

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: P1211706

Luminaire Tested: **ARCH4-90-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211706
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: ARCH4-90-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA 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: 10622 lumens
Efficiency: N/A
Efficacy: 114.1 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): 93.1
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



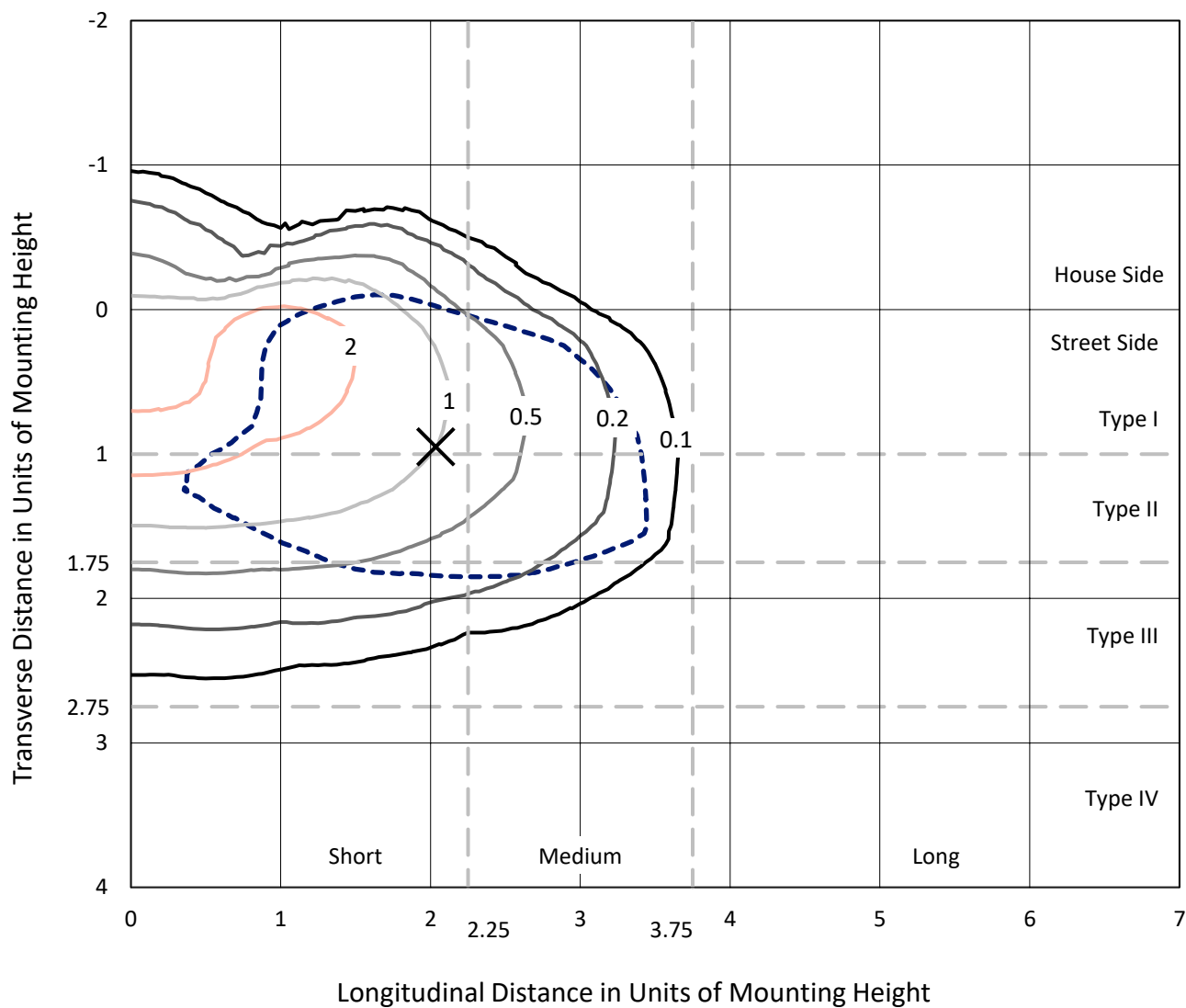
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

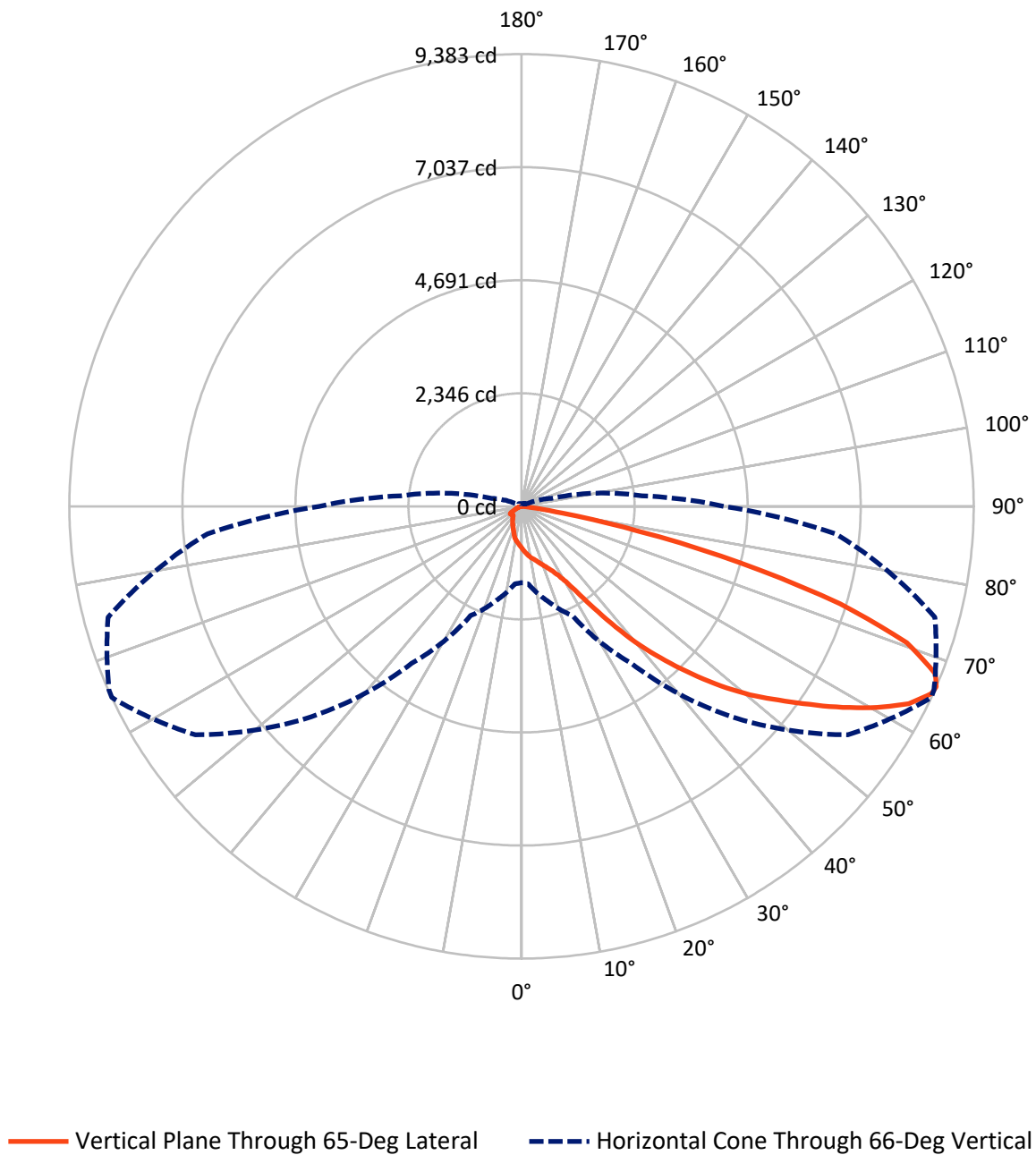
--- 1/2 Max cd



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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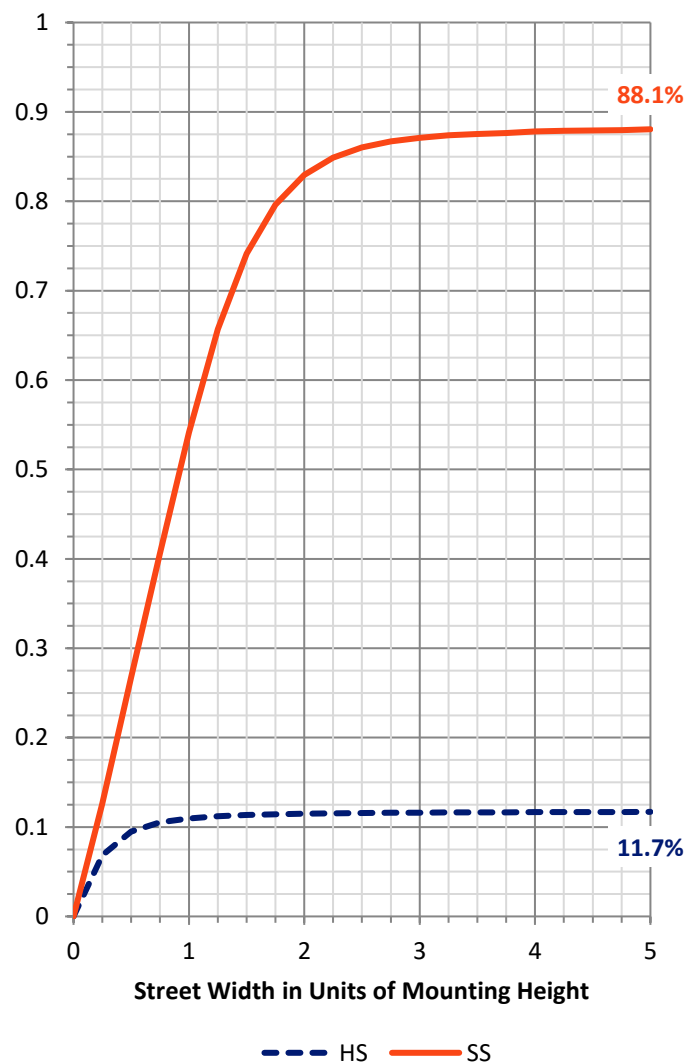
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.6	0.0	1253.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9368.4	0.0	9368.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	10622.0	0.0	10622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	0.8
10°-20°	242.9	2.3
20°-30°	444.5	4.2
30°-40°	903.3	8.5
40°-50°	1907.4	18.0
50°-60°	2932.3	27.6
60°-70°	2951.6	27.8
70°-80°	1102.9	10.4
