

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: P1211252

Luminaire Tested: **ARCH4-220-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211252
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: ARCH4-220-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA 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: 20389 lumens
Efficiency: N/A
Efficacy: 91.9 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): 221.8
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

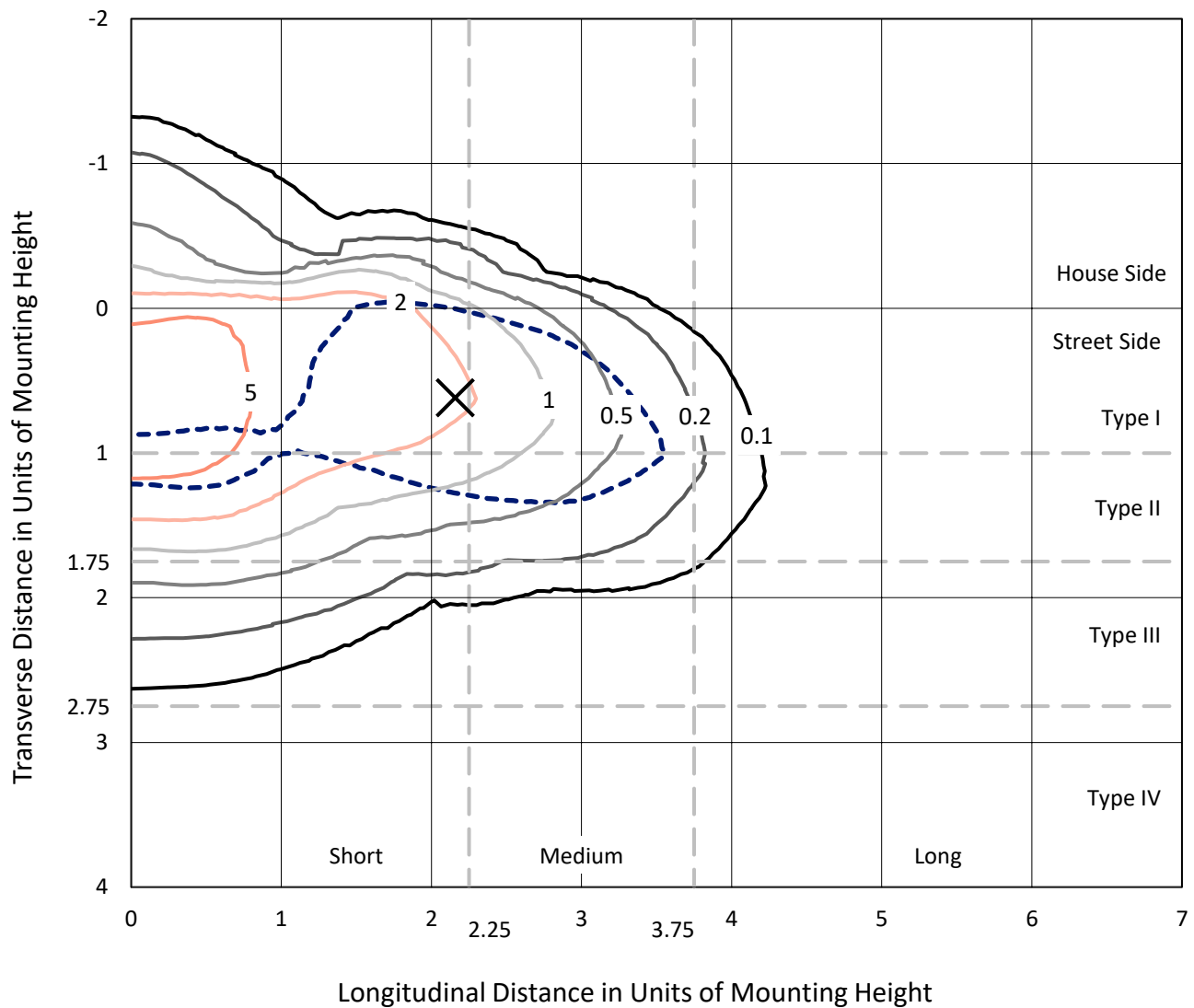


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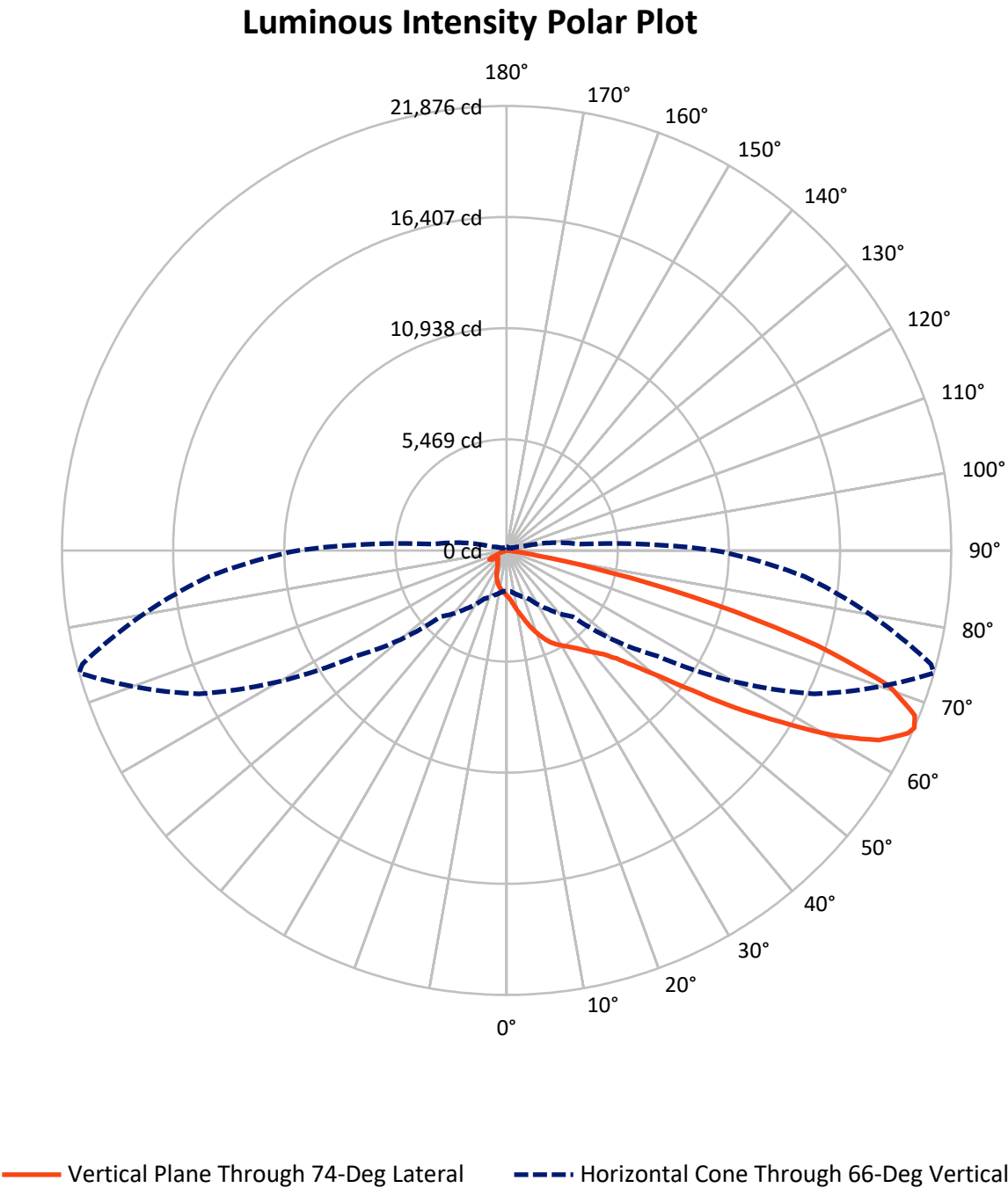
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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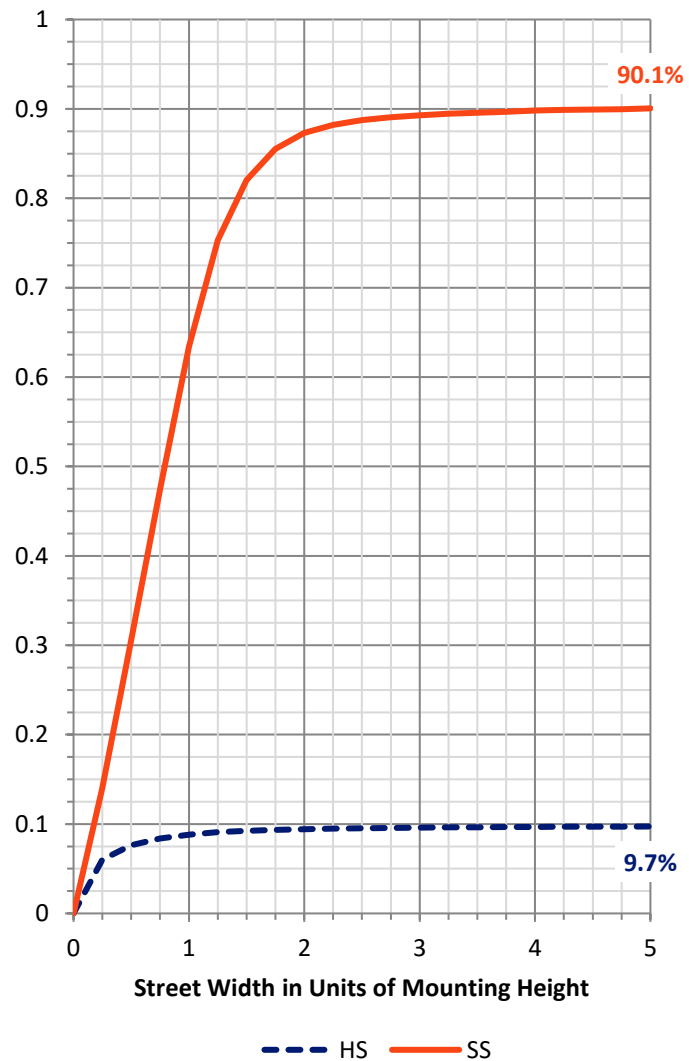
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1998.8	0.0	1998.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18390.2	0.0	18390.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	20389.0	0.0	20389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	1.1
10°-20°	696.4	3.4
20°-30°	1329.1	6.5
30°-40°	2329.6	11.4
