

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: P1211686

Luminaire Tested: **ARCH4-80-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211686
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: ARCH4-80-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 685mA 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: 10418 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

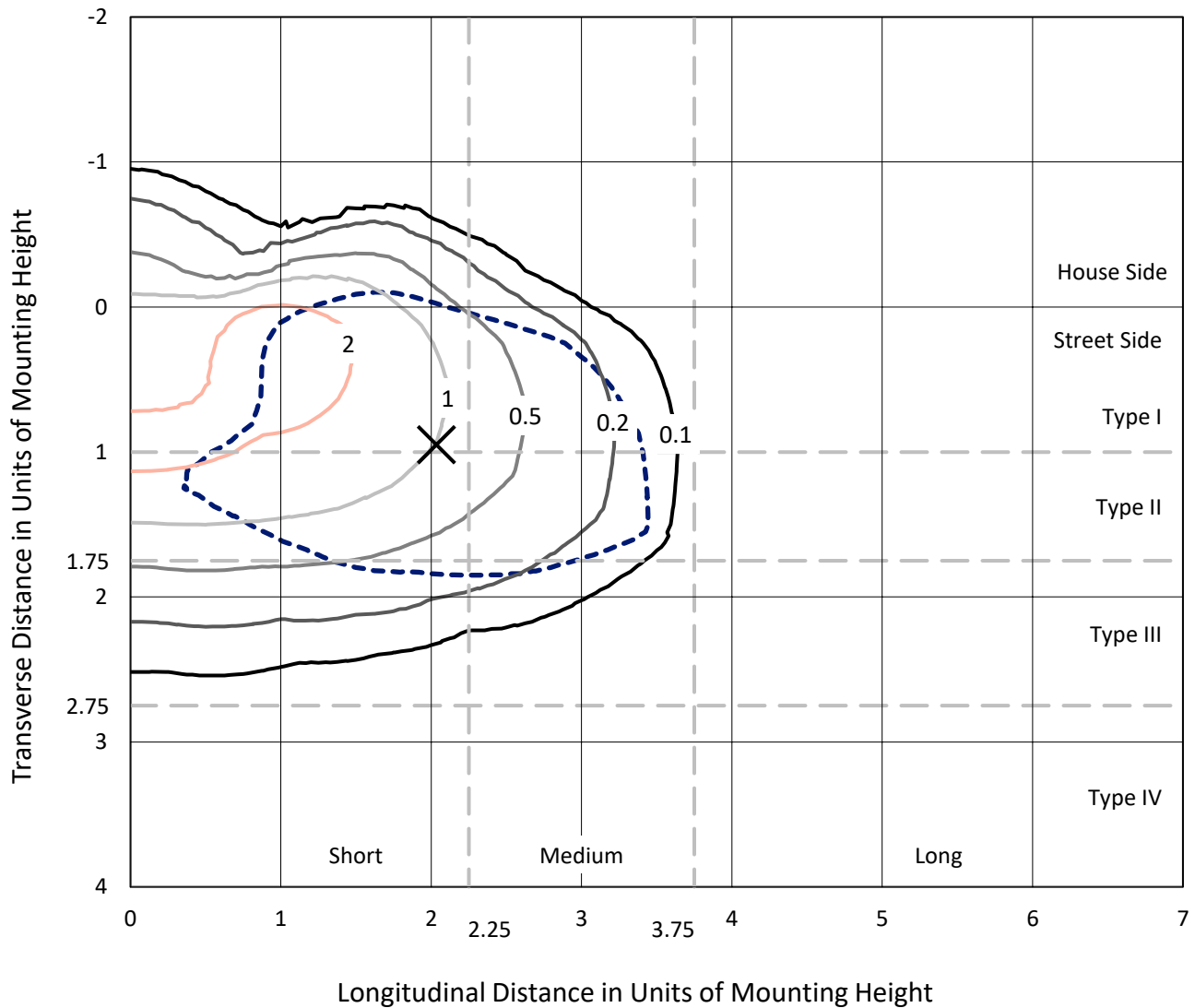
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

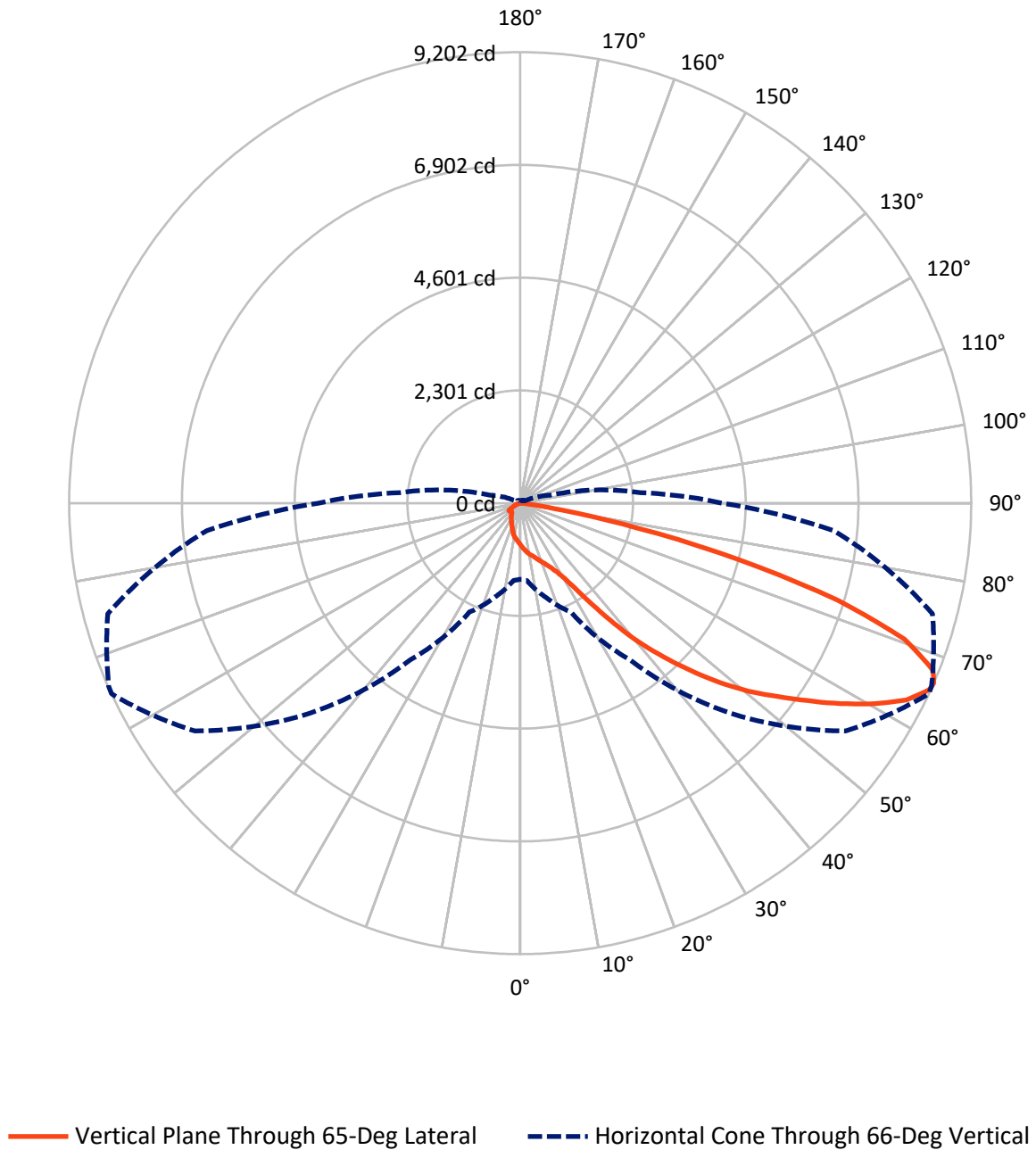
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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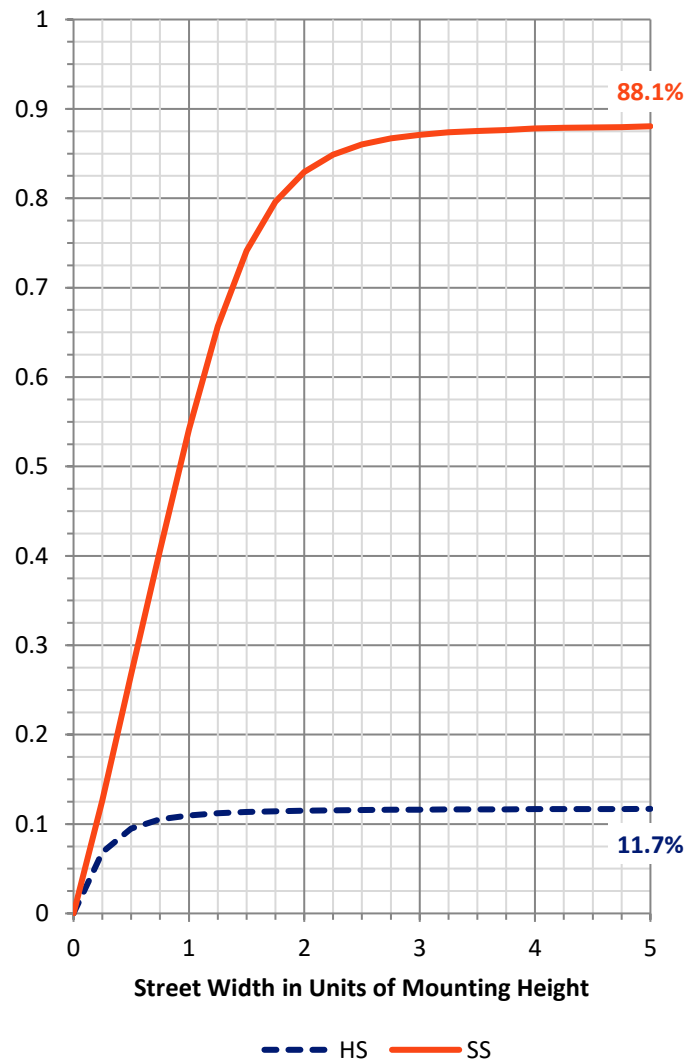
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.5	0.0	1229.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9188.5	0.0	9188.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	10418.0	0.0	10418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	0.8
10°-20°	238.2	2.3
20°-30°	436.0	4.2
30°-40°	885.9	8.5
40°-50°	1870.8	18.0
50°-60°	2876.0	27.6
60°-70°	2894.9	27.8
70°-80°	1081.7	10.4
80°-90°	54.0	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°	10418.0	100.0
0°-180°	10418.0	100.0

