

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: P1211045

Luminaire Tested: **ARCH4-150-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211045
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: ARCH4-150-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25114 lumens
Efficiency: N/A
Efficacy: 166.5 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): 150.8
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



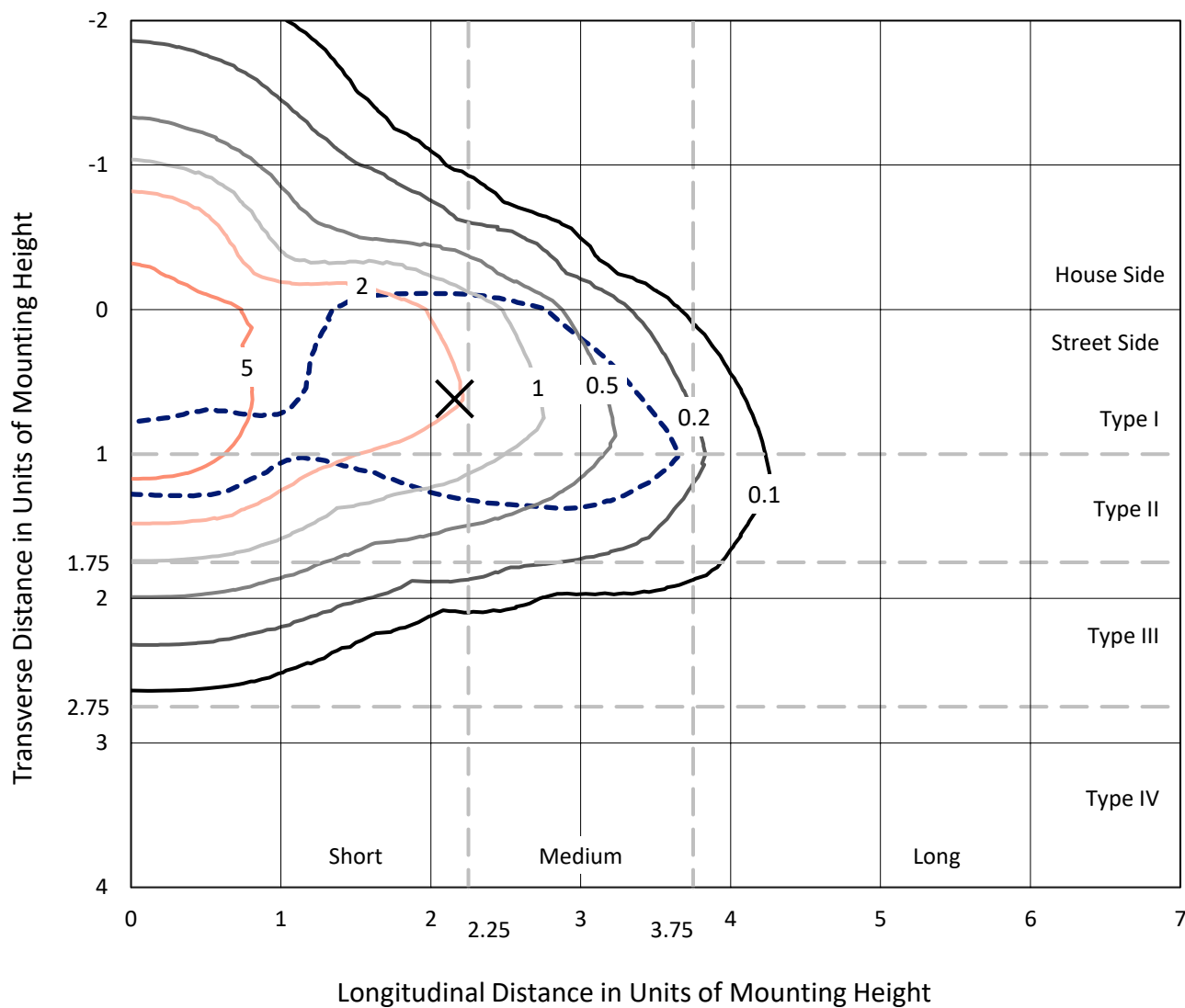
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Iso-Footcandle Lines of Horizontal Illumination

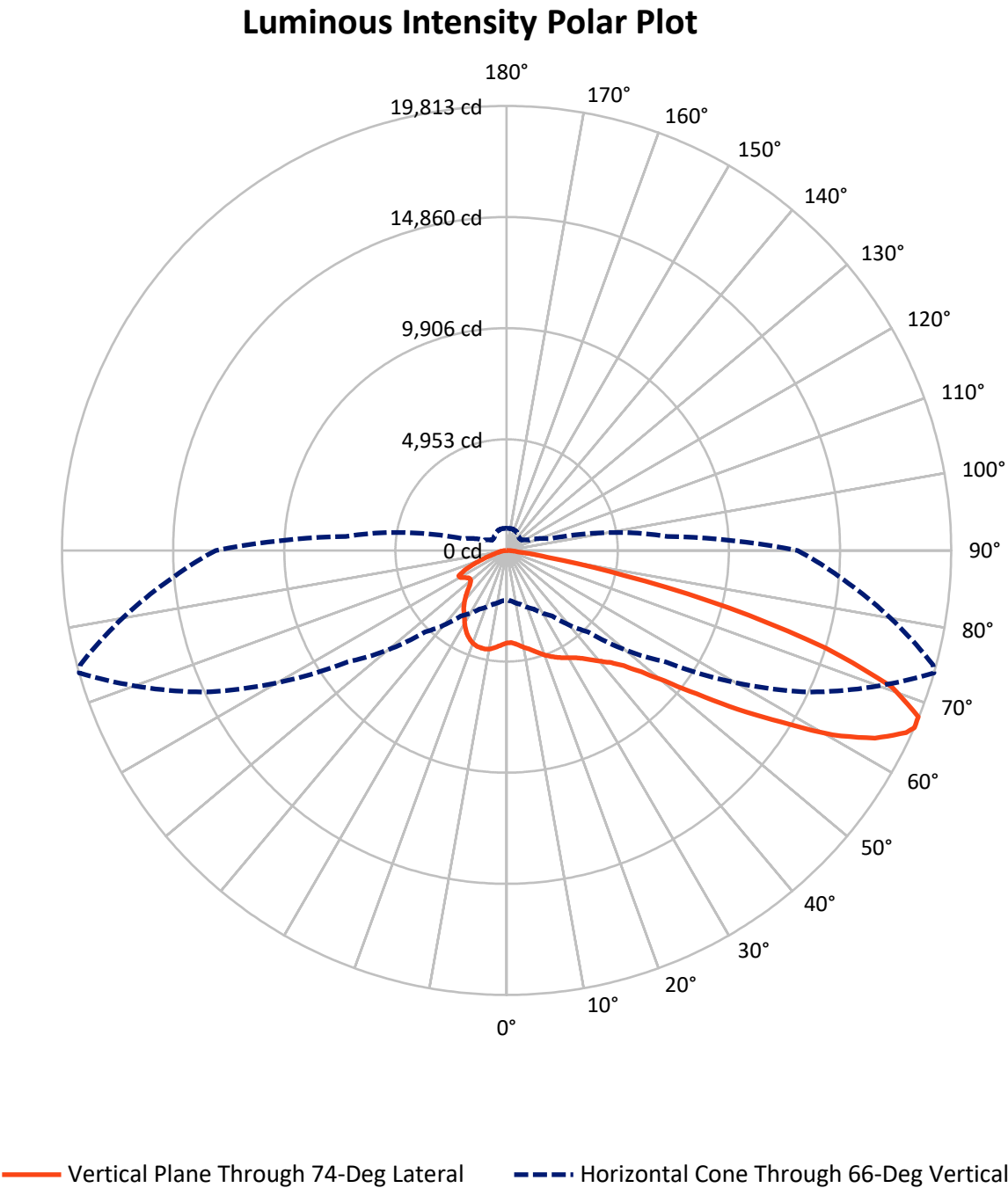
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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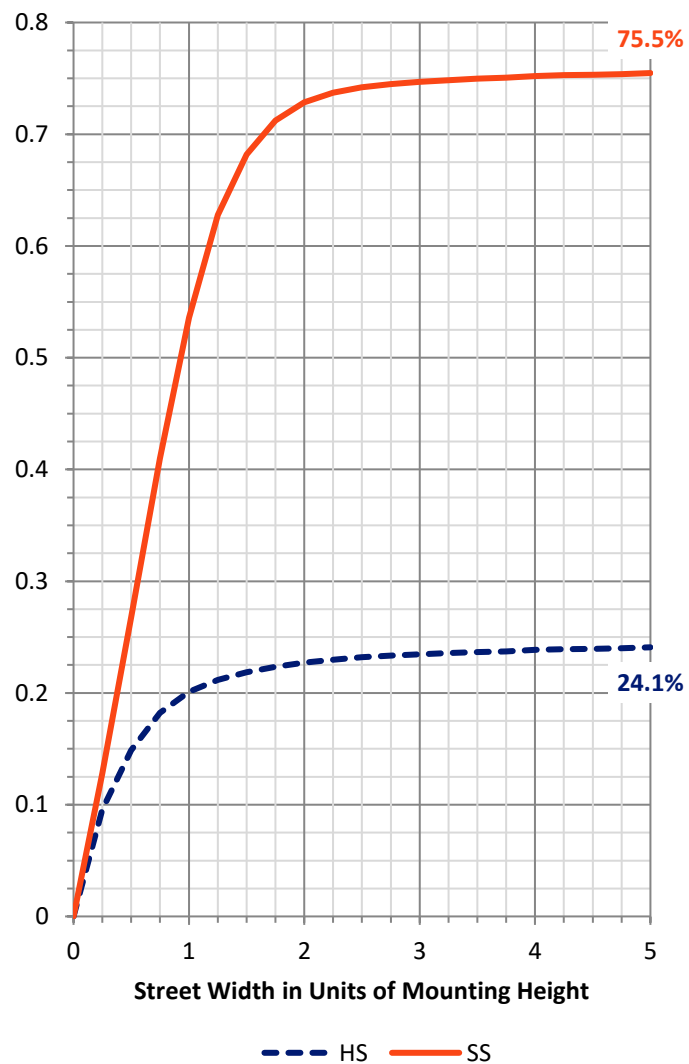
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6115.9	0.0	6115.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	18998.1	0.0	18998.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	25114.0	0.0	25114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.6
10°-20°	1207.7	4.8
20°-30°	2266.3	9.0
30°-40°	3486.1	13.9
40°-50°	4689.1	18.7
50°-60°	5545.4	22.1
60°-70°	5129.8	20.4
70°-80°	2158.1	8.6
80°-90°	238.8	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°	25114.0	100.0
0°-180°	25114.0	100.0

Coefficient of Utilization



