

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: P1211352

Luminaire Tested: **ARCH4-250-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24647 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.5
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

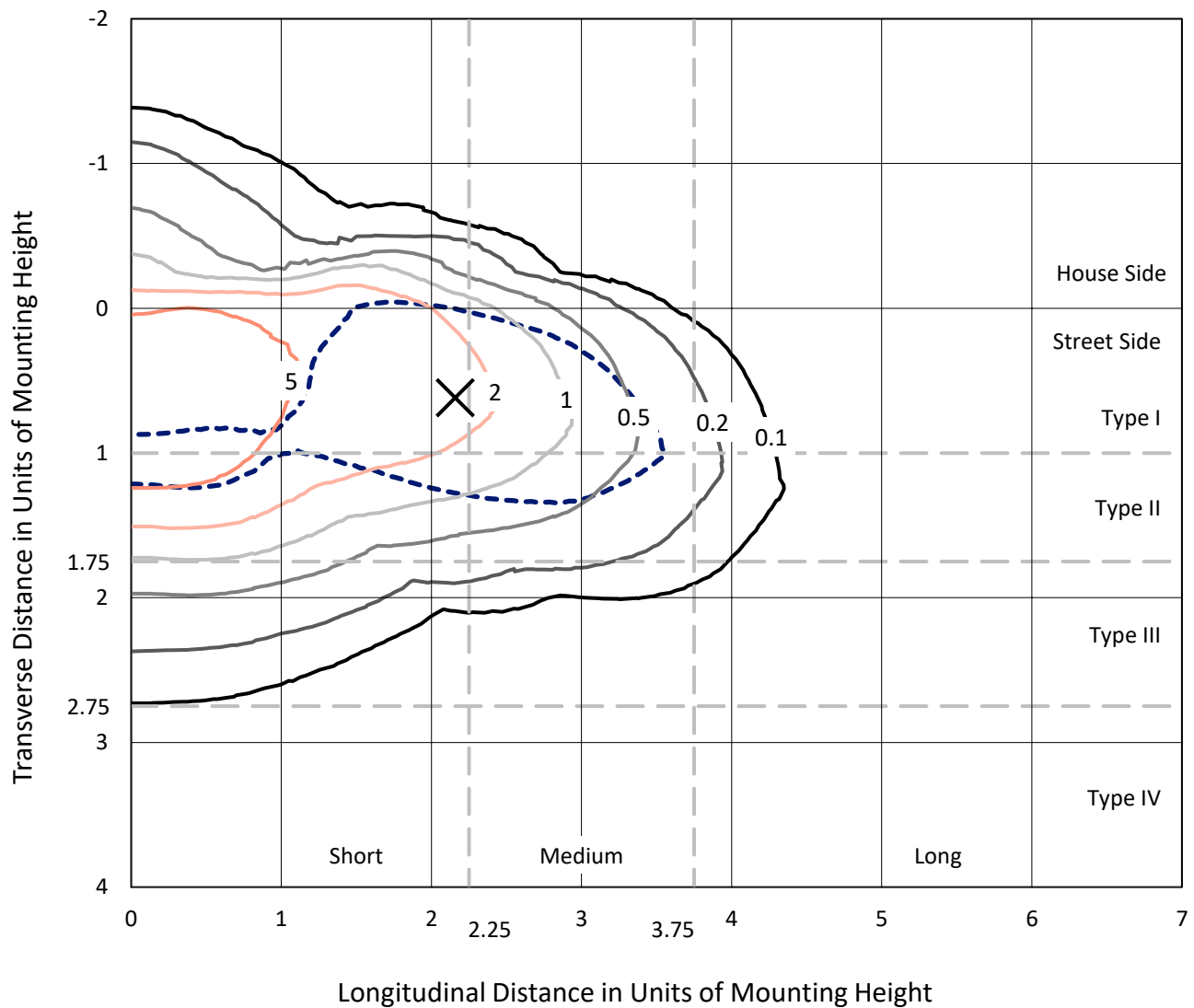


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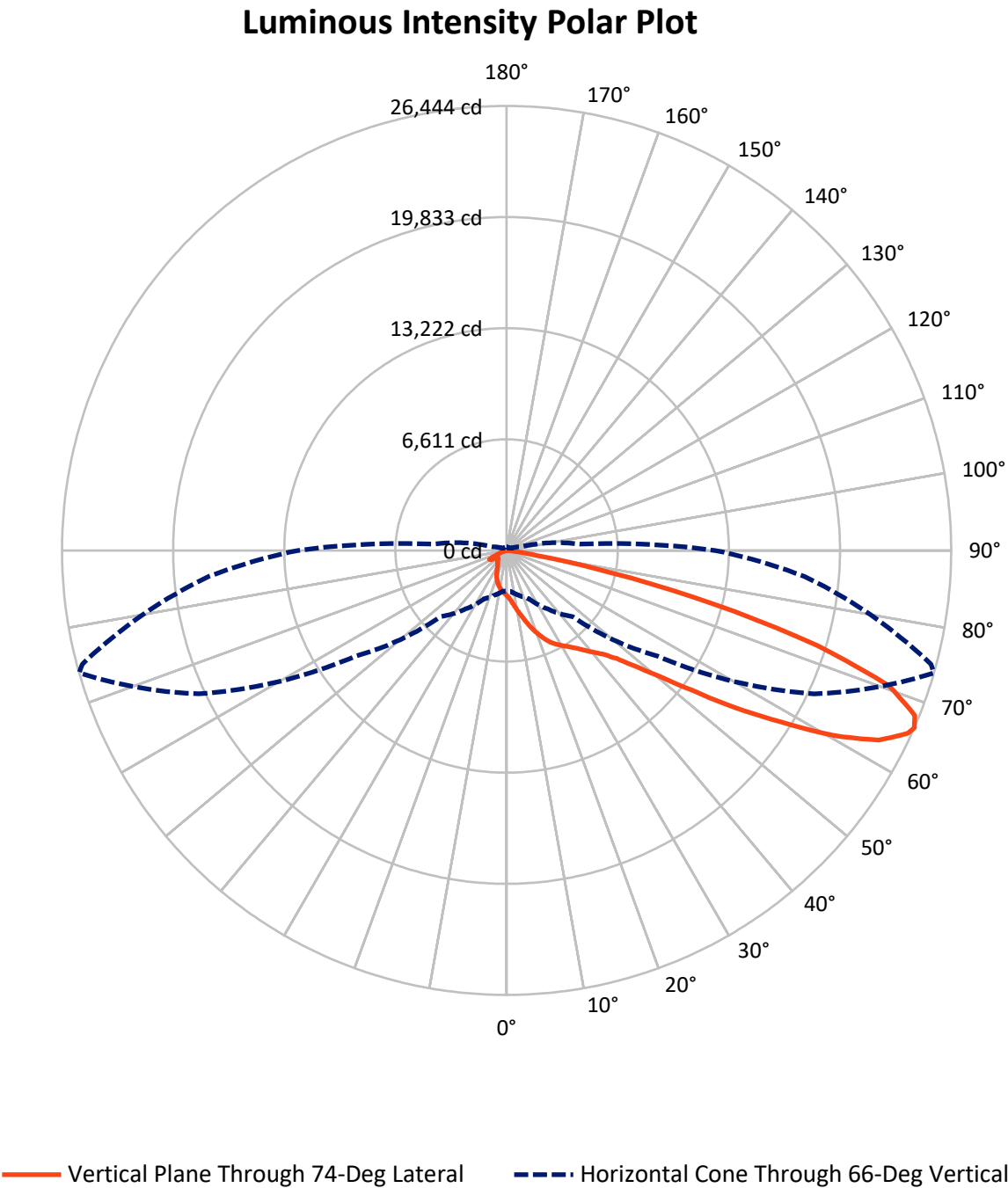
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Short - N/A

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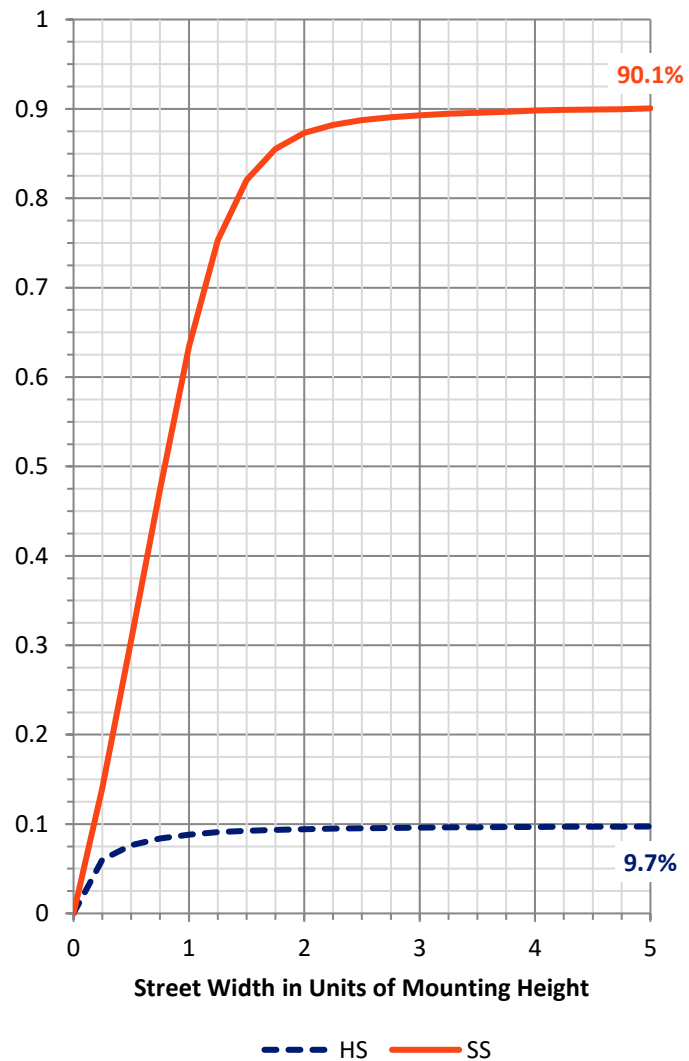
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2416.2	0.0	2416.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22230.8	0.0	22230.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	24647.0	0.0	24647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	1.1
10°-20°	841.9	3.4
20°-30°	1606.7	6.5
30°-40°	2816.1	11.4
40°-50°	4828.8	19.6
50°-60°	6280.2	25.5
60°-70°	5685.2	23.1
70°-80°	2193.7	8.9
80°-90°	132.0	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°	24647.0	100.0
0°-180°	24647.0	100.0

Coefficient of Utilization



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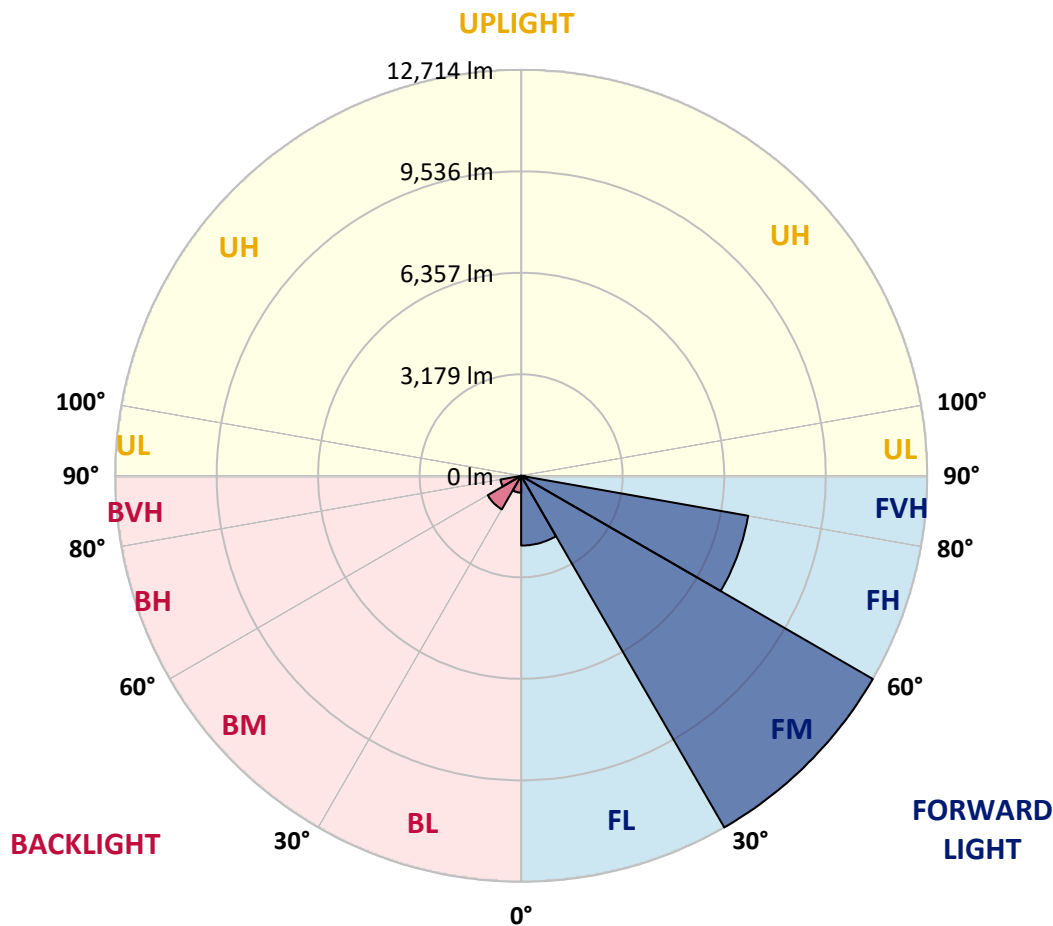