Coefficient of Utilization



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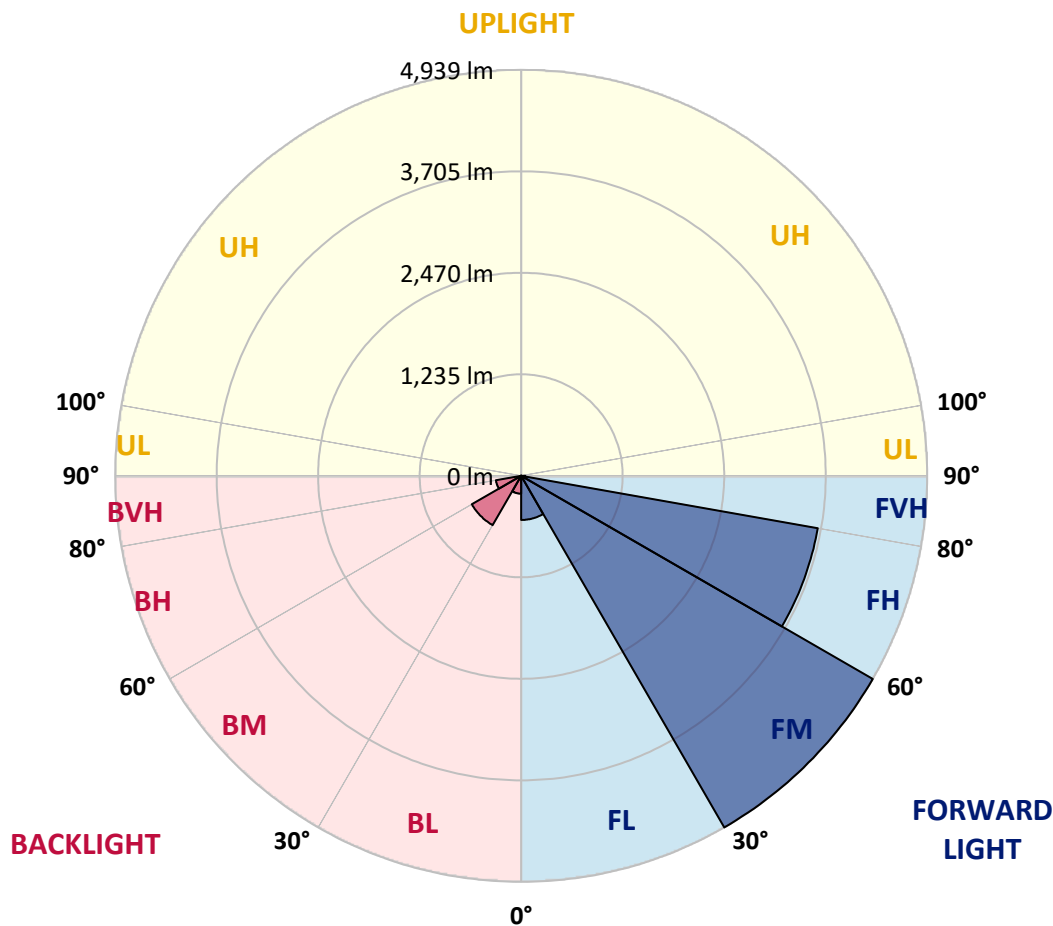
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.0	5.2			
FM	(30°-60°)	4939.5	47.4			
FH	(60°-80°)	3664.3	35.2			G2/5000
FVH	(80°-90°)	47.7	0.5			G1/100
BL	(0°-30°)	217.6	2.1	B1/500		
BM	(30°-60°)	693.2	6.7	B1/1000		
BH	(60°-80°)	312.3	3.0	B1/500		G1/500
BVH	(80°-90°)	6.4	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8
2.5°	967.9	969.8	966.0	958.4	950.9	941.4	926.3	901.7	897.9	880.9	862.0
5°	1034.0	1037.8	1032.1	1030.2	1026.5	1013.2	992.4	956.5	952.7	918.7	875.2
7.5°	1056.7	1062.4	1058.6	1058.6	1058.6	1052.9	1043.5	1011.3	1005.7	962.2	896.0
10°	1073.7	1077.5	1075.6	1083.2	1088.9	1085.1	1079.4	1060.5	1054.8	1011.3	924.4
12.5°	1100.2	1102.1	1104.0	1107.8	1117.2	1121.0	1119.1	1102.1	1098.3	1068.1	960.3
15°	1124.8	1124.8	1126.7	1143.7	1156.9	1164.5	1166.4	1153.1	1149.3	1124.8	1005.7
17.5°	1147.5	1149.3	1155.0	1173.9	1196.6	1211.7	1221.2	1215.5	1209.8	1190.9	1058.6
20°	1181.5	1185.3	1190.9	1217.4	1240.1	1264.7	1283.6	1281.7	1279.8	1266.5	1121.0
22.5°	1240.1	1243.9	1253.3	1277.9	1300.6	1330.8	1363.0	1361.1	1355.4	1345.9	1194.7