80°-90°	55.1	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°	10622.0	100.0
0°-180°	10622.0	100.0

Coefficient of Utilization



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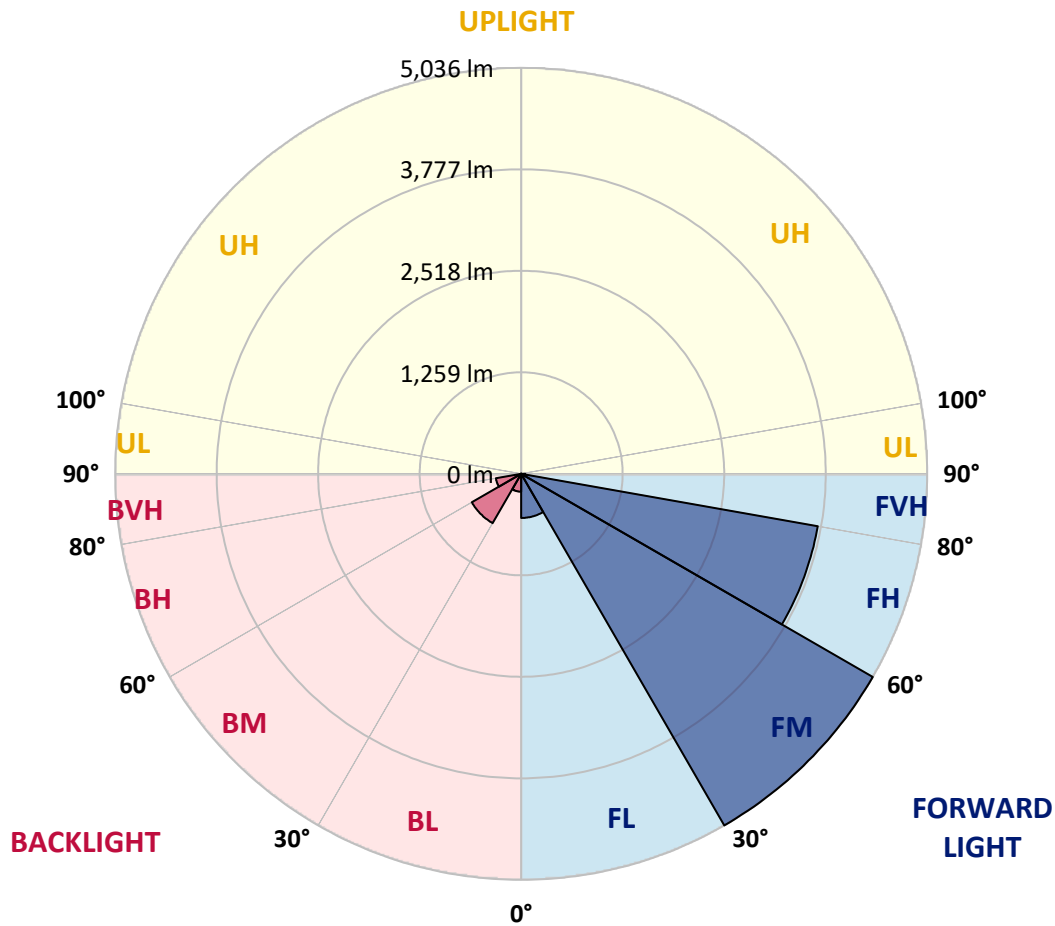
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.5	5.2			
FM	(30°-60°)	5036.2	47.4			
FH	(60°-80°)	3736.0	35.2			G2/5000
FVH	(80°-90°)	48.6	0.5			G1/100
BL	(0°-30°)	221.9	2.1	B1/500		
BM	(30°-60°)	706.8	6.7	B1/1000		
BH	(60°-80°)	318.5	3.0	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	986.8	988.7	984.9	977.2	969.5	959.8	944.4	919.4	915.5	898.2	878.9
5°	1054.3	1058.1	1052.4	1050.4	1046.6	1033.1	1011.9	975.3	971.4	936.7	892.4
7.5°	1077.4	1083.2	1079.3	1079.3	1079.3	1073.6	1063.9	1031.1	1025.4	981.0	913.6
10°	1094.8	1098.6	1096.7	1104.4	1110.2	1106.3	1100.5	1081.3	1075.5	1031.1	942.5
12.5°	1121.7	1123.7	1125.6	1129.4	1139.1	1142.9	1141.0	1123.7	1119.8	1089.0	979.1
15°	1146.8	1146.8	1148.7	1166.1	1179.6	1187.3	1189.2	1175.7	1171.8	1146.8	1025.4
17.5°	1169.9	1171.8	1177.6	1196.9	1220.0	1235.5	1245.1	1239.3	1233.5	1214.3	1079.3
20°	1204.6	1208.5	1214.3	1241.2	1264.4	1289.4	1308.7	1306.8	1304.8	1291.3	1142.9