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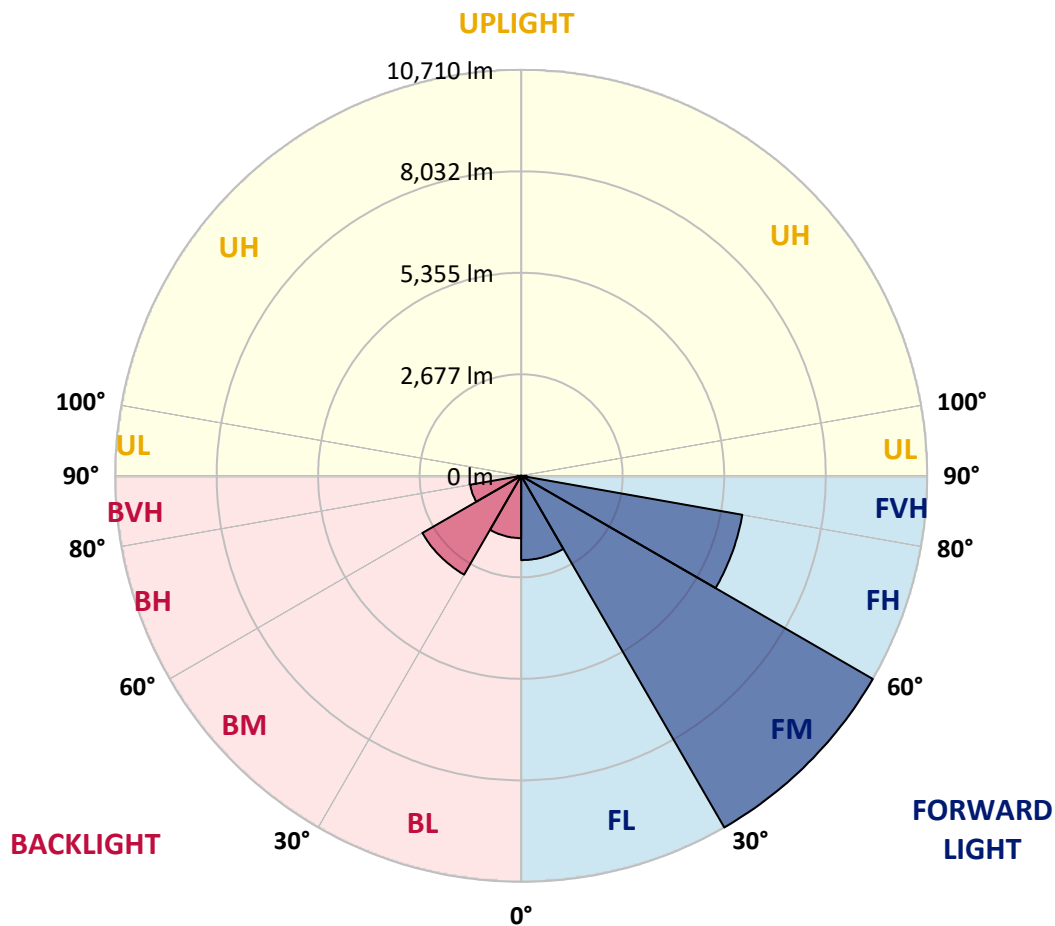
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2222.9	8.9			
FM	(30°-60°)	10709.7	42.6			
FH	(60°-80°)	5922.6	23.6			G3/7500
FVH	(80°-90°)	142.9	0.6			G2/225
BL	(0°-30°)	1643.8	6.5	B3/2500		
BM	(30°-60°)	3010.9	12.0	B3/5000		
BH	(60°-80°)	1365.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	95.9	0.4			G1/100
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°	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0
2.5°	4104.1	4097.6	4110.6	4129.9	4139.6	4123.5	4117.0	4113.8	4113.8	4104.1	4120.3
5°	3910.2	3907.0	3936.1	3971.6	4039.5	4087.9	4152.6	4191.3	4178.4	4159.0	4172.0
7.5°	3658.1	3651.7	3687.2	3755.1	3848.8	3955.4	4113.8	4236.6	4285.1	4278.6	4275.4
10°	3755.1	3748.6	3745.4	3726.0	3758.3	3861.7	4026.5	4243.1	4407.9	4411.1	4414.3
12.5°	4091.2	4107.3	4091.2	4029.8	3958.7	3919.9	4016.8	4259.2	4511.3	4530.7	4611.4
15°	4550.0	4533.9	4501.6	4430.5	4320.6	4204.3	4133.2	4333.5	4659.9	4676.1	4853.8
17.5°	4954.0	4966.9	4947.5	4879.7	4750.4	4598.5	4382.0	4462.8	4818.3	4863.5	5112.3
20°	5393.5	5445.2	5419.3	5335.3	5228.7	5002.5	4731.0	4650.2	4992.8	5025.1	5380.6
22.5°	5900.8	5955.8	5907.3	5826.5	5739.3	5461.4	5112.3	4879.7	5138.2	5206.1	5639.1
