

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: P1210661

Luminaire Tested: **ARCH3-190-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210661
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: ARCH3-190-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25133 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

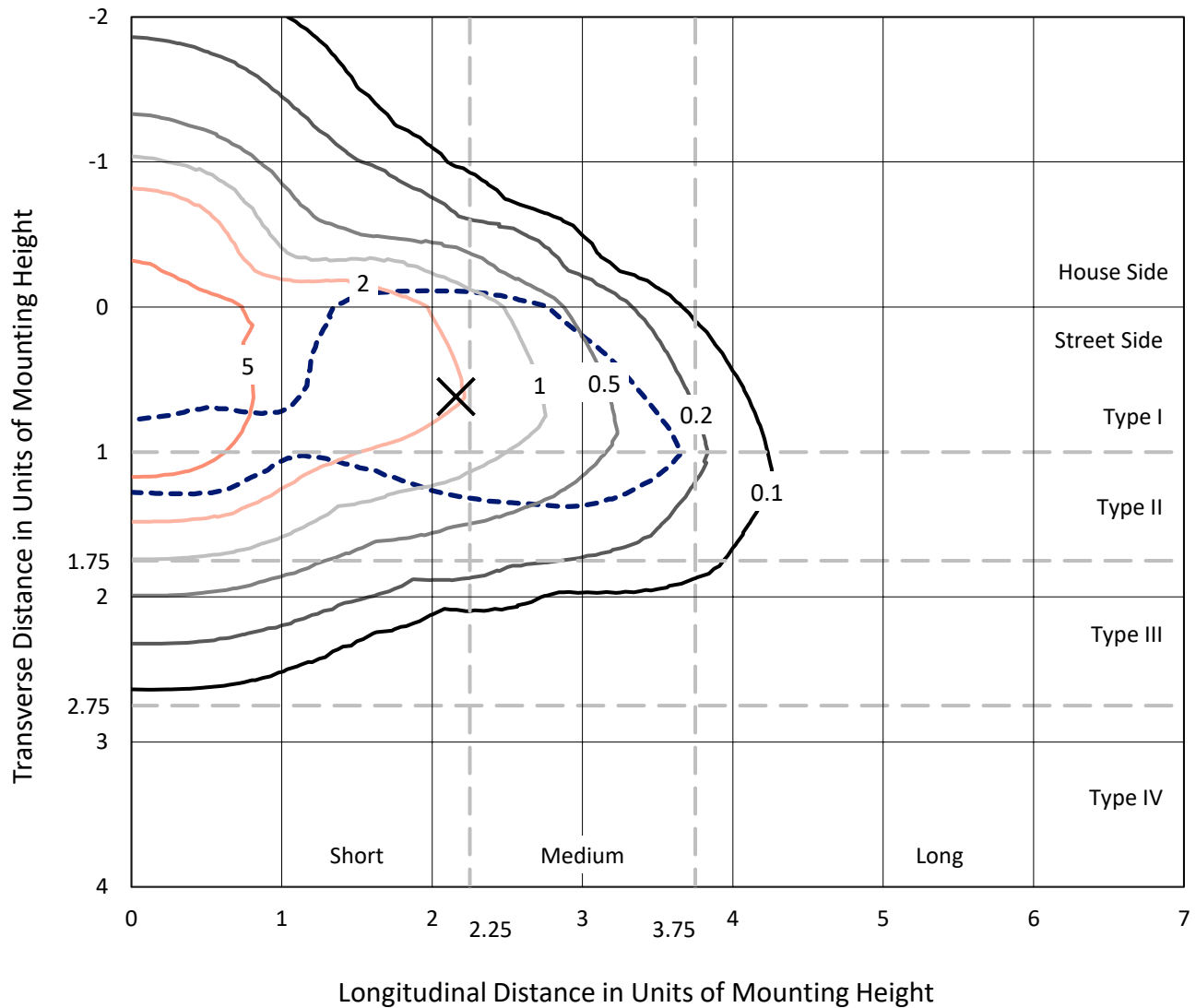


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Iso-Footcandle Lines of Horizontal Illumination

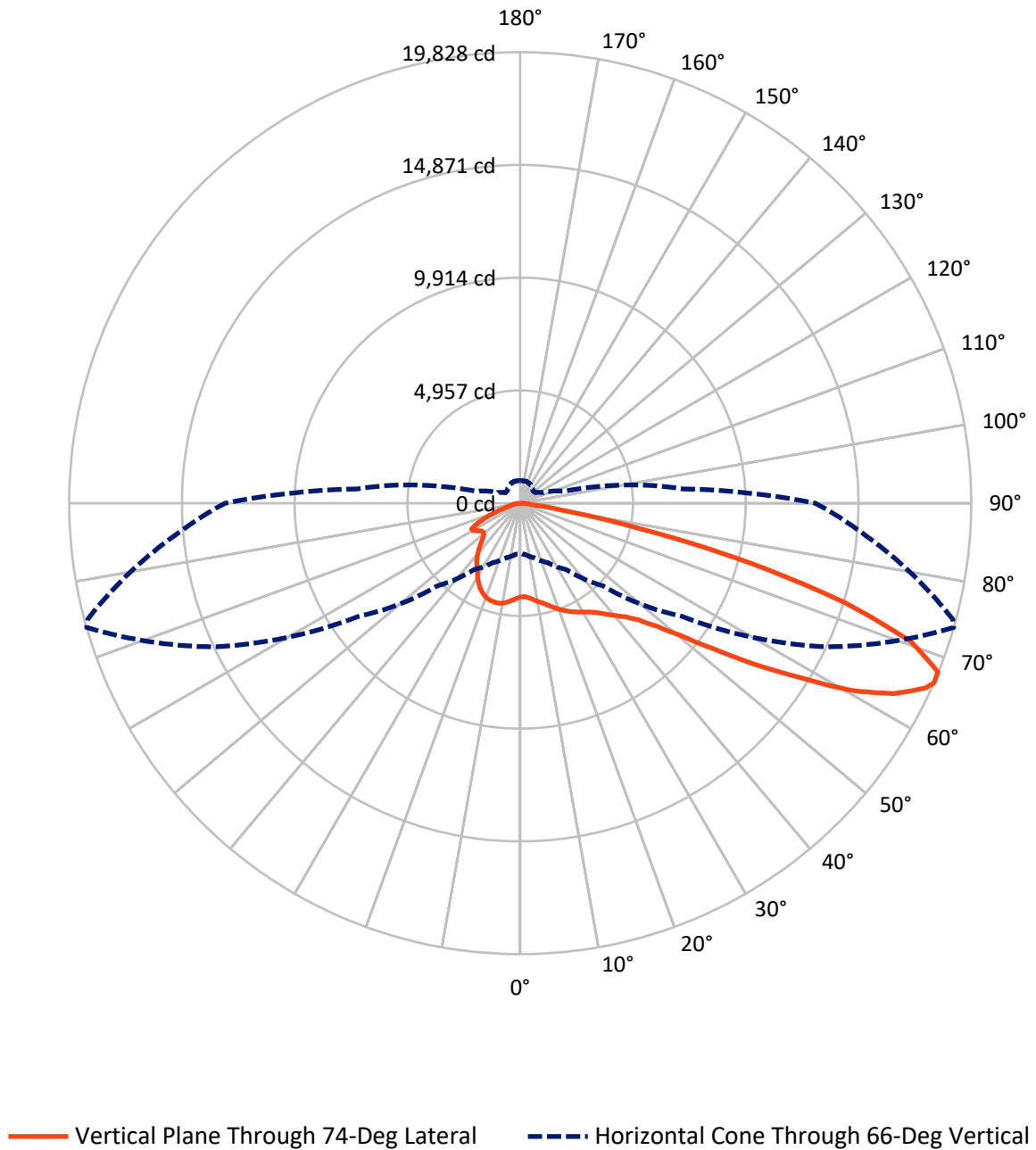
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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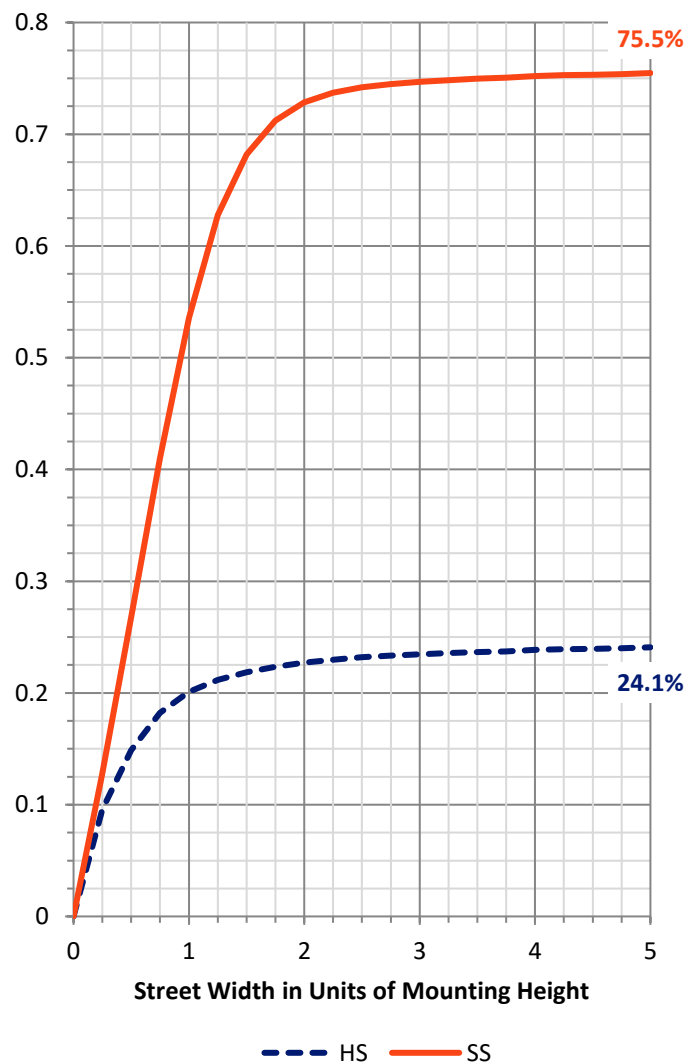
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6120.6	0.0	6120.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	19012.4	0.0	19012.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	25133.0	0.0	25133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	1.6
10°-20°	1208.6	4.8
20°-30°	2268.0	9.0
30°-40°	3488.7	13.9
40°-50°	4692.6	18.7
50°-60°	5549.6	22.1
60°-70°	5133.7	20.4
70°-80°	2159.7	8.6
80°-90°	239.0	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°	25133.0	100.0
0°-180°	25133.0	100.0

Coefficient of Utilization



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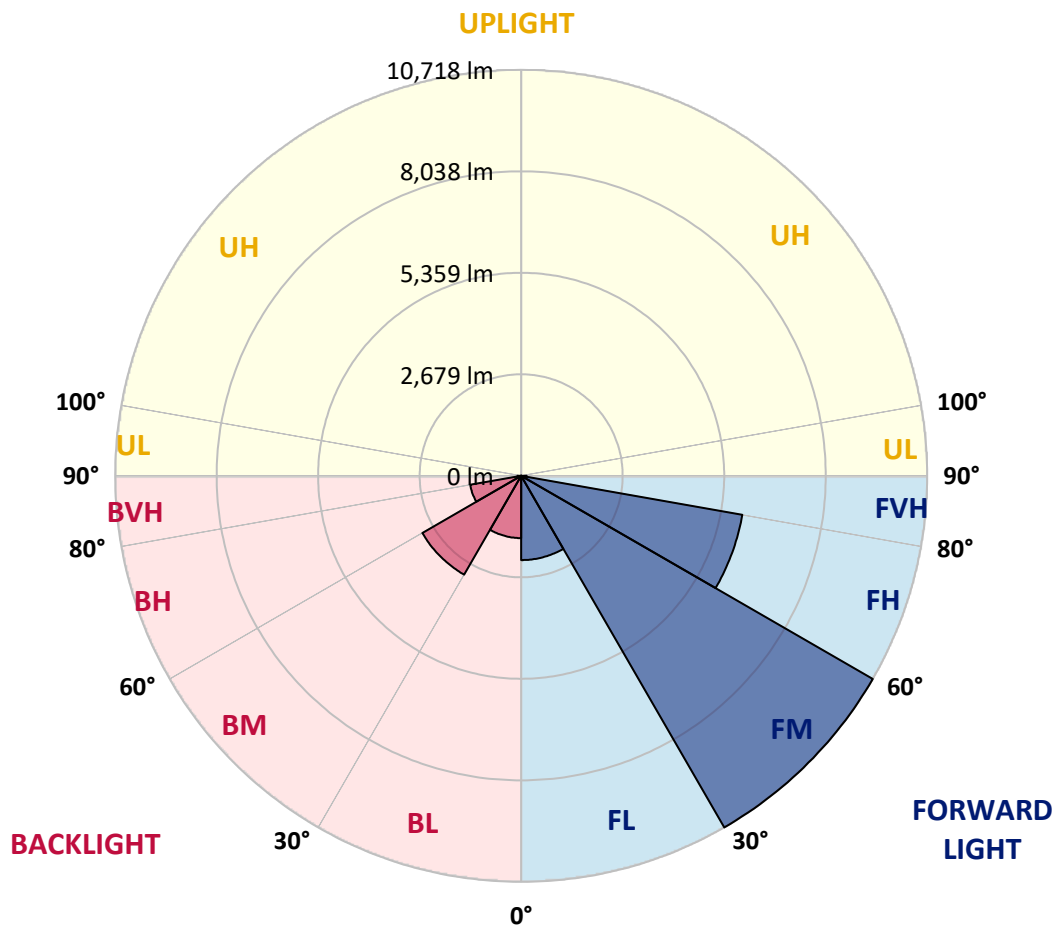