25°	1328.9	1328.9	1334.6	1355.4	1383.7	1419.7	1449.9	1455.6	1449.9	1444.2	1287.3
27.5°	1440.5	1442.3	1442.3	1465.0	1491.5	1536.9	1574.7	1580.3	1580.3	1574.7	1412.1
30°	1595.5	1589.8	1586.0	1604.9	1633.3	1699.4	1765.6	1776.9	1771.3	1780.7	1587.9
32.5°	1862.0	1852.6	1820.4	1824.2	1841.2	1932.0	2043.5	2083.2	2081.3	2098.3	1871.5
35°	2230.6	2211.7	2164.5	2124.8	2122.9	2221.2	2391.3	2540.7	2538.8	2597.4	2302.5
37.5°	2646.5	2671.1	2582.2	2514.2	2493.4	2570.9	2790.2	3113.4	3130.4	3232.5	2867.7
40°	3202.3	3217.4	3104.0	3007.6	2909.3	2937.6	3226.9	3729.7	3759.9	3873.4	3432.9
42.5°	3686.2	3701.3	3635.2	3518.0	3393.2	3340.3	3667.3	4289.2	4313.8	4470.7	4015.1
45°	4015.1	4026.5	4049.2	4060.5	3918.7	3809.1	4206.1	4863.9	4894.2	5075.6	4584.1
47.5°	4272.2	4281.7	4327.0	4440.5	4412.1	4325.2	4754.3	5461.3	5468.8	5671.1	5138.0
50°	4391.3	4414.0	4525.5	4699.4	4824.2	4848.8	5349.7	6026.5	6047.3	6240.1	5661.6
52.5°	4259.0	4266.6	4548.2	4875.3	5126.7	5376.2	5947.1	6550.1	6610.6	6754.3	6132.3
55°	3812.9	3867.7	4294.9	4869.6	5364.9	5877.1	6586.0	7115.3	7170.2	7260.9	6546.3
57.5°	3294.9	3355.4	3875.2	4625.7	5466.9	6340.3	7177.7	7716.5	7754.3	7778.9	6926.3
60°	2846.9	2903.6	3438.6	4158.8	5364.9	6667.3	7727.8	8313.8	8346.0	8279.8	7117.2