25°	6508.4	6560.1	6514.8	6388.8	6278.9	5939.6	5522.8	5138.2	5280.4	5354.7	5849.1
27.5°	6989.9	7028.7	7070.7	6996.3	6828.3	6476.1	5949.3	5406.4	5422.6	5500.1	6043.0
30°	7419.7	7516.6	7552.2	7561.9	7419.7	7025.4	6385.6	5684.3	5545.4	5626.2	6236.9
32.5°	8007.8	8153.2	8095.1	8153.2	8069.2	7542.5	6838.0	5971.9	5703.7	5778.0	6421.1
35°	8867.4	8983.8	8831.9	8786.6	8650.9	8066.0	7274.3	6269.2	5913.8	5994.6	6595.6
37.5°	9791.7	9924.2	9704.4	9523.4	9264.9	8583.0	7649.1	6660.3	6204.6	6269.2	6757.2
40°	10599.5	10709.4	10518.8	10279.6	9846.6	9038.7	7972.3	6934.9	6495.5	6576.2	6944.6
42.5°	11346.0	11417.1	11203.9	10974.4	10396.0	9449.1	8321.3	7225.8	6834.8	6912.3	7096.5
45°	12102.2	12157.2	11859.9	11533.5	10854.8	9824.0	8705.8	7633.0	7332.4	7435.8	7342.1
47.5°	12238.0	12254.1	12202.4	11982.7	11216.8	10182.7	9180.9	8179.1	8091.9	8205.0	7765.5
50°	11297.6	11443.0	11762.9	11979.4	11362.2	10483.2	9655.9	8961.1	9138.9	9284.3	8644.4
52.5°	9471.7	9610.7	10350.7	11171.5	11013.2	10551.1	10166.5	9953.2	10615.7	10790.2	9840.1
55°	7545.7	7668.5	8450.6	9633.3	9885.4	10240.8	10712.7	11220.0	12499.7	12616.0	11152.1
57.5°	6214.3	6282.2	6841.2	7978.7	8382.7	9248.8	11006.7	12725.9	14416.0	14593.8	12292.9
60°	5096.2	5170.5	5587.4	6524.5	7061.0	7830.1	10774.1	14212.4	16704.0	16704.0	13756.8
62.5°	3835.9	3900.5	4288.3	5021.9	5923.5	6627.9	10030.8	15198.1	18429.6	18352.1	14816.7
