

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: P1211133

Luminaire Tested: **ARCH4-180-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27657 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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



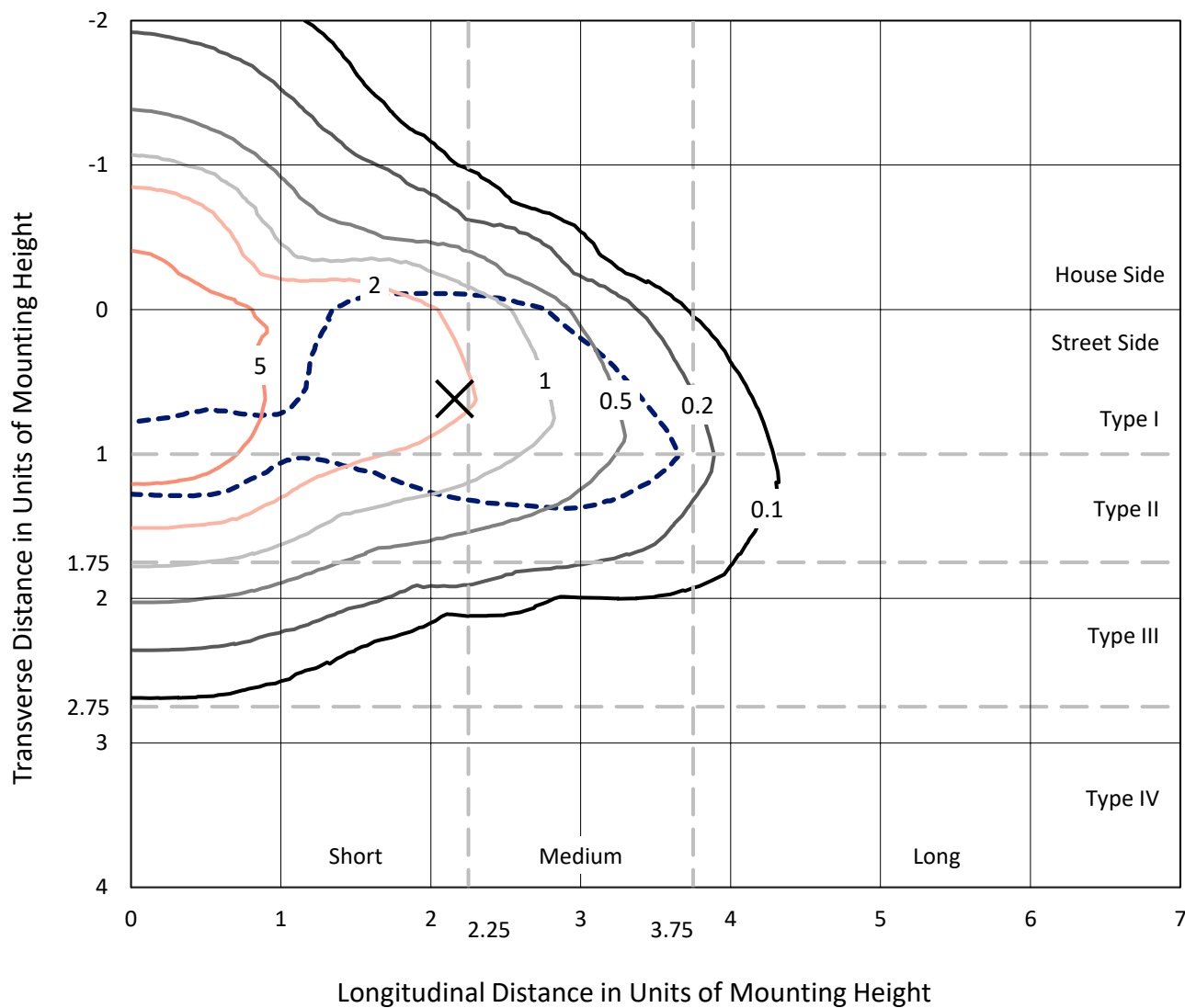
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Iso-Footcandle Lines of Horizontal Illumination

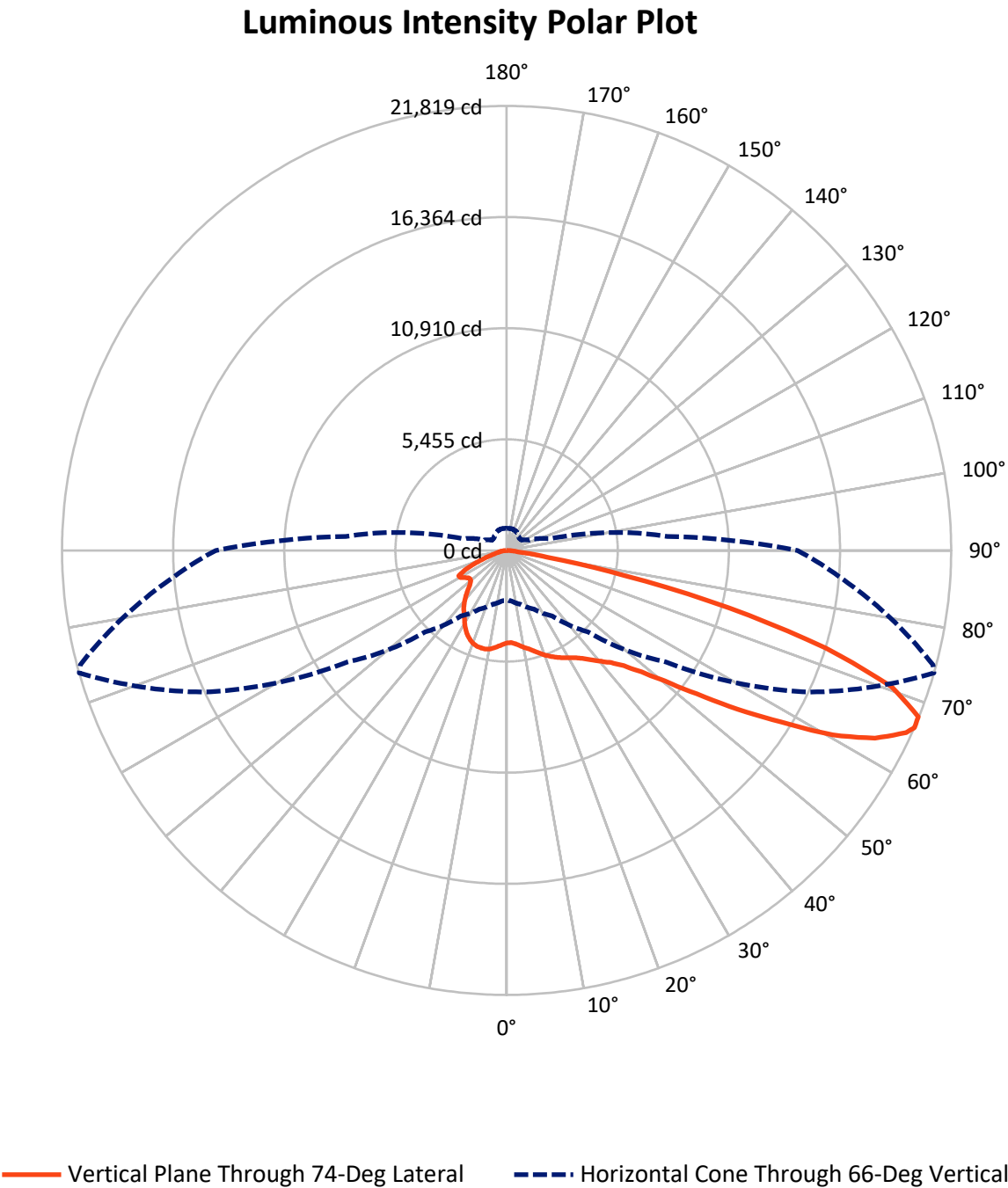
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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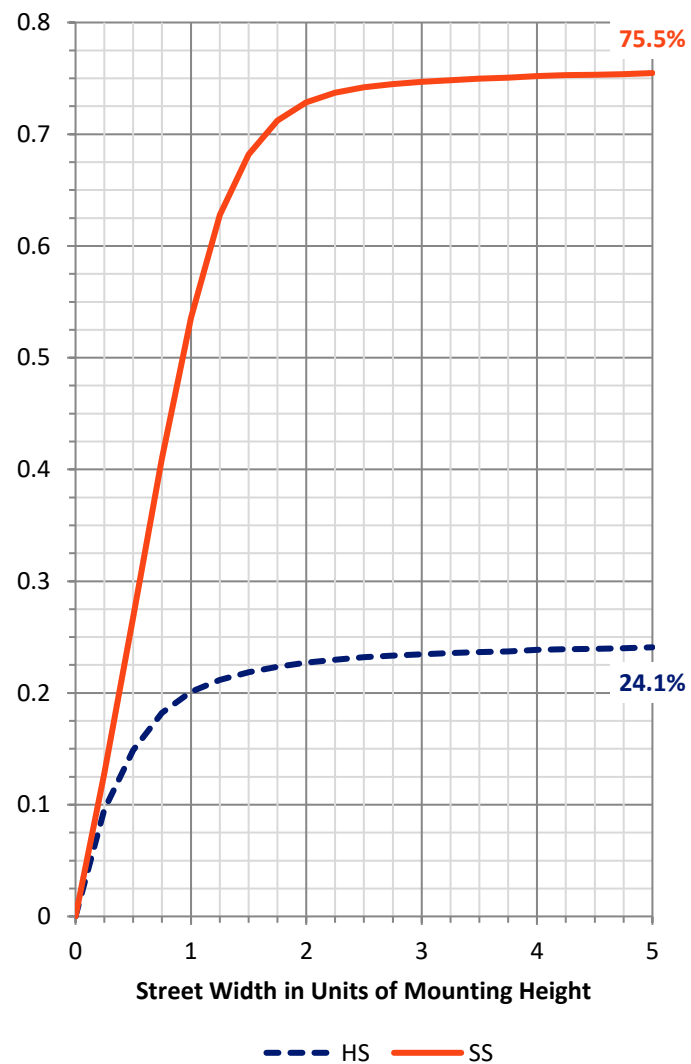
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6735.2	0.0	6735.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	20921.8	0.0	20921.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	27657.0	0.0	27657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.5	1.6
10°-20°	1330.0	4.8
20°-30°	2495.8	9.0
30°-40°	3839.1	13.9
40°-50°	5163.9	18.7
50°-60°	6106.9	22.1
60°-70°	5649.2	20.4
70°-80°	2376.6	8.6
80°-90°	263.0	1.0
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°	27657.0	100.0
0°-180°	27657.0	100.0

Coefficient of Utilization



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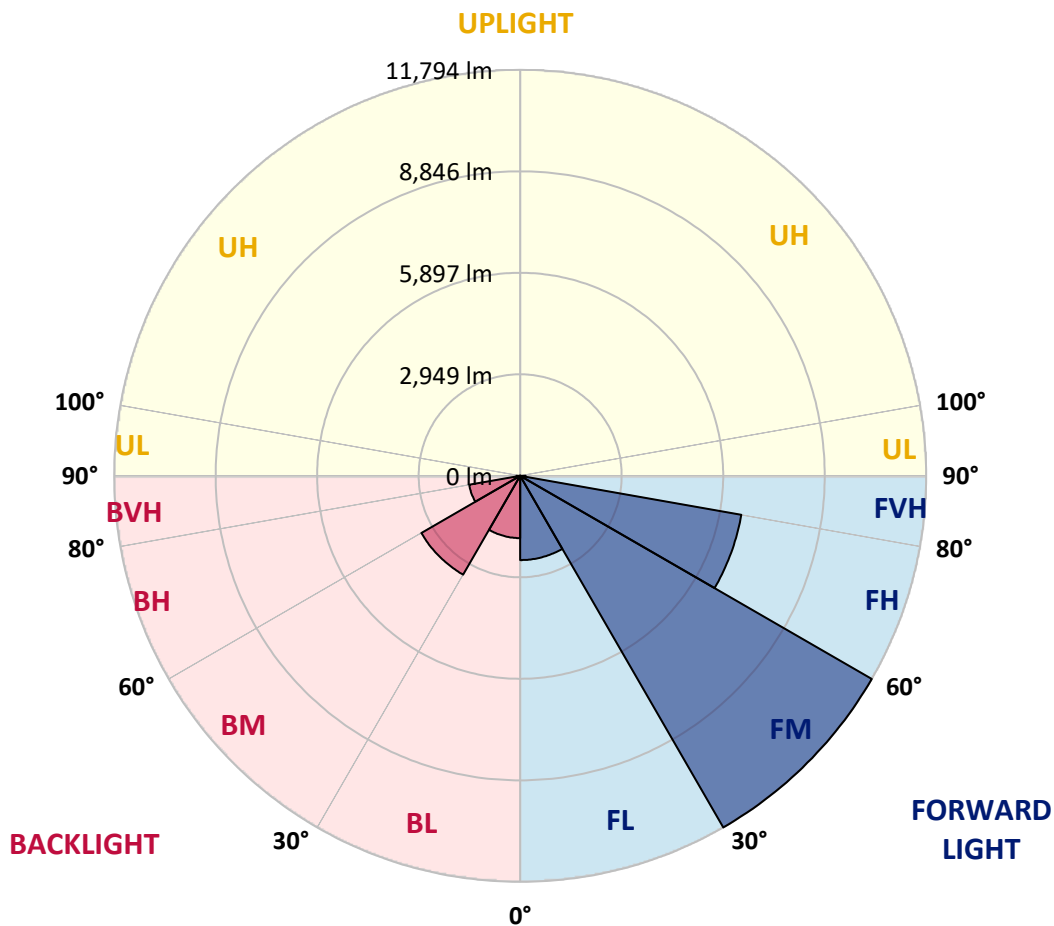