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2224.6	8.9			
FM	(30°-60°)	10717.8	42.6			
FH	(60°-80°)	5927.1	23.6			G3/7500
FVH	(80°-90°)	143.0	0.6			G2/225
BL	(0°-30°)	1645.1	6.5	B3/2500		
BM	(30°-60°)	3013.2	12.0	B3/5000		
BH	(60°-80°)	1366.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	96.0	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°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4107.2	4100.7	4113.7	4133.1	4142.8	4126.6	4120.1	4116.9	4116.9	4107.2	4123.4
5°	3913.2	3909.9	3939.0	3974.6	4042.5	4091.0	4155.7	4194.5	4181.6	4162.2	4175.1
7.5°	3660.9	3654.4	3690.0	3757.9	3851.7	3958.4	4116.9	4239.8	4288.3	4281.8	4278.6
10°	3757.9	3751.5	3748.2	3728.8	3761.2	3864.6	4029.6	4246.3	4411.2	4414.4	4417.7
12.5°	4094.3	4110.4	4094.3	4032.8	3961.7	3922.9	4019.9	4262.4	4514.7	4534.1	4614.9
15°	4553.5	4537.3	4505.0	4433.8	4323.9	4207.5	4136.3	4336.8	4663.4	4679.6	4857.5
17.5°	4957.7	4970.7	4951.3	4883.4	4754.0	4602.0	4385.3	4466.2	4821.9	4867.2	5116.2
20°	5397.6	5449.3	5423.4	5339.4	5232.6	5006.3	4734.6	4653.7	4996.6	5028.9	5384.6
22.5°	5905.3	5960.3	5911.8	5830.9	5743.6	5465.5	5116.2	4883.4	5142.1	5210.0	5643.4
25°	6513.3	6565.0	6519.8	6393.6	6283.7	5944.1	5526.9	5142.1	5284.4	5358.8	5853.6