62.5°	2296.8	2353.5	2892.3	3540.7	4964.1	6733.5	8136.1	8845.0	8858.3	8678.7	7000.0
65°	1731.6	1769.4	2219.3	2775.1	4262.8	6381.9	8228.8	9175.8	9162.6	8794.0	6648.4
66°	1552.0	1584.1	1981.1	2453.7	3897.9	6060.5	8104.0	9202.3	9189.1	8708.9	6417.8
67.5°	1338.4	1347.8	1674.9	2007.6	3260.9	5378.1	7724.0	9081.3	9092.7	8474.5	5996.2
70°	1045.4	1043.5	1232.5	1397.0	2226.8	3826.1	6442.4	8319.5	8374.3	7589.8	5113.4
72.5°	669.2	646.5	756.1	854.4	1296.8	2221.2	4697.6	6780.7	6873.4	5962.2	3809.1
75°	398.9	376.2	402.6	427.2	621.9	1068.1	2761.8	4614.4	4703.2	3822.3	2266.5
77.5°	298.7	289.2	291.1	270.3	276.0	400.8	1260.9	2438.6	2502.8	1565.2	860.1
80°	228.7	204.2	190.9	200.4	181.5	158.8	468.8	839.3	879.0	370.5	179.6
82.5°	153.1	132.3	122.9	134.2	115.3	88.8	113.4	162.6	158.8	100.2	69.9
85°	79.4	68.1	68.1	68.1	58.6	43.5	49.1	66.2	66.2	52.9	41.6
87.5°	22.7	20.8	24.6	22.7	17.0	17.0	18.9	22.7	22.7	20.8	18.9
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°	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8	848.8
2.5°	846.9	839.3	818.5	803.4	788.3	775.0	759.9	756.1	748.6	750.5	746.7
5°	852.6	831.8	795.8	761.8	735.4	712.7	684.3	673.0	657.8	652.2	648.4