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2448.0	8.9			
FM	(30°-60°)	11794.2	42.6			
FH	(60°-80°)	6522.3	23.6			G3/7500
FVH	(80°-90°)	157.3	0.6			G2/225
BL	(0°-30°)	1810.3	6.5	B3/2500		
BM	(30°-60°)	3315.8	12.0	B3/5000		
BH	(60°-80°)	1503.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	105.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9
2.5°	4519.7	4512.5	4526.8	4548.1	4558.8	4541.0	4533.9	4530.3	4530.3	4519.7	4537.5
5°	4306.1	4302.6	4334.6	4373.8	4448.5	4501.9	4573.0	4615.8	4601.5	4580.2	4594.4
7.5°	4028.6	4021.4	4060.6	4135.3	4238.5	4356.0	4530.3	4665.6	4719.0	4711.8	4708.3
10°	4135.3	4128.2	4124.6	4103.3	4138.9	4252.8	4434.3	4672.7	4854.2	4857.8	4861.3
12.5°	4505.4	4523.2	4505.4	4437.8	4359.5	4316.8	4423.6	4690.5	4968.1	4989.4	5078.4
15°	5010.8	4993.0	4957.4	4879.1	4758.1	4630.0	4551.7	4772.3	5131.8	5149.6	5345.3
17.5°	5455.6	5469.9	5448.5	5373.8	5231.4	5064.2	4825.7	4914.7	5306.2	5356.0	5630.0
20°	5939.6	5996.6	5968.1	5875.6	5758.1	5509.0	5210.1	5121.1	5498.3	5533.9	5925.4
22.5°	6498.4	6558.9	6505.5	6416.5	6320.4	6014.4	5630.0	5373.8	5658.5	5733.2	6210.1
25°	7167.4	7224.3	7174.5	7035.7	6914.7	6541.1	6082.0	5658.5	5815.1	5896.9	6441.4
27.5°	7697.7	7740.4	7786.6	7704.8	7519.7	7131.8	6551.7	5953.9	5971.7	6057.1	6654.9
