3	2190.1	2052.7	2030.2	1734.9
17.5°	2313.2	2321.4	2319.3	2331.6	2325.5	2284.5	2263.9	2335.7	2253.7	2225.0	1886.6
20°	2413.6	2436.2	2444.4	2483.4	2501.8	2473.1	2419.8	2464.9	2446.5	2419.8	2040.4
22.5°	2520.3	2538.7	2553.1	2620.8	2672.0	2665.9	2598.2	2588.0	2633.1	2608.5	2192.2
25°	2626.9	2635.1	2678.2	2760.2	2842.2	2862.7	2793.0	2713.0	2801.2	2778.7	2327.5
27.5°	2743.8	2747.9	2799.2	2899.7	3014.5	3057.6	3002.2	2854.5	2930.4	2930.4	2450.6
30°	2957.1	2998.1	3018.6	3108.8	3209.3	3268.8	3203.2	3004.2	3045.3	3063.7	2579.7
32.5°	3416.4	3422.6	3416.4	3455.4	3475.9	3510.8	3434.9	3172.4	3162.1	3182.6	2706.9
35°	4117.8	4093.1	4027.5	3970.1	3851.2	3785.5	3687.1	3387.7	3305.7	3334.4	2832.0
37.5°	4968.8	4933.9	4784.2	4607.9	4353.6	4091.1	3968.1	3650.2	3488.2	3525.1	2967.3
40°	5780.9	5758.3	5579.9	5362.5	4927.8	4478.7	4218.2	3871.7	3691.2	3705.6	3104.7
42.5°	6449.4	6445.3	6295.6	6067.9	5510.2	4897.0	4513.5	4089.0	3904.5	3927.0	3248.3
45°	6955.9	6916.9	6806.2	6642.1	6074.1	5331.8	4870.4	4419.2	4246.9	4273.6	3463.6
47.5°	6955.9	6962.0	7033.8	7017.4	6467.8	5739.8	5260.0	4835.5	4753.5	4778.1	3818.4
50°	6389.9	6447.3	6767.2	7035.9	6672.9	6057.7	5680.4	5356.4	5440.4	5477.4	4437.7
52.5°	5270.2	5366.6	5922.3	6535.5	6521.1	6217.6	6115.1	6018.7	6396.1	6461.7	5352.3
55°	4005.0	4068.5	4792.4	5598.3	5860.8	6086.4	6494.5	6859.5	7661.3	7647.0	6281.2
57.5°	2991.9	3051.4	3674.8	4568.9	4915.5	5518.4	6689.3	7821.3	8916.3	8971.7	7152.8
60°	2200.4	2245.5	2776.6	3510.8	4011.1	4648.9	6611.4	8768.7	10362.1	10298.5	7921.8
62.5°	1628.2	1652.8	2036.3	2514.1	3178.5	3787.6	6121.3	9416.7	11516.6	11387.4	8350.3
65°	1259.1	1267.3	1466.2	1720.5	2311.1	2944.8	5391.2	9515.1	12154.3	12017.0	8342.1
66°	1121.7	1127.9	1273.5	1470.3	1966.6	2577.7	5071.3	9357.2	12254.8	12109.2	8239.6
67.5°	941.3	937.2	1023.3	1152.5	1476.5	1989.2	4503.3	8895.8	12135.9	12062.1	7911.5
70°	697.2	699.3	742.3	773.1	863.3	1101.2	3252.4	7716.7	11184.4	11180.3	7011.3
72.5°	516.8	522.9	555.7	561.9	539.3	596.7	1874.3	6137.7	8947.1	8949.1	5241.5
75°	387.6	397.8	408.1	412.2	391.7	377.3	846.9	4130.1	5885.4	5842.4	2967.3
77.5°	295.3	299.4	307.6	301.4	297.3	260.4	352.7	2013.8	2905.8	2647.4	961.8
80°	215.3	215.3	223.5	215.3	213.3	186.6	192.8	646.0	853.1	709.5	207.1
82.5°	135.3	133.3	139.4	137.4	133.3	118.9	112.8	180.5	196.9	176.4	100.5
85°	75.9	73.8	71.8	69.7	63.6	53.3	61.5	67.7	90.2	92.3	71.8
87.5°	26.7	26.7	24.6	22.6	18.5	18.5	22.6	22.6	32.8	32.8	36.9
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°	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1255.0	1232.5	1199.6	1156.6	1125.8	1095.1	1062.2	1043.8	1017.1	1011.0	1019.2