27.5°	6995.2	7034.0	7076.0	7001.6	6833.5	6481.0	5953.8	5410.5	5426.7	5504.3	6047.6
30°	7425.3	7522.3	7557.9	7567.6	7425.3	7030.7	6390.4	5688.6	5549.6	5630.4	6241.6
32.5°	8013.9	8159.4	8101.2	8159.4	8075.3	7548.2	6843.2	5976.5	5708.0	5782.4	6426.0
35°	8874.1	8990.6	8838.6	8793.3	8657.5	8072.1	7279.8	6274.0	5918.2	5999.1	6600.6
37.5°	9799.1	9931.7	9711.7	9530.6	9271.9	8589.5	7654.9	6665.3	6209.3	6274.0	6762.3
40°	10607.6	10717.5	10526.7	10287.4	9854.0	9045.5	7978.3	6940.2	6500.4	6581.2	6949.9
42.5°	11354.6	11425.8	11212.3	10982.7	10403.8	9456.3	8327.6	7231.3	6839.9	6917.6	7101.9
45°	12111.4	12166.4	11868.8	11542.2	10863.1	9831.4	8712.4	7638.7	7338.0	7441.5	7347.7
47.5°	12247.2	12263.4	12211.6	11991.7	11225.3	10190.4	9187.8	8185.3	8098.0	8211.2	7771.3
50°	11306.1	11451.6	11771.8	11988.5	11370.8	10491.1	9663.2	8967.9	9145.8	9291.3	8651.0
52.5°	9478.9	9618.0	10358.5	11180.0	11021.5	10559.1	10174.2	9960.8	10623.7	10798.4	9847.6
55°	7551.4	7674.3	8456.9	9640.6	9892.8	10248.6	10720.8	11228.5	12509.2	12625.6	11160.6
57.5°	6219.0	6286.9	6846.4	7984.8	8389.0	9255.7	11015.1	12735.5	14426.9	14604.8	12302.2
60°	5100.0	5174.4	5591.6	6529.5	7066.3	7836.0	10782.2	14223.2	16716.6	16716.6	13767.2
62.5°	3838.8	3903.5	4291.5	5025.7	5927.9	6633.0	10038.4	15209.6	18443.6	18366.0	14828.0