30°	8171.0	8277.8	8316.9	8327.6	8171.0	7736.8	7032.2	6259.9	6106.9	6195.9	6868.5
32.5°	8818.7	8978.8	8914.8	8978.8	8886.3	8306.2	7530.4	6576.6	6281.3	6363.1	7071.3
35°	9765.3	9893.4	9726.2	9676.4	9526.9	8882.7	8010.8	6904.1	6512.6	6601.6	7263.5
37.5°	10783.1	10929.1	10687.1	10487.8	10203.1	9452.2	8423.7	7334.7	6832.9	6904.1	7441.4
40°	11672.8	11793.8	11583.9	11320.5	10843.6	9953.9	8779.5	7637.2	7153.2	7242.1	7647.8
42.5°	12494.9	12573.2	12338.3	12085.7	11448.6	10405.9	9163.9	7957.5	7526.8	7612.3	7815.1
45°	13327.7	13388.2	13060.8	12701.3	11954.0	10818.7	9587.4	8405.9	8074.9	8188.8	8085.6
47.5°	13477.1	13494.9	13438.0	13196.0	12352.6	11213.8	10110.5	9007.3	8911.2	9035.8	8551.8
50°	12441.5	12601.7	12954.0	13192.4	12512.7	11544.7	10633.7	9868.5	10064.3	10224.4	9519.8
52.5°	10430.8	10583.8	11398.8	12302.7	12128.4	11619.5	11196.0	10961.1	11690.6	11882.8	10836.5
55°	8309.8	8445.0	9306.2	10608.8	10886.3	11277.8	11797.4	12356.1	13765.4	13893.5	12281.4
57.5°	6843.6	6918.3	7534.0	8786.7	9231.5	10185.3	12121.2	14014.5	15875.8	16071.5	13537.6
60°	5612.2	5694.1	6153.2	7185.2	7776.0	8623.0	11865.0	15651.6	18395.4	18395.4	15149.8
62.5°	4224.3	4295.5	4722.5	5530.4	6523.3	7299.1	11046.5	16737.0	20295.8	20210.4	16317.1
65°	2900.4	2957.4	3267.0	3804.3	4697.6	6220.8	9929.0	16751.2	21555.6	21441.7	16815.3