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2184.1	8.9			
FM	(30°-60°)	12714.2	51.6			
FH	(60°-80°)	7218.3	29.3			G3/7500
FVH	(80°-90°)	114.3	0.5			G2/225
BL	(0°-30°)	527.0	2.1	B2/1000		
BM	(30°-60°)	1210.9	4.9	B2/2500		
BH	(60°-80°)	660.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4
2.5°	3230.3	3203.7	3155.1	3150.6	3110.8	3062.1	2978.1	2889.6	2827.6	2818.8	2743.5
5°	3867.5	3854.2	3805.5	3774.6	3699.3	3584.3	3389.6	3194.9	3031.2	3013.5	2845.3
7.5°	4035.6	4044.5	4053.3	4084.3	4057.8	4004.7	3858.6	3584.3	3327.6	3287.8	2995.8
10°	4062.2	4053.3	4053.3	4093.2	4168.4	4243.6	4225.9	3991.4	3659.5	3610.8	3203.7
12.5°	4349.8	4363.1	4332.1	4314.4	4301.2	4341.0	4473.7	4372.0	4009.1	3969.3	3456.0
15°	4721.5	4717.1	4672.9	4672.9	4633.0	4566.7	4650.7	4726.0	4429.5	4380.8	3743.6
17.5°	4991.5	5009.2	5004.7	5031.3	5018.0	4929.5	4885.3	5040.1	4863.1	4801.2	4071.1
20°	5208.3	5257.0	5274.7	5358.7	5398.6	5336.6	5221.6	5318.9	5279.1	5221.6	4402.9
22.5°	5438.4	5478.2	5509.2	5655.2	5765.8	5752.6	5606.5	5584.4	5681.8	5628.7	4730.4
25°	5668.5	5686.2	5779.1	5956.1	6133.1	6177.4	6026.9	5854.3	6044.6	5995.9	5022.4
27.5°	5920.7	5929.6	6040.2	6257.0	6504.8	6597.8	6478.3	6159.7	6323.4	6323.4	5287.9