40°-50°	3994.6	19.6
50°-60°	5195.3	25.5
60°-70°	4703.0	23.1
70°-80°	1814.7	8.9
80°-90°	109.2	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°	20389.0	100.0
0°-180°	20389.0	100.0

Coefficient of Utilization



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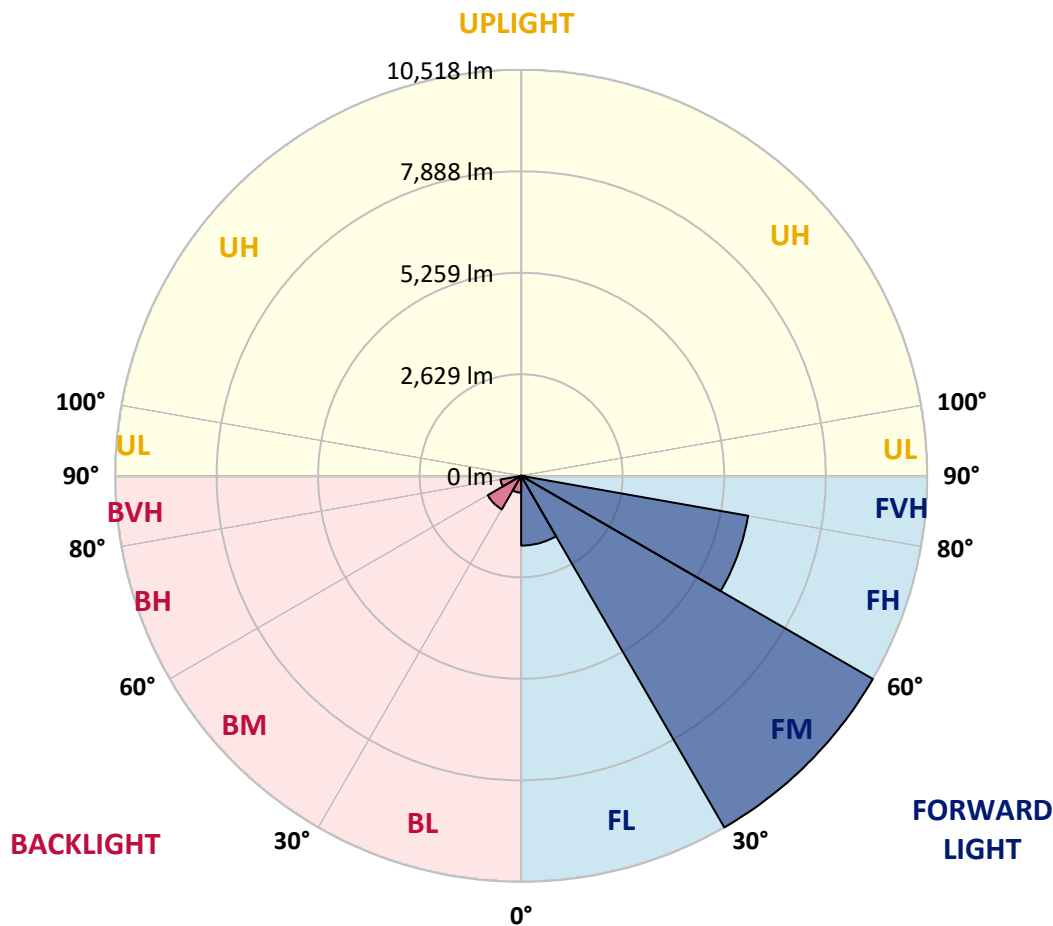
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1806.8	8.9			
FM	(30°-60°)	10517.7	51.6			
FH	(60°-80°)	5971.2	29.3			G3/7500
FVH	(80°-90°)	94.6	0.5			G1/100
BL	(0°-30°)	436.0	2.1	B1/500		
BM	(30°-60°)	1001.7	4.9	B2/2500		
BH	(60°-80°)	546.4	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.6	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°	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6
2.5°	2672.2	2650.3	2610.0	2606.3	2573.4	2533.1	2463.6	2390.4	2339.1	2331.8	2269.6
5°	3199.4	3188.4	3148.1	3122.5	3060.2	2965.1	2804.0	2642.9	2507.5	2492.9	2353.8
7.5°	3338.5	3345.8	3353.1	3378.7	3356.8	3312.8	3192.0	2965.1	2752.8	2719.8	2478.2
10°	3360.4	3353.1	3353.1	3386.0	3448.3	3510.5	3495.9	3301.8	3027.3	2987.0	2650.3
12.5°	3598.4	3609.3	3583.7	3569.1	3558.1	3591.0	3700.9	3616.7	3316.5	3283.5	2858.9
