

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: P1211316

Luminaire Tested: **ARCH4-240-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211316
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: ARCH4-240-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA 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: 21718 lumens
Efficiency: N/A
Efficacy: 90.4 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): 240.2
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



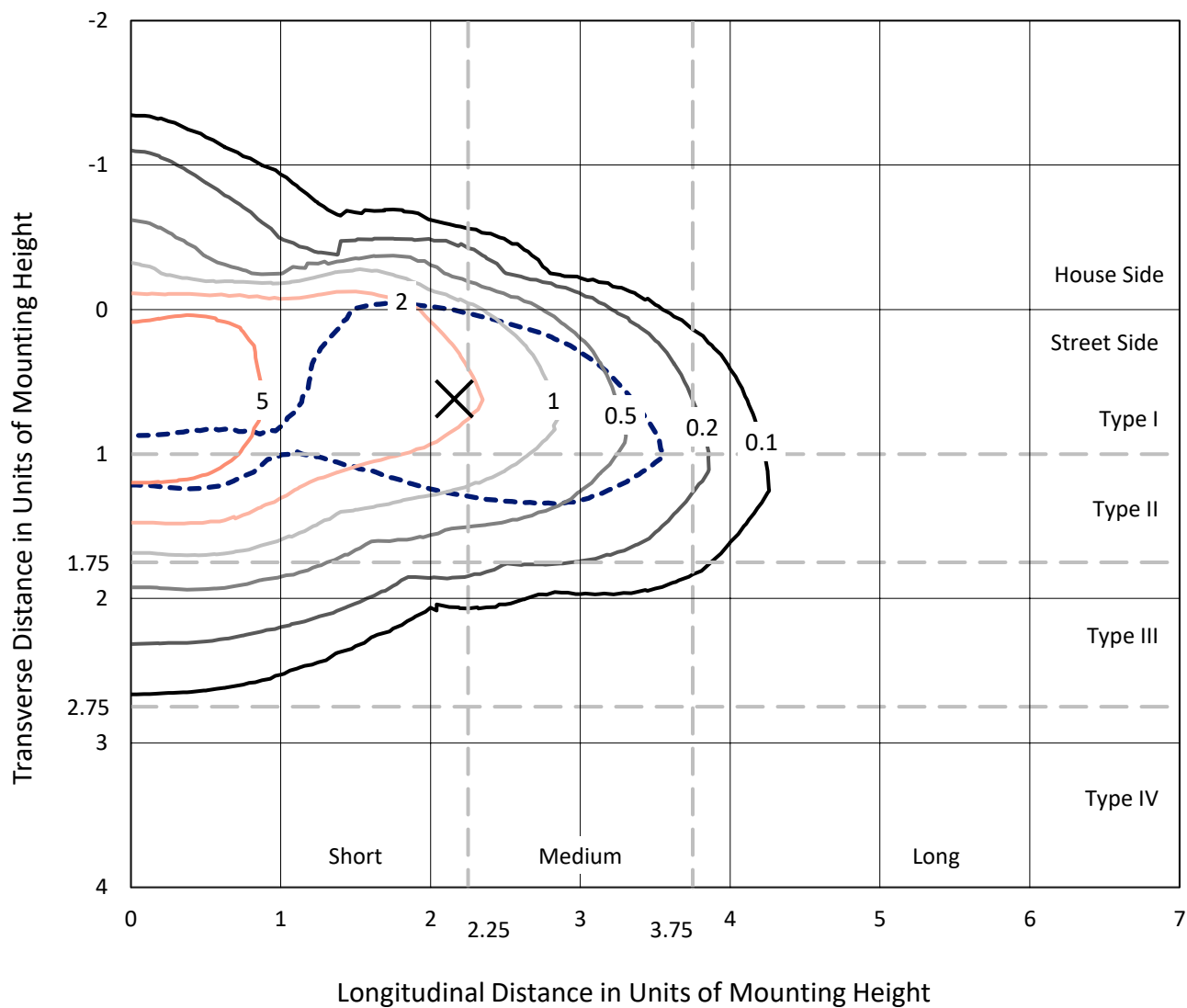
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Iso-Footcandle Lines of Horizontal Illumination

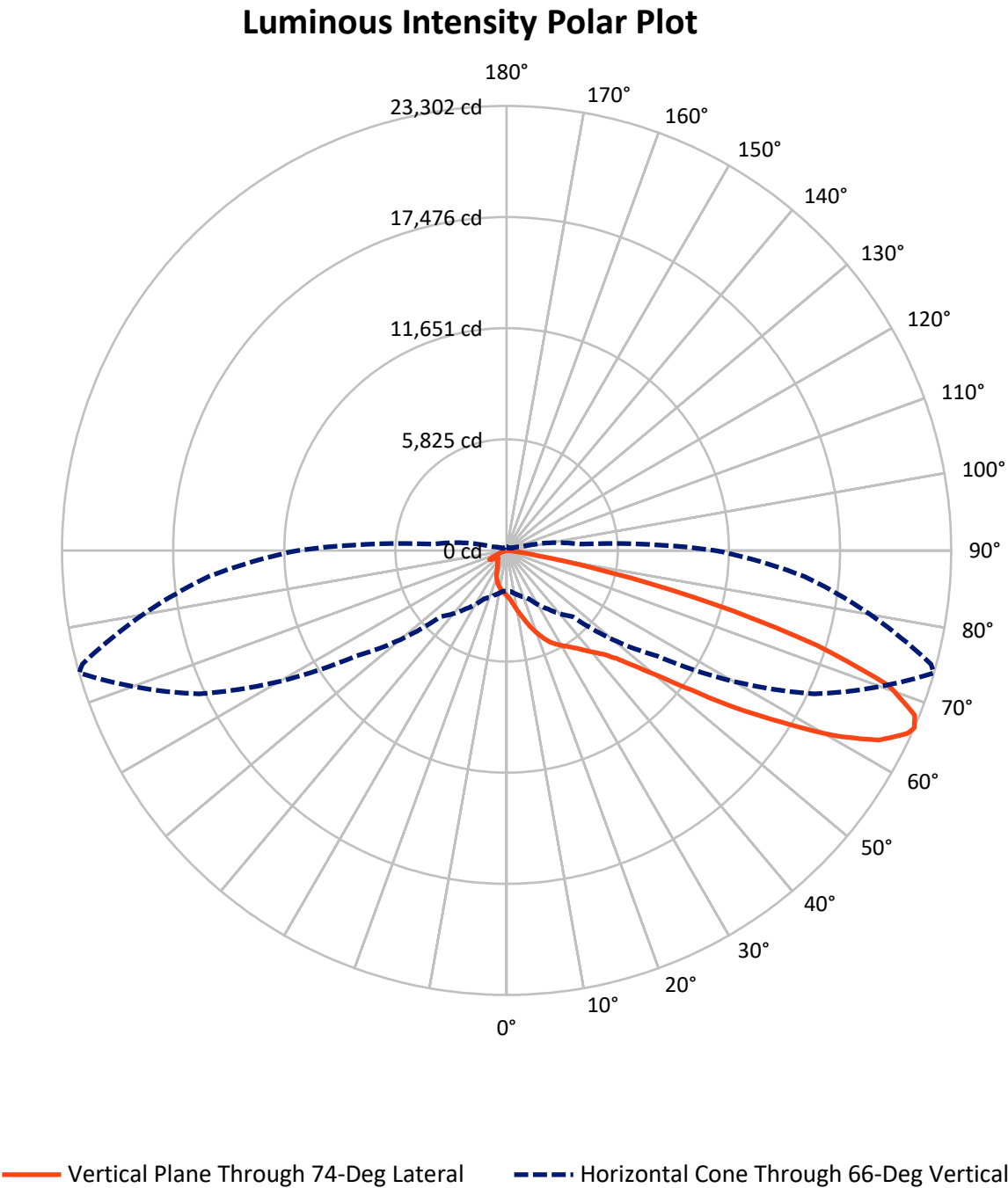
✕ Max cd

--- 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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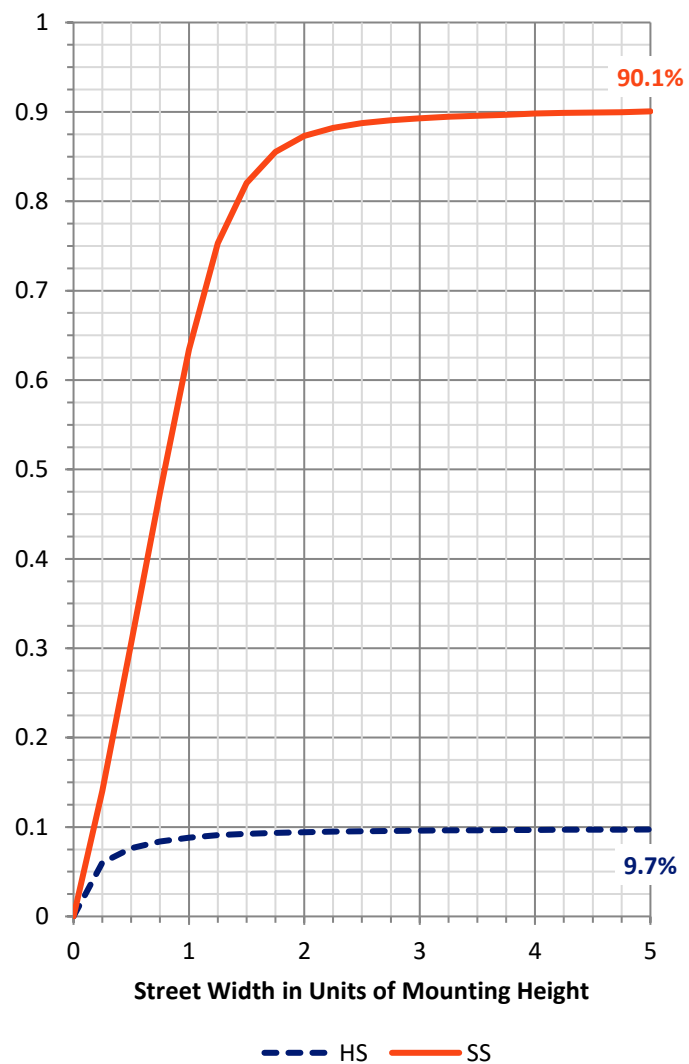
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.1	0.0	2129.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	19589.0	0.0	19589.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	21718.0	0.0	21718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	741.8	3.4
20°-30°	1415.7	6.5
30°-40°	2481.4	11.4
40°-50°	4254.9	19.6
50°-60°	5533.9	25.5
60°-70°	5009.6	23.1
70°-80°	1933.0	8.9