30°	6380.9	6469.4	6513.7	6708.4	6925.2	7053.5	6911.9	6482.7	6571.2	6611.0	5566.7
32.5°	7372.1	7385.4	7372.1	7456.2	7500.5	7575.7	7412.0	6845.6	6823.4	6867.7	5841.1
35°	8885.5	8832.4	8690.8	8566.9	8310.3	8168.7	7956.2	7310.2	7133.2	7195.1	6111.0
37.5°	10721.9	10646.7	10323.7	9943.1	9394.4	8828.0	8562.5	7876.6	7527.0	7606.7	6403.1
40°	12474.2	12425.6	12040.6	11571.5	10633.4	9664.3	9102.3	8354.5	7965.1	7996.1	6699.5
42.5°	13916.8	13907.9	13584.9	13093.7	11890.1	10567.0	9739.5	8823.6	8425.3	8474.0	7009.3
45°	15009.8	14925.7	14686.8	14332.8	13107.0	11505.1	10509.5	9536.0	9164.3	9221.8	7473.9
47.5°	15009.8	15023.1	15177.9	15142.5	13956.6	12385.7	11350.3	10434.3	10257.3	10310.4	8239.5
50°	13788.5	13912.4	14602.7	15182.4	14399.1	13071.6	12257.4	11558.2	11739.7	11819.3	9575.8
52.5°	11372.4	11580.4	12779.6	14102.6	14071.7	13416.8	13195.5	12987.5	13801.7	13943.3	11549.4
55°	8642.1	8779.3	10341.4	12080.4	12646.8	13133.6	14014.1	14801.8	16532.0	16501.0	13553.9
57.5°	6456.2	6584.5	7929.7	9859.0	10606.9	11907.8	14434.5	16877.2	19240.1	19359.6	15434.6
60°	4748.1	4845.4	5991.5	7575.7	8655.4	10031.6	14266.4	18921.5	22359.8	22222.6	17094.0
62.5°	3513.5	3566.6	4394.1	5425.1	6858.8	8173.1	13208.8	20319.9	24851.1	24572.3	18018.8