65°	2633.7	2685.4	2966.6	3454.5	4265.7	5648.8	9016.1	15211.0	19573.6	19470.2	15269.2
66°	2210.4	2255.6	2494.8	2889.0	3570.9	5125.3	8657.4	14936.3	19812.8	19667.3	15078.5
67.5°	1745.0	1777.4	1935.7	2168.4	2617.6	4149.3	8091.9	14157.5	19790.1	19702.9	14593.8
70°	1247.4	1270.0	1386.3	1434.8	1547.9	2401.1	6427.6	12399.5	18203.4	18229.3	12687.1
72.5°	966.2	1001.8	1072.9	1082.6	1056.7	1276.5	3900.5	10344.3	14891.1	14881.4	9416.8
75°	778.8	798.2	833.7	853.1	846.7	824.1	1651.3	7717.0	10250.5	10370.1	5273.9
77.5°	614.0	610.8	643.1	668.9	688.3	646.3	756.2	4524.2	5374.1	5222.2	1981.0
80°	452.4	452.4	497.7	507.4	536.4	542.9	504.1	1745.0	1845.2	1677.2	513.8
82.5°	297.3	297.3	345.8	352.2	381.3	423.3	365.2	523.5	510.6	484.7	232.7
85°	161.6	155.1	171.3	193.9	210.1	248.8	219.7	261.8	268.2	265.0	155.1
87.5°	32.3	29.1	45.2	51.7	58.2	77.6	71.1	106.6	148.7	145.4	67.9
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°	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0	4117.0
2.5°	4142.9	4139.6	4175.2	4217.2	4265.7	4294.8	4307.7	4330.3	4314.1	4320.6	4340.0
5°	4204.3	4214.0	4265.7	4320.6	4343.2	4327.1	4291.5	4278.6	4249.5	4243.1	4236.6
7.5°	4294.8	4310.9	4362.6	4375.5	4307.7	4194.6	4113.8	4068.5	4020.1	4007.1	4000.7
10°	4443.4	4453.1	4466.0	4333.5	4165.5	4013.6	3913.4	3871.4	3839.1	3813.3	3819.7