80°-90°	116.3	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°	21718.0	100.0
0°-180°	21718.0	100.0

Coefficient of Utilization



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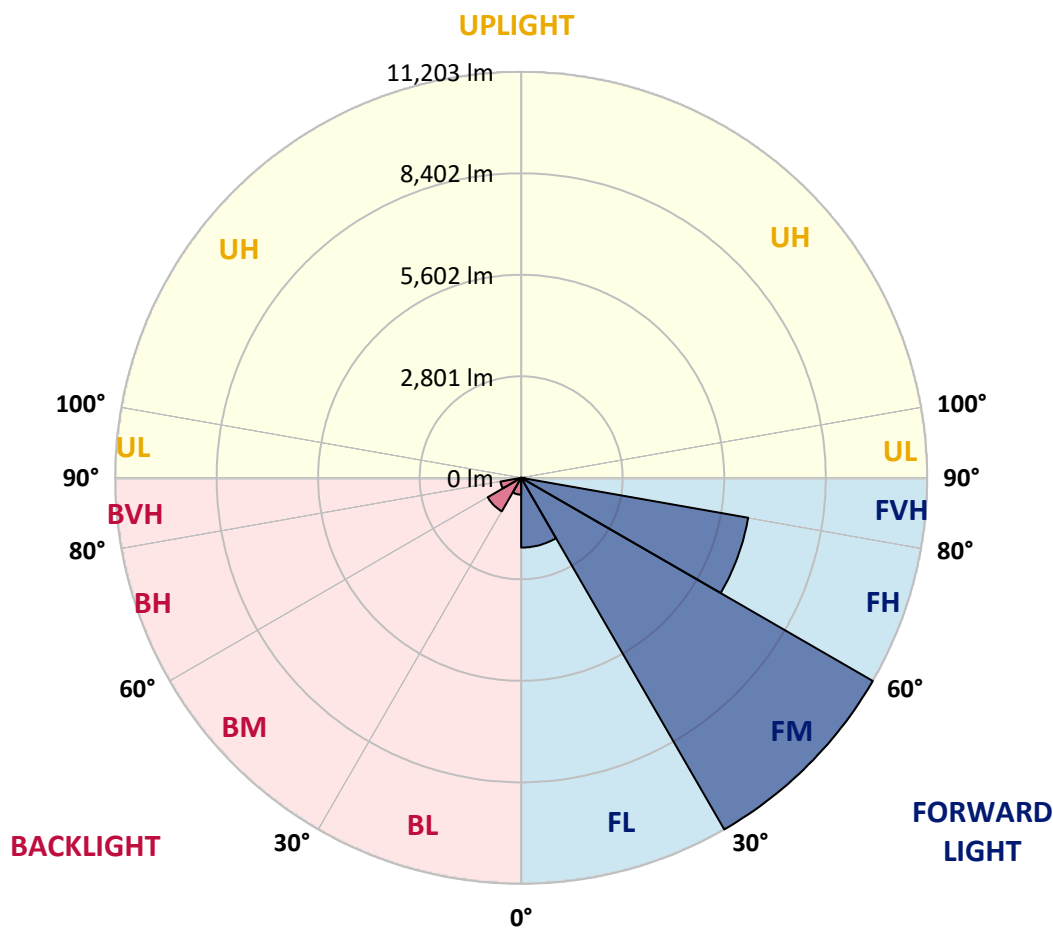
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.5	8.9			
FM	(30°-60°)	11203.2	51.6			
FH	(60°-80°)	6360.5	29.3			G3/7500
FVH	(80°-90°)	100.7	0.5			G2/225
BL	(0°-30°)	464.4	2.1	B1/500		
BM	(30°-60°)	1067.0	4.9	B2/2500		
BH	(60°-80°)	582.1	2.7	B2/1000		G2/1000
BVH	(80°-90°)	15.6	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°	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7
2.5°	2846.4	2823.0	2780.1	2776.2	2741.1	2698.2	2624.2	2546.2	2491.6	2483.8	2417.5
5°	3407.9	3396.2	3353.3	3326.0	3259.7	3158.3	2986.8	2815.2	2670.9	2655.3	2507.2
7.5°	3556.1	3563.9	3571.7	3599.0	3575.6	3528.8	3400.1	3158.3	2932.2	2897.1	2639.8
10°	3579.5	3571.7	3571.7	3606.8	3673.0	3739.3	3723.7	3517.1	3224.6	3181.7	2823.0
12.5°	3832.9	3844.6	3817.3	3801.7	3790.0	3825.1	3942.1	3852.4	3532.7	3497.6	3045.3
15°	4160.4	4156.5	4117.5	4117.5	4082.5	4024.0	4098.0	4164.3	3903.1	3860.2	3298.7
17.5°	4398.3	4413.9	4410.0	4433.4	4421.7	4343.7	4304.7	4441.2	4285.2	4230.6	3587.3
20°	4589.3	4632.2	4647.8	4721.9	4757.0	4702.4	4601.0	4686.8	4651.7	4601.0	3879.7