15°	3905.8	3902.2	3865.6	3865.6	3832.6	3777.7	3847.3	3909.5	3664.2	3624.0	3096.9
17.5°	4129.1	4143.8	4140.1	4162.1	4151.1	4077.9	4041.3	4169.4	4023.0	3971.7	3367.7
20°	4308.5	4348.8	4363.4	4433.0	4465.9	4414.7	4319.5	4400.0	4367.1	4319.5	3642.3
22.5°	4498.9	4531.8	4557.4	4678.2	4769.7	4758.8	4638.0	4619.7	4700.2	4656.3	3913.2
25°	4689.2	4703.9	4780.7	4927.1	5073.6	5110.2	4985.7	4843.0	5000.4	4960.1	4154.8
27.5°	4897.9	4905.2	4996.7	5176.1	5381.1	5457.9	5359.1	5095.5	5231.0	5231.0	4374.4
30°	5278.6	5351.8	5388.4	5549.4	5728.8	5835.0	5717.8	5362.8	5436.0	5468.9	4605.0
32.5°	6098.5	6109.5	6098.5	6168.1	6204.7	6266.9	6131.5	5662.9	5644.6	5681.2	4832.0
35°	7350.5	7306.5	7189.4	7086.9	6874.6	6757.4	6581.7	6047.3	5900.9	5952.1	5055.3
37.5°	8869.6	8807.4	8540.1	8225.3	7771.4	7302.9	7083.2	6515.8	6226.7	6292.5	5296.9
40°	10319.2	10278.9	9960.5	9572.4	8796.4	7994.7	7529.8	6911.2	6589.1	6614.7	5542.1
42.5°	11512.5	11505.2	11238.0	10831.7	9836.0	8741.5	8056.9	7299.2	6969.8	7010.0	5798.4
45°	12416.7	12347.2	12149.5	11856.6	10842.7	9517.5	8693.9	7888.6	7581.1	7628.7	6182.7