5°	1277.6	1236.6	1154.5	1064.3	986.4	916.7	851.0	812.1	773.1	758.7	764.9
7.5°	1324.7	1255.0	1115.6	970.0	840.8	736.2	658.3	613.2	578.3	563.9	568.0
10°	1394.5	1287.8	1078.7	863.3	697.2	586.5	520.9	492.2	471.7	463.5	465.5
12.5°	1478.5	1335.0	1031.5	756.7	574.2	477.8	447.0	440.9	436.8	432.7	434.7
15°	1572.9	1376.0	976.1	652.1	477.8	424.5	414.2	412.2	410.1	410.1	410.1
17.5°	1671.3	1412.9	914.6	553.7	416.3	391.7	385.5	385.5	385.5	387.6	387.6
20°	1763.6	1441.6	842.8	465.5	381.4	360.9	356.8	356.8	358.9	360.9	360.9
22.5°	1853.8	1453.9	758.7	404.0	352.7	334.3	328.1	328.1	328.1	330.2	330.2
25°	1931.7	1453.9	674.7	365.0	328.1	309.7	301.4	299.4	301.4	301.4	301.4
27.5°	1997.4	1447.8	592.6	338.4	303.5	285.0	276.8	274.8	278.9	280.9	280.9
30°	2067.1	1439.6	527.0	313.8	283.0	264.5	256.3	256.3	262.5	270.7	270.7
32.5°	2134.8	1445.7	475.8	293.2	262.5	248.1	239.9	242.0	254.3	266.6	266.6
35°	2206.5	1458.0	445.0	278.9	248.1	233.8	227.6	233.8	246.1	258.4	258.4
37.5°	2278.3	1472.4	426.5	266.6	235.8	221.5	217.4	225.6	239.9	252.2	254.3
40°	2354.2	1484.7	406.0	254.3	227.6	211.2	209.2	217.4	235.8	248.1	250.2
42.5°	2448.5	1509.3	381.4	244.0	219.4	198.9	201.0	207.1	225.6	244.0	246.1
45°	2633.1	1587.2	356.8	233.8	209.2	192.8	188.7	192.8	213.3	233.8	237.9
47.5°	2979.6	1763.6	330.2	223.5	198.9	188.7	172.3	176.4	194.8	217.4	219.4
50°	3644.0	2138.9	315.8	213.3	190.7	174.3	155.9	155.9	170.2	190.7	190.7
52.5°	4679.6	2811.5	324.0	205.1	180.5	160.0	141.5	139.4	147.6	162.0	162.0
55°	5797.3	3549.7	354.8	196.9	168.2	151.7	131.2	121.0	127.1	135.3	135.3
57.5°	6683.1	3920.9	438.8	192.8	153.8	145.6	118.9	104.6	110.7	118.9	118.9
60°	7072.8	3703.5	533.2	196.9	143.5	135.3	106.6	92.3	102.5	110.7	112.8
62.5°	6757.0	3049.4	572.1	186.6	129.2	121.0	104.6	86.1	98.4	104.6	106.6
65°	6074.1	2317.3	447.0	162.0	118.9	104.6	94.3	82.0	92.3	98.4	98.4
66°	5750.1	2019.9	381.4	149.7	114.8	98.4	90.2	82.0	90.2	94.3	96.4
67.5°	5247.7	1593.4	283.0	131.2	106.6	90.2	84.1	77.9	86.1	90.2	90.2
70°	4103.4	949.5	170.2	102.5	92.3	80.0	75.9	71.8	77.9	80.0	80.0
72.5°	2569.5	451.1	108.7	75.9	77.9	75.9	63.6	67.7	69.7	71.8	71.8
75°	1244.8	178.4	73.8	55.4	63.6	71.8	51.3	59.5	61.5	65.6	63.6
77.5°	346.6	86.1	47.2	41.0	55.4	55.4	39.0	47.2	55.4	69.7	63.6
80°	100.5	55.4	30.8	30.8	39.0	39.0	26.7	32.8	36.9	41.0	43.1
82.5°	69.7	36.9	20.5	22.6	22.6	24.6	16.4	16.4	20.5	20.5	22.6
85°	55.4	16.4	12.3	14.4	10.3	12.3	8.2	8.2	10.3	8.2	8.2
87.5°	22.6	8.2	8.2	8.2	6.2	6.2	4.1	2.1	2.1	2.1	2.1
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)