22.5°	4792.1	4827.2	4854.5	4983.2	5080.6	5068.9	4940.3	4920.8	5006.6	4959.8	4168.2
25°	4994.9	5010.5	5092.3	5248.3	5404.3	5443.3	5310.7	5158.6	5326.3	5283.4	4425.6
27.5°	5217.1	5224.9	5322.4	5513.5	5731.8	5813.7	5708.4	5427.7	5571.9	5571.9	4659.5
30°	5622.6	5700.6	5739.6	5911.2	6102.2	6215.3	6090.5	5712.3	5790.3	5825.4	4905.2
32.5°	6496.1	6507.7	6496.1	6570.1	6609.1	6675.4	6531.1	6032.0	6012.6	6051.5	5146.9
35°	7829.6	7782.8	7658.0	7548.8	7322.7	7197.9	7010.7	6441.5	6285.5	6340.1	5384.8
37.5°	9447.7	9381.5	9096.8	8761.5	8278.0	7778.9	7544.9	6940.6	6632.5	6702.7	5642.1
40°	10991.8	10948.9	10609.7	10196.4	9369.8	8515.8	8020.6	7361.7	7018.5	7045.8	5903.4
42.5°	12263.0	12255.2	11970.5	11537.7	10477.1	9311.3	8582.1	7775.0	7424.1	7466.9	6176.3
45°	13226.1	13152.0	12941.4	12629.5	11549.4	10137.9	9260.6	8402.8	8075.2	8125.9	6585.7
47.5°	13226.1	13237.7	13374.2	13343.0	12298.0	10913.8	10001.4	9194.3	9038.3	9085.1	7260.3
50°	12149.9	12259.1	12867.3	13378.1	12688.0	11518.2	10800.8	10184.7	10344.6	10414.7	8437.8
52.5°	10020.9	10204.2	11260.9	12426.7	12399.4	11822.3	11627.4	11444.1	12161.6	12286.3	10176.9
55°	7615.1	7736.0	9112.4	10644.8	11143.9	11572.8	12348.7	13042.8	14567.4	14540.1	11943.2
57.5°	5688.9	5802.0	6987.3	8687.4	9346.4	10492.7	12719.2	14871.5	16953.7	17059.0	13600.4