65°	2635.7	2687.5	2968.8	3457.2	4268.9	5653.1	9022.9	15222.5	19588.4	19484.9	15280.7
66°	2212.1	2257.3	2496.7	2891.2	3573.6	5129.1	8663.9	14947.6	19827.7	19682.2	15089.9
67.5°	1746.4	1778.7	1937.2	2170.0	2619.6	4152.5	8098.0	14168.2	19805.1	19717.8	14604.8
70°	1248.3	1271.0	1387.4	1435.9	1549.1	2402.9	6432.5	12408.9	18217.2	18243.1	12696.7
72.5°	967.0	1002.5	1073.7	1083.4	1057.5	1277.4	3903.5	10352.1	14902.3	14892.6	9423.9
75°	779.4	798.8	834.4	853.8	847.3	824.7	1652.6	7722.8	10258.3	10378.0	5277.9
77.5°	614.5	611.2	643.6	669.4	688.8	646.8	756.8	4527.6	5378.2	5226.2	1982.5
80°	452.8	452.8	498.0	507.7	536.8	543.3	504.5	1746.4	1846.6	1678.5	514.2
82.5°	297.5	297.5	346.0	352.5	381.6	423.7	365.4	523.9	511.0	485.1	232.8
85°	161.7	155.2	171.4	194.0	210.2	249.0	219.9	262.0	268.4	265.2	155.2
87.5°	32.3	29.1	45.3	51.7	58.2	77.6	71.1	106.7	148.8	145.5	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°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4146.0	4142.8	4178.3	4220.4	4268.9	4298.0	4310.9	4333.6	4317.4	4323.9	4343.3
5°	4207.5	4217.2	4268.9	4323.9	4346.5	4330.3	4294.8	4281.8	4252.7	4246.3	4239.8
7.5°	4298.0	4314.2	4365.9	4378.9	4310.9	4197.8	4116.9	4071.6	4023.1	4010.2	4003.7
10°	4446.8	4456.5	4469.4	4336.8	4168.6	4016.6	3916.4	3874.3	3842.0	3816.1	3822.6