22.5°	1264.4	1268.2	1277.9	1302.9	1326.0	1356.9	1389.6	1387.7	1381.9	1372.3	1218.1
25°	1354.9	1354.9	1360.7	1381.9	1410.8	1447.5	1478.3	1484.1	1478.3	1472.5	1312.5
27.5°	1468.7	1470.6	1470.6	1493.7	1520.7	1567.0	1605.5	1611.3	1611.3	1605.5	1439.8
30°	1626.7	1620.9	1617.1	1636.3	1665.3	1732.7	1800.2	1811.7	1806.0	1815.6	1619.0
32.5°	1898.5	1888.8	1856.1	1859.9	1877.3	1969.8	2083.5	2124.0	2122.0	2139.4	1908.1
35°	2274.3	2255.0	2206.9	2166.4	2164.4	2264.7	2438.1	2590.4	2588.5	2648.2	2347.6
37.5°	2698.3	2723.4	2632.8	2563.4	2542.2	2621.2	2844.8	3174.4	3191.7	3295.8	2923.8
40°	3265.0	3280.4	3164.8	3066.5	2966.2	2995.2	3290.0	3802.7	3833.6	3949.2	3500.1
42.5°	3758.4	3773.8	3706.4	3586.9	3459.6	3405.7	3739.1	4373.2	4398.3	4558.3	4093.8
45°	4093.8	4105.3	4128.5	4140.0	3995.5	3883.7	4288.4	4959.2	4990.0	5175.0	4673.9
47.5°	4355.9	4365.5	4411.8	4527.4	4498.5	4409.8	4847.4	5568.2	5575.9	5782.1	5238.6
50°	4477.3	4500.4	4614.2	4791.5	4918.7	4943.7	5454.5	6144.5	6165.7	6362.3	5772.5
52.5°	4342.4	4350.1	4637.3	4970.7	5227.1	5481.5	6063.5	6678.4	6740.1	6886.5	6252.4
55°	3887.5	3943.4	4379.0	4964.9	5469.9	5992.2	6715.0	7254.7	7310.6	7403.1	6674.5
57.5°	3359.4	3421.1	3951.1	4716.3	5574.0	6464.4	7318.3	7867.6	7906.1	7931.2	7061.9