60°	4183.8	4269.6	5279.5	6675.4	7626.8	8839.5	12571.0	16672.9	19702.6	19581.7	15062.6
62.5°	3096.0	3142.7	3871.9	4780.4	6043.7	7201.8	11639.1	17905.1	21897.9	21652.2	15877.5
65°	2394.1	2409.7	2787.9	3271.4	4394.4	5599.2	10251.0	18092.2	23110.5	22849.3	15861.9
66°	2132.9	2144.6	2421.4	2795.7	3739.3	4901.3	9642.7	17792.0	23301.6	23024.7	15666.9
67.5°	1789.7	1781.9	1945.7	2191.3	2807.4	3782.2	8562.6	16914.7	23075.4	22935.0	15043.1
70°	1325.7	1329.6	1411.5	1470.0	1641.6	2093.9	6184.1	14672.7	21266.2	21258.4	13331.3
72.5°	982.6	994.3	1056.7	1068.4	1025.5	1134.7	3563.9	11670.3	17012.2	17016.1	9966.3
75°	736.9	756.4	775.9	783.7	744.7	717.5	1610.4	7853.0	11190.7	11108.8	5642.1
77.5°	561.5	569.3	584.9	573.2	565.4	495.2	670.7	3829.0	5525.2	5033.9	1828.7
80°	409.4	409.4	425.0	409.4	405.5	354.8	366.5	1228.2	1622.1	1349.1	393.8
82.5°	257.3	253.4	265.1	261.2	253.4	226.2	214.5	343.1	374.3	335.3	191.1
85°	144.3	140.4	136.5	132.6	120.9	101.4	117.0	128.7	171.6	175.5	136.5
87.5°	50.7	50.7	46.8	42.9	35.1	35.1	42.9	42.9	62.4	62.4	70.2
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°	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7	2370.7
2.5°	2386.3	2343.4	2281.0	2199.1	2140.7	2082.2	2019.8	1984.7	1934.0	1922.3	1937.9
5°	2429.2	2351.2	2195.2	2023.7	1875.5	1742.9	1618.2	1544.1	1470.0	1442.7	1454.4