65°	2717.0	2734.7	3163.9	3712.6	4987.0	6354.4	11633.5	20532.3	26227.3	25930.8	18001.1
66°	2420.5	2433.8	2748.0	3172.8	4243.6	5562.3	10943.2	20191.5	26444.1	26129.9	17779.9
67.5°	2031.1	2022.2	2208.1	2486.9	3186.0	4292.3	9717.4	19195.9	26187.5	26028.2	17071.9
70°	1504.5	1508.9	1601.9	1668.2	1862.9	2376.3	7018.1	16651.5	24134.2	24125.4	15129.3
72.5°	1115.1	1128.4	1199.2	1212.5	1163.8	1287.7	4044.5	13244.2	19306.5	19310.9	11310.4
75°	836.3	858.5	880.6	889.4	845.2	814.2	1827.5	8912.1	12699.9	12607.0	6403.1
77.5°	637.2	646.1	663.8	650.5	641.6	562.0	761.1	4345.4	6270.3	5712.7	2075.4
80°	464.6	464.6	482.3	464.6	460.2	402.7	416.0	1393.9	1840.8	1531.1	446.9
82.5°	292.1	287.6	300.9	296.5	287.6	256.7	243.4	389.4	424.8	380.6	216.8
85°	163.7	159.3	154.9	150.5	137.2	115.1	132.8	146.0	194.7	199.1	154.9
87.5°	57.5	57.5	53.1	48.7	39.8	39.8	48.7	48.7	70.8	70.8	79.7
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°	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4	2690.4
2.5°	2708.1	2659.5	2588.7	2495.7	2429.4	2363.0	2292.2	2252.4	2194.8	2181.6	2199.3
5°	2756.8	2668.3	2491.3	2296.6	2128.5	1978.0	1836.4	1752.3	1668.2	1637.3	1650.5
7.5°	2858.6	2708.1	2407.2	2093.1	1814.3	1588.6	1420.4	1323.1	1247.9	1216.9	1225.7