60°	2902.6	2960.5	3505.9	4240.2	5469.9	6797.9	7879.1	8476.6	8509.4	8441.9	7256.6
62.5°	2341.8	2399.6	2948.9	3610.0	5061.3	6865.3	8295.4	9018.2	9031.7	8848.6	7137.1
65°	1765.5	1804.0	2262.7	2829.4	4346.2	6506.8	8389.9	9355.5	9342.0	8966.2	6778.6
66°	1582.4	1615.1	2019.9	2501.7	3974.3	6179.2	8262.7	9382.5	9369.0	8879.4	6543.5
67.5°	1364.6	1374.2	1707.7	2046.9	3324.7	5483.4	7875.3	9259.1	9270.7	8640.4	6113.7
70°	1065.8	1063.9	1256.7	1424.3	2270.5	3901.0	6568.5	8482.4	8538.3	7738.4	5213.6
72.5°	682.3	659.2	771.0	871.2	1322.2	2264.7	4789.5	6913.5	7008.0	6079.0	3883.7
75°	406.7	383.5	410.5	435.6	634.1	1089.0	2815.9	4704.7	4795.3	3897.2	2310.9
77.5°	304.5	294.9	296.8	275.6	281.4	408.6	1285.6	2486.3	2551.9	1595.9	877.0
80°	233.2	208.2	194.7	204.3	185.0	161.9	478.0	855.8	896.2	377.8	183.1
82.5°	156.1	134.9	125.3	136.8	117.6	90.6	115.6	165.8	161.9	102.2	71.3
85°	81.0	69.4	69.4	69.4	59.7	44.3	50.1	67.5	67.5	54.0	42.4
87.5°	23.1	21.2	25.1	23.1	17.3	17.3	19.3	23.1	23.1	21.2	19.3
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°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	863.5	855.8	834.6	819.1	803.7	790.2	774.8	771.0	763.2	765.2	761.3
5°	869.2	848.0	811.4	776.7	749.8	726.6	697.7	686.1	670.7	664.9	661.1