66°	2434.2	2484.0	2747.4	3181.6	3932.5	5644.2	9534.0	16448.7	21819.0	21658.8	16605.3
67.5°	1921.7	1957.3	2131.7	2387.9	2882.6	4569.5	8911.2	15591.1	21794.0	21698.0	16071.5
70°	1373.7	1398.6	1526.7	1580.1	1704.7	2644.2	7078.4	13655.1	20046.7	20075.1	13971.8
72.5°	1064.1	1103.2	1181.5	1192.2	1163.7	1405.7	4295.5	11391.7	16398.9	16388.2	10370.3
75°	857.7	879.0	918.2	939.5	932.4	907.5	1818.5	8498.4	11288.5	11420.2	5807.9
77.5°	676.2	672.6	708.2	736.7	758.0	711.8	832.8	4982.3	5918.3	5751.0	2181.5
80°	498.2	498.2	548.1	558.7	590.8	597.9	555.2	1921.7	2032.1	1847.0	565.8
82.5°	327.4	327.4	380.8	387.9	419.9	466.2	402.1	576.5	562.3	533.8	256.2
85°	177.9	170.8	188.6	213.5	231.3	274.0	242.0	288.3	295.4	291.8	170.8
87.5°	35.6	32.0	49.8	56.9	64.1	85.4	78.3	117.4	163.7	160.1	74.7
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°	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9	4533.9
2.5°	4562.4	4558.8	4598.0	4644.2	4697.6	4729.6	4743.9	4768.8	4751.0	4758.1	4779.5
5°	4630.0	4640.7	4697.6	4758.1	4783.0	4765.2	4726.1	4711.8	4679.8	4672.7	4665.6
7.5°	4729.6	4747.4	4804.4	4818.6	4743.9	4619.3	4530.3	4480.5	4427.1	4412.9	4405.8
10°	4893.3	4904.0	4918.3	4772.3	4587.3	4420.0	4309.7	4263.4	4227.8	4199.4	4206.5
12.5°	5099.7	5092.6	4982.3	4679.8	4416.5	4245.6	4170.9	4142.4	4117.5	4099.7	4096.2