47.5°	12416.7	12427.7	12555.8	12526.5	11545.5	10246.0	9389.4	8631.7	8485.2	8529.2	6816.0
50°	11406.4	11508.9	12079.9	12559.5	11911.5	10813.4	10139.8	9561.4	9711.5	9777.4	7921.5
52.5°	9407.7	9579.8	10571.8	11666.3	11640.7	11098.9	10915.9	10743.8	11417.4	11534.5	9554.1
55°	7149.1	7262.6	8554.8	9993.4	10462.0	10864.6	11593.1	12244.7	13675.9	13650.3	11212.4
57.5°	5340.8	5447.0	6559.8	8155.8	8774.4	9850.6	11940.8	13961.5	15916.2	16015.1	12768.1
60°	3927.8	4008.3	4956.4	6266.9	7160.1	8298.5	11801.7	15652.7	18496.9	18383.5	14140.8
62.5°	2906.5	2950.4	3635.0	4487.9	5673.9	6761.1	10926.8	16809.4	20557.8	20327.2	14905.9
65°	2247.6	2262.2	2617.3	3071.2	4125.5	5256.6	9623.7	16985.1	21696.3	21451.0	14891.3
66°	2002.3	2013.3	2273.2	2624.6	3510.5	4601.4	9052.6	16703.2	21875.7	21615.8	14708.2
67.5°	1680.2	1672.9	1826.6	2057.2	2635.6	3550.8	8038.6	15879.6	21663.3	21531.6	14122.5
70°	1244.6	1248.3	1325.1	1380.0	1541.1	1965.7	5805.7	13774.8	19964.8	19957.5	12515.5
72.5°	922.5	933.4	992.0	1003.0	962.7	1065.2	3345.8	10956.1	15971.1	15974.8	9356.5
75°	691.9	710.2	728.5	735.8	699.2	673.5	1511.8	7372.4	10505.9	10429.0	5296.9