7.5°	2518.9	2386.3	2121.2	1844.3	1598.7	1399.8	1251.6	1165.9	1099.6	1072.3	1080.1
10°	2651.4	2448.7	2051.0	1641.6	1325.7	1115.2	990.4	935.8	896.8	881.2	885.1
12.5°	2811.3	2538.4	1961.3	1438.8	1091.8	908.5	850.0	838.3	830.5	822.7	826.6
15°	2990.7	2616.4	1856.0	1239.9	908.5	807.1	787.6	783.7	779.8	779.8	779.8
17.5°	3177.8	2686.5	1739.0	1052.8	791.5	744.7	733.0	733.0	733.0	736.9	736.9
20°	3353.3	2741.1	1602.6	885.1	725.2	686.3	678.5	678.5	682.4	686.3	686.3
22.5°	3524.9	2764.5	1442.7	768.1	670.7	635.6	623.9	623.9	623.9	627.8	627.8
25°	3673.0	2764.5	1282.8	694.1	623.9	588.8	573.2	569.3	573.2	573.2	573.2
27.5°	3797.8	2752.8	1126.9	643.4	577.1	542.0	526.4	522.5	530.3	534.2	534.2
30°	3930.4	2737.2	1002.1	596.6	538.1	503.0	487.4	487.4	499.1	514.7	514.7
32.5°	4059.1	2748.9	904.6	557.6	499.1	471.8	456.2	460.1	483.5	506.9	506.9
35°	4195.5	2772.3	846.1	530.3	471.8	444.5	432.8	444.5	467.9	491.3	491.3
37.5°	4332.0	2799.6	811.0	506.9	448.4	421.1	413.3	428.9	456.2	479.6	483.5
40°	4476.3	2823.0	772.0	483.5	432.8	401.6	397.7	413.3	448.4	471.8	475.7
42.5°	4655.6	2869.8	725.2	464.0	417.2	378.2	382.1	393.8	428.9	464.0	467.9
45°	5006.6	3018.0	678.5	444.5	397.7	366.5	358.7	366.5	405.5	444.5	452.3
47.5°	5665.5	3353.3	627.8	425.0	378.2	358.7	327.5	335.3	370.4	413.3	417.2