7.5°	877.0	846.1	792.2	744.0	697.7	651.5	605.2	578.2	560.9	553.2	547.4
10°	894.3	853.8	782.5	707.3	628.3	562.8	516.5	497.3	485.7	483.8	481.8
12.5°	917.4	865.4	772.9	661.1	557.0	495.3	466.4	460.6	458.7	458.7	456.8
15°	952.1	884.7	757.5	607.1	501.1	458.7	445.2	435.6	431.7	431.7	431.7
17.5°	986.8	907.8	734.3	551.2	462.6	435.6	422.1	416.3	412.5	414.4	412.5
20°	1031.1	934.8	703.5	503.0	437.5	416.3	402.8	397.0	395.1	395.1	395.1
22.5°	1081.3	965.6	664.9	466.4	416.3	397.0	383.5	377.8	373.9	375.8	375.8
25°	1148.7	1004.2	624.5	429.8	395.1	377.8	362.3	354.6	354.6	356.6	358.5
27.5°	1235.5	1050.4	584.0	406.7	375.8	358.5	341.1	333.4	335.4	339.2	339.2
30°	1362.7	1114.0	543.5	381.6	354.6	335.4	319.9	312.2	316.1	323.8	323.8
32.5°	1543.8	1218.1	508.8	352.7	323.8	302.6	287.2	281.4	291.0	306.5	306.5
35°	1867.6	1408.9	487.6	323.8	291.0	266.0	246.7	240.9	254.4	273.7	273.7
37.5°	2301.3	1715.4	495.3	298.7	264.1	235.1	213.9	206.2	215.9	233.2	239.0
40°	2785.1	2085.4	562.8	277.5	239.0	210.1	188.9	181.2	187.0	194.7	196.6
42.5°	3268.8	2478.6	690.0	262.1	219.7	188.9	169.6	163.8	167.7	169.6	171.5
45°	3750.7	2867.9	850.0	252.5	202.4	171.5	152.3	152.3	154.2	154.2	154.2