10°	3009.0	2778.9	2327.6	1862.9	1504.5	1265.6	1124.0	1062.0	1017.8	1000.1	1004.5
12.5°	3190.5	2880.7	2225.8	1632.8	1239.0	1031.0	964.7	951.4	942.5	933.7	938.1
15°	3394.0	2969.2	2106.3	1407.2	1031.0	916.0	893.9	889.4	885.0	885.0	885.0
17.5°	3606.4	3048.9	1973.6	1194.8	898.3	845.2	831.9	831.9	831.9	836.3	836.3
20°	3805.5	3110.8	1818.7	1004.5	823.1	778.8	770.0	770.0	774.4	778.8	778.8
22.5°	4000.2	3137.4	1637.3	871.7	761.1	721.3	708.0	708.0	708.0	712.4	712.4
25°	4168.4	3137.4	1455.8	787.7	708.0	668.2	650.5	646.1	650.5	650.5	650.5
27.5°	4310.0	3124.1	1278.8	730.1	654.9	615.1	597.4	593.0	601.8	606.2	606.2
30°	4460.5	3106.4	1137.2	677.0	610.7	570.8	553.1	553.1	566.4	584.1	584.1
32.5°	4606.5	3119.7	1026.6	632.8	566.4	535.4	517.7	522.2	548.7	575.3	575.3
35°	4761.4	3146.2	960.2	601.8	535.4	504.5	491.2	504.5	531.0	557.6	557.6
37.5°	4916.2	3177.2	920.4	575.3	508.9	477.9	469.1	486.8	517.7	544.3	548.7
40°	5080.0	3203.7	876.2	548.7	491.2	455.8	451.4	469.1	508.9	535.4	539.9
42.5°	5283.5	3256.8	823.1	526.6	473.5	429.2	433.7	446.9	486.8	526.6	531.0
45°	5681.8	3425.0	770.0	504.5	451.4	416.0	407.1	416.0	460.2	504.5	513.3
47.5°	6429.6	3805.5	712.4	482.3	429.2	407.1	371.7	380.6	420.4	469.1	473.5