15°	5359.5	5309.7	4993.0	4551.7	4256.3	4114.0	4060.6	4049.9	4021.4	4021.4	4017.9
17.5°	5622.9	5494.8	4985.9	4416.5	4103.3	4025.0	3993.0	3985.8	3978.7	3975.2	3985.8
20°	5886.2	5658.5	4928.9	4249.2	3996.5	3950.3	3943.1	3946.7	3939.6	3950.3	3943.1
22.5°	6117.6	5765.2	4822.2	4071.3	3921.8	3918.2	3900.4	3907.6	3932.5	3936.0	3946.7
25°	6295.5	5804.4	4665.6	3907.6	3868.4	3861.3	3882.6	3911.1	3932.5	3936.0	3953.8
27.5°	6441.4	5783.0	4469.8	3779.4	3775.9	3815.0	3879.1	3889.8	3893.3	3893.3	3879.1
30°	6551.7	5736.8	4220.7	3637.1	3654.9	3751.0	3811.5	3811.5	3783.0	3775.9	3797.2
32.5°	6576.6	5676.3	3950.3	3491.2	3519.6	3633.5	3708.3	3683.4	3651.3	3651.3	3665.6
35°	6598.0	5594.4	3733.2	3291.9	3334.6	3469.8	3541.0	3491.2	3455.6	3444.9	3441.4
37.5°	6590.9	5562.4	3537.4	3039.2	3096.1	3227.8	3274.1	3227.8	3174.4	3149.5	3181.6
40°	6598.0	5541.0	3291.9	2761.6	2818.6	2896.9	2957.4	2921.8	2871.9	2807.9	2839.9
42.5°	6640.7	5569.5	3021.4	2491.2	2491.2	2533.9	2637.1	2612.2	2491.2	2466.2	2494.7
45°	6868.5	5722.5	2750.9	2220.7	2181.5	2210.0	2316.8	2210.0	2135.3	2135.3	2160.2
47.5°	7420.1	6007.2	2512.5	1982.2	1889.7	1946.7	1975.1	1875.5	1818.5	1804.3	1829.2
50°	8544.7	6576.6	2370.2	1786.5	1672.6	1715.3	1697.5	1694.0	1637.0	1644.2	1658.4