12.5°	4630.8	4624.4	4524.2	4249.5	4010.4	3855.3	3787.4	3761.5	3738.9	3722.8	3719.5
15°	4866.7	4821.5	4533.9	4133.2	3865.0	3735.7	3687.2	3677.5	3651.7	3651.7	3648.4
17.5°	5105.9	4989.5	4527.4	4010.4	3726.0	3654.9	3625.8	3619.4	3612.9	3609.7	3619.4
20°	5345.0	5138.2	4475.7	3858.5	3629.1	3587.0	3580.6	3583.8	3577.3	3587.0	3580.6
22.5°	5555.1	5235.1	4378.8	3696.9	3561.2	3558.0	3541.8	3548.3	3570.9	3574.1	3583.8
25°	5716.6	5270.7	4236.6	3548.3	3512.7	3506.3	3525.6	3551.5	3570.9	3574.1	3590.3
27.5°	5849.1	5251.3	4058.9	3431.9	3428.7	3464.2	3522.4	3532.1	3535.3	3535.3	3522.4
30°	5949.3	5209.3	3832.6	3302.7	3318.8	3406.1	3461.0	3461.0	3435.2	3428.7	3448.1
32.5°	5971.9	5154.4	3587.0	3170.2	3196.0	3299.4	3367.3	3344.7	3315.6	3315.6	3328.5
35°	5991.3	5080.0	3389.9	2989.2	3028.0	3150.8	3215.4	3170.2	3137.9	3128.2	3124.9
37.5°	5984.9	5050.9	3212.2	2759.8	2811.5	2931.0	2973.0	2931.0	2882.6	2859.9	2889.0
40°	5991.3	5031.6	2989.2	2507.7	2559.4	2630.5	2685.4	2653.1	2607.9	2549.7	2578.8
42.5°	6030.1	5057.4	2743.6	2262.1	2262.1	2300.9	2394.6	2372.0	2262.1	2239.5	2265.3
45°	6236.9	5196.4	2498.0	2016.5	1981.0	2006.8	2103.8	2006.8	1938.9	1938.9	1961.6
47.5°	6737.8	5454.9	2281.5	1800.0	1716.0	1767.7	1793.5	1703.0	1651.3	1638.4	1661.0