50°	7863.3	4615.3	681.5	460.2	411.5	376.1	336.3	336.3	367.3	411.5	411.5
52.5°	10098.0	6066.7	699.2	442.5	389.4	345.2	305.3	300.9	318.6	349.6	349.6
55°	12509.6	7659.8	765.5	424.8	362.9	327.5	283.2	261.1	274.4	292.1	292.1
57.5°	14421.3	8460.7	947.0	416.0	331.9	314.2	256.7	225.7	239.0	256.7	256.7
60°	15262.0	7991.6	1150.5	424.8	309.8	292.1	230.1	199.1	221.3	239.0	243.4
62.5°	14580.6	6580.1	1234.6	402.7	278.8	261.1	225.7	185.9	212.4	225.7	230.1
65°	13107.0	5000.3	964.7	349.6	256.7	225.7	203.6	177.0	199.1	212.4	212.4
66°	12407.9	4358.7	823.1	323.0	247.8	212.4	194.7	177.0	194.7	203.6	208.0
67.5°	11323.7	3438.3	610.7	283.2	230.1	194.7	181.4	168.2	185.9	194.7	194.7
70°	8854.5	2048.8	367.3	221.3	199.1	172.6	163.7	154.9	168.2	172.6	172.6
72.5°	5544.6	973.5	234.5	163.7	168.2	163.7	137.2	146.0	150.5	154.9	154.9
75°	2686.0	385.0	159.3	119.5	137.2	154.9	110.6	128.3	132.8	141.6	137.2
77.5°	747.8	185.9	101.8	88.5	119.5	119.5	84.1	101.8	119.5	150.5	137.2
80°	216.8	119.5	66.4	66.4	84.1	84.1	57.5	70.8	79.7	88.5	92.9
82.5°	150.5	79.7	44.3	48.7	48.7	53.1	35.4	35.4	44.3	44.3	48.7
85°	119.5	35.4	26.6	31.0	22.1	26.6	17.7	17.7	22.1	17.7	17.7
87.5°	48.7	17.7	17.7	17.7	13.3	13.3	8.9	4.4	4.4	4.4	4.4
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)