52.5°	10252.9	7687.0	2327.5	1690.4	1548.1	1558.8	1541.0	1548.1	1537.4	1573.0	1583.7
55°	12114.1	8857.8	2380.8	1704.7	1462.7	1387.9	1395.0	1430.6	1473.3	1530.3	1541.0
57.5°	13505.6	9445.0	2519.6	1800.7	1355.9	1242.0	1259.8	1327.4	1409.3	1455.5	1480.5
60°	14541.2	9373.9	2722.5	1825.7	1227.8	1110.3	1142.4	1242.0	1313.2	1352.3	1377.3
62.5°	14879.3	8929.0	2772.3	1644.2	1060.5	985.8	1064.1	1167.3	1199.3	1242.0	1259.8
65°	14601.7	8299.1	2409.3	1334.5	932.4	893.3	1007.1	1085.4	1128.1	1149.5	1153.0
66°	14274.3	7921.9	2213.6	1213.5	886.1	864.8	985.8	1049.8	1092.5	1089.0	1092.5
67.5°	13555.4	7131.8	1896.8	1042.7	818.5	822.1	950.2	992.9	1007.1	996.5	996.5
70°	11110.6	5021.5	1359.5	790.1	718.9	768.7	854.1	864.8	896.8	882.6	882.6
72.5°	6850.7	2466.2	911.1	605.0	640.6	718.9	715.3	750.9	825.6	847.0	861.2
75°	3366.6	1000.0	601.4	512.5	573.0	601.4	594.3	683.3	790.1	882.6	914.6
77.5°	1277.6	498.2	419.9	448.4	462.6	452.0	473.3	619.2	790.1	957.3	989.3
80°	395.0	345.2	331.0	370.1	348.8	331.0	355.9	512.5	669.1	726.0	726.0
82.5°	238.4	270.5	256.2	252.7	234.9	238.4	256.2	366.6	516.0	540.9	540.9
85°	167.3	177.9	145.9	138.8	135.2	131.7	131.7	213.5	306.1	302.5	313.2
87.5°	64.1	71.2	53.4	53.4	49.8	35.6	28.5	35.6	35.6	24.9	17.8
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)