50°	7759.0	5971.9	2152.2	1622.2	1518.8	1557.6	1541.5	1538.2	1486.5	1493.0	1505.9
52.5°	9310.2	6980.2	2113.4	1535.0	1405.7	1415.4	1399.3	1405.7	1396.0	1428.4	1438.0
55°	11000.3	8043.4	2161.9	1547.9	1328.2	1260.3	1266.8	1299.1	1337.9	1389.6	1399.3
57.5°	12263.8	8576.6	2288.0	1635.2	1231.2	1127.8	1144.0	1205.4	1279.7	1321.7	1344.3
60°	13204.2	8512.0	2472.2	1657.8	1114.9	1008.2	1037.3	1127.8	1192.4	1228.0	1250.6
62.5°	13511.2	8108.0	2517.4	1493.0	963.0	895.1	966.2	1060.0	1089.0	1127.8	1144.0
65°	13259.1	7536.0	2187.8	1211.8	846.7	811.1	914.5	985.6	1024.4	1043.8	1047.0
66°	12961.8	7193.5	2010.0	1102.0	804.7	785.3	895.1	953.3	992.1	988.9	992.1
67.5°	12309.0	6476.1	1722.4	946.8	743.3	746.5	862.8	901.6	914.5	904.8	904.8
70°	10089.0	4559.7	1234.5	717.4	652.8	698.0	775.6	785.3	814.4	801.4	801.4
72.5°	6220.8	2239.5	827.3	549.4	581.7	652.8	649.5	681.9	749.7	769.1	782.0
75°	3057.1	908.1	546.1	465.3	520.3	546.1	539.7	620.5	717.4	801.4	830.5
77.5°	1160.1	452.4	381.3	407.2	420.1	410.4	429.8	562.3	717.4	869.3	898.4
80°	358.7	313.5	300.5	336.1	316.7	300.5	323.2	465.3	607.5	659.2	659.2
82.5°	216.5	245.6	232.7	229.4	213.3	216.5	232.7	332.9	468.6	491.2	491.2
85°	151.9	161.6	132.5	126.0	122.8	119.6	119.6	193.9	277.9	274.7	284.4
87.5°	58.2	64.6	48.5	48.5	45.2	32.3	25.9	32.3	32.3	22.6	16.2
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)