47.5°	4207.5	3247.6	1017.7	250.6	187.0	154.2	138.8	140.7	140.7	142.6	142.6
50°	4639.2	3586.9	1187.3	256.3	173.5	138.8	127.2	127.2	127.2	129.1	127.2
52.5°	4999.6	3883.7	1364.6	266.0	160.0	127.2	115.6	115.6	115.6	117.6	115.6
55°	5340.8	4153.5	1545.8	279.5	148.4	117.6	106.0	102.2	102.2	104.1	102.2
57.5°	5618.3	4332.8	1717.3	281.4	138.8	107.9	98.3	92.5	92.5	92.5	92.5
60°	5629.9	4228.7	1767.4	246.7	127.2	98.3	88.7	81.0	82.9	82.9	82.9
62.5°	5261.8	3681.3	1420.5	185.0	113.7	88.7	81.0	73.2	73.2	73.2	73.2
65°	4539.0	2864.1	832.6	146.5	98.3	79.0	71.3	65.5	65.5	65.5	63.6
66°	4199.8	2511.4	638.0	133.0	92.5	77.1	69.4	63.6	61.7	59.7	59.7
67.5°	3646.6	1985.2	399.0	117.6	84.8	71.3	63.6	57.8	55.9	54.0	54.0
70°	2746.5	1260.5	194.7	90.6	73.2	61.7	55.9	50.1	48.2	46.3	44.3
72.5°	1927.4	738.2	102.2	69.4	59.7	54.0	48.2	42.4	40.5	38.5	38.5
75°	1089.0	356.6	67.5	50.1	48.2	44.3	40.5	34.7	32.8	32.8	32.8
77.5°	412.5	123.4	46.3	36.6	38.5	34.7	28.9	28.9	27.0	28.9	27.0
80°	107.9	54.0	28.9	27.0	28.9	25.1	21.2	23.1	23.1	23.1	23.1
82.5°	57.8	30.8	17.3	19.3	17.3	17.3	13.5	15.4	17.3	15.4	17.3
85°	40.5	15.4	9.6	9.6	7.7	7.7	5.8	7.7	9.6	7.7	7.7
87.5°	21.2	5.8	5.8	5.8	5.8	3.9	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)