12.5°	4634.3	4627.9	4527.6	4252.7	4013.4	3858.2	3790.3	3764.4	3741.8	3725.6	3722.4
15°	4870.4	4825.1	4537.3	4136.3	3867.9	3738.5	3690.0	3680.3	3654.4	3654.4	3651.2
17.5°	5109.7	4993.3	4530.9	4013.4	3728.8	3657.7	3628.6	3622.1	3615.6	3612.4	3622.1
20°	5349.1	5142.1	4479.1	3861.4	3631.8	3589.8	3583.3	3586.5	3580.1	3589.8	3583.3
22.5°	5559.3	5239.1	4382.1	3699.7	3563.9	3560.6	3544.5	3550.9	3573.6	3576.8	3586.5
25°	5721.0	5274.7	4239.8	3550.9	3515.4	3508.9	3528.3	3554.2	3573.6	3576.8	3593.0
27.5°	5853.6	5255.3	4061.9	3434.5	3431.3	3466.9	3525.1	3534.8	3538.0	3538.0	3525.1
30°	5953.8	5213.2	3835.5	3305.2	3321.3	3408.7	3463.6	3463.6	3437.8	3431.3	3450.7
32.5°	5976.5	5158.3	3589.8	3172.6	3198.4	3301.9	3369.8	3347.2	3318.1	3318.1	3331.0
35°	5995.9	5083.9	3392.5	2991.5	3030.3	3153.2	3217.8	3172.6	3140.2	3130.5	3127.3
37.5°	5989.4	5054.8	3214.6	2761.8	2813.6	2933.3	2975.3	2933.3	2884.7	2862.1	2891.2
40°	5995.9	5035.4	2991.5	2509.6	2561.3	2632.5	2687.5	2655.1	2609.8	2551.6	2580.7
42.5°	6034.7	5061.2	2745.7	2263.8	2263.8	2302.6	2396.4	2373.8	2263.8	2241.2	2267.0
45°	6241.6	5200.3	2499.9	2018.0	1982.5	2008.3	2105.3	2008.3	1940.4	1940.4	1963.0
47.5°	6742.9	5459.0	2283.2	1801.3	1717.3	1769.0	1794.9	1704.3	1652.6	1639.6	1662.3