7.5°	860.1	829.9	776.9	729.7	684.3	638.9	593.6	567.1	550.1	542.5	536.9
10°	877.1	837.4	767.5	693.8	616.3	552.0	506.6	487.7	476.4	474.5	472.6
12.5°	899.8	848.8	758.0	648.4	546.3	485.8	457.5	451.8	449.9	449.9	448.0
15°	933.8	867.7	742.9	595.5	491.5	449.9	436.7	427.2	423.4	423.4	423.4
17.5°	967.9	890.4	720.2	540.6	453.7	427.2	414.0	408.3	404.5	406.4	404.5
20°	1011.3	916.8	690.0	493.4	429.1	408.3	395.1	389.4	387.5	387.5	387.5
22.5°	1060.5	947.1	652.2	457.5	408.3	389.4	376.2	370.5	366.7	368.6	368.6
25°	1126.7	984.9	612.5	421.6	387.5	370.5	355.4	347.8	347.8	349.7	351.6
27.5°	1211.7	1030.2	572.8	398.9	368.6	351.6	334.6	327.0	328.9	332.7	332.7
30°	1336.5	1092.6	533.1	374.3	347.8	328.9	313.8	306.2	310.0	317.6	317.6
32.5°	1514.2	1194.7	499.1	345.9	317.6	296.8	281.7	276.0	285.4	300.6	300.6
35°	1831.8	1381.9	478.3	317.6	285.4	260.9	242.0	236.3	249.5	268.4	268.4
37.5°	2257.1	1682.4	485.8	293.0	259.0	230.6	209.8	202.3	211.7	228.7	234.4
40°	2731.6	2045.4	552.0	272.2	234.4	206.0	185.3	177.7	183.4	190.9	192.8
42.5°	3206.1	2431.0	676.8	257.1	215.5	185.3	166.4	160.7	164.5	166.4	168.2
45°	3678.7	2812.9	833.7	247.6	198.5	168.2	149.3	149.3	151.2	151.2	151.2
47.5°	4126.7	3185.3	998.1	245.7	183.4	151.2	136.1	138.0	138.0	139.9	139.9