50°	6928.9	4066.9	600.5	405.5	362.6	331.4	296.3	296.3	323.6	362.6	362.6
52.5°	8898.0	5345.8	616.1	389.9	343.1	304.1	269.0	265.1	280.7	308.0	308.0
55°	11023.0	6749.5	674.6	374.3	319.7	288.5	249.5	230.1	241.7	257.3	257.3
57.5°	12707.5	7455.3	834.4	366.5	292.4	276.8	226.2	198.9	210.6	226.2	226.2
60°	13448.3	7041.9	1013.8	374.3	272.9	257.3	202.8	175.5	195.0	210.6	214.5
62.5°	12847.8	5798.1	1087.9	354.8	245.6	230.1	198.9	163.8	187.2	198.9	202.8
65°	11549.4	4406.1	850.0	308.0	226.2	198.9	179.4	156.0	175.5	187.2	187.2
66°	10933.3	3840.7	725.2	284.6	218.4	187.2	171.6	156.0	171.6	179.4	183.3
67.5°	9978.0	3029.7	538.1	249.5	202.8	171.6	159.9	148.2	163.8	171.6	171.6
70°	7802.3	1805.3	323.6	195.0	175.5	152.1	144.3	136.5	148.2	152.1	152.1
72.5°	4885.7	857.8	206.7	144.3	148.2	144.3	120.9	128.7	132.6	136.5	136.5
75°	2366.8	339.2	140.4	105.3	120.9	136.5	97.5	113.1	117.0	124.8	120.9
77.5°	659.0	163.8	89.7	78.0	105.3	105.3	74.1	89.7	105.3	132.6	120.9
80°	191.1	105.3	58.5	58.5	74.1	74.1	50.7	62.4	70.2	78.0	81.9
82.5°	132.6	70.2	39.0	42.9	42.9	46.8	31.2	31.2	39.0	39.0	42.9
85°	105.3	31.2	23.4	27.3	19.5	23.4	15.6	15.6	19.5	15.6	15.6
87.5°	42.9	15.6	15.6	15.6	11.7	11.7	7.8	3.9	3.9	3.9	3.9
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)