50°	7764.9	5976.5	2153.9	1623.5	1520.0	1558.8	1542.6	1539.4	1487.6	1494.1	1507.1
52.5°	9317.2	6985.5	2115.0	1536.2	1406.8	1416.5	1400.3	1406.8	1397.1	1429.4	1439.1
55°	11008.6	8049.5	2163.6	1549.1	1329.2	1261.3	1267.7	1300.1	1338.9	1390.6	1400.3
57.5°	12273.1	8583.1	2289.7	1636.4	1232.2	1128.7	1144.8	1206.3	1280.7	1322.7	1345.3
60°	13214.2	8518.4	2474.0	1659.0	1115.7	1009.0	1038.1	1128.7	1193.4	1228.9	1251.6
62.5°	13521.4	8114.1	2519.3	1494.1	963.7	895.8	967.0	1060.8	1089.9	1128.7	1144.8
65°	13269.2	7541.7	2189.4	1212.8	847.3	811.7	915.2	986.4	1025.2	1044.6	1047.8
66°	12971.6	7198.9	2011.6	1102.8	805.3	785.9	895.8	954.0	992.8	989.6	992.8
67.5°	12318.4	6481.0	1723.7	947.6	743.8	747.1	863.5	902.3	915.2	905.5	905.5
70°	10096.6	4563.2	1235.4	718.0	653.3	698.5	776.2	785.9	815.0	802.0	802.0
72.5°	6225.5	2241.2	827.9	549.8	582.1	653.3	650.0	682.4	750.3	769.7	782.6
75°	3059.4	908.8	546.5	465.7	520.7	546.5	540.1	620.9	718.0	802.0	831.1
77.5°	1161.0	452.8	381.6	407.5	420.4	410.7	430.1	562.7	718.0	869.9	899.1
80°	359.0	313.7	300.8	336.3	316.9	300.8	323.4	465.7	608.0	659.7	659.7
82.5°	216.7	245.8	232.8	229.6	213.4	216.7	232.8	333.1	468.9	491.6	491.6
85°	152.0	161.7	132.6	126.1	122.9	119.7	119.7	194.0	278.1	274.9	284.6
87.5°	58.2	64.7	48.5	48.5	45.3	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)