50°	4550.1	3518.0	1164.5	251.4	170.1	136.1	124.8	124.8	124.8	126.7	124.8
52.5°	4903.6	3809.1	1338.4	260.9	156.9	124.8	113.4	113.4	113.4	115.3	113.4
55°	5238.2	4073.7	1516.1	274.1	145.6	115.3	104.0	100.2	100.2	102.1	100.2
57.5°	5510.4	4249.5	1684.3	276.0	136.1	105.9	96.4	90.7	90.7	90.7	90.7
60°	5521.8	4147.5	1733.5	242.0	124.8	96.4	87.0	79.4	81.3	81.3	81.3
62.5°	5160.7	3610.6	1393.2	181.5	111.5	87.0	79.4	71.8	71.8	71.8	71.8
65°	4451.8	2809.1	816.6	143.7	96.4	77.5	69.9	64.3	64.3	64.3	62.4
66°	4119.1	2463.1	625.7	130.4	90.7	75.6	68.1	62.4	60.5	58.6	58.6
67.5°	3576.6	1947.1	391.3	115.3	83.2	69.9	62.4	56.7	54.8	52.9	52.9
70°	2693.8	1236.3	190.9	88.8	71.8	60.5	54.8	49.1	47.3	45.4	43.5
72.5°	1890.4	724.0	100.2	68.1	58.6	52.9	47.3	41.6	39.7	37.8	37.8
75°	1068.1	349.7	66.2	49.1	47.3	43.5	39.7	34.0	32.1	32.1	32.1
77.5°	404.5	121.0	45.4	35.9	37.8	34.0	28.4	28.4	26.5	28.4	26.5
80°	105.9	52.9	28.4	26.5	28.4	24.6	20.8	22.7	22.7	22.7	22.7
82.5°	56.7	30.2	17.0	18.9	17.0	17.0	13.2	15.1	17.0	15.1	17.0
85°	39.7	15.1	9.5	9.5	7.6	7.6	5.7	7.6	9.5	7.6	7.6
87.5°	20.8	5.7	5.7	5.7	5.7	3.8	1.9	0.0	1.9	1.9	1.9
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)