77.5°	527.1	534.4	549.1	538.1	530.8	464.9	629.6	3594.7	5187.0	4725.8	1716.8
80°	384.4	384.4	399.0	384.4	380.7	333.1	344.1	1153.1	1522.8	1266.6	369.7
82.5°	241.6	237.9	248.9	245.3	237.9	212.3	201.3	322.1	351.4	314.8	179.4
85°	135.4	131.8	128.1	124.5	113.5	95.2	109.8	120.8	161.1	164.7	128.1
87.5°	47.6	47.6	43.9	40.3	32.9	32.9	40.3	40.3	58.6	58.6	65.9
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°	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6
2.5°	2240.3	2200.0	2141.4	2064.6	2009.7	1954.8	1896.2	1863.2	1815.7	1804.7	1819.3
5°	2280.5	2207.3	2060.9	1899.8	1760.7	1636.3	1519.1	1449.6	1380.0	1354.4	1365.4
7.5°	2364.7	2240.3	1991.4	1731.5	1500.8	1314.1	1175.0	1094.5	1032.3	1006.7	1014.0
10°	2489.2	2298.8	1925.5	1541.1	1244.6	1046.9	929.8	878.5	841.9	827.3	831.0
12.5°	2639.3	2383.0	1841.3	1350.8	1025.0	852.9	798.0	787.0	779.7	772.4	776.0
15°	2807.7	2456.3	1742.4	1164.1	852.9	757.7	739.4	735.8	732.1	732.1	732.1
17.5°	2983.4	2522.1	1632.6	988.4	743.1	699.2	688.2	688.2	688.2	691.9	691.9
20°	3148.1	2573.4	1504.5	831.0	680.9	644.3	636.9	636.9	640.6	644.3	644.3
22.5°	3309.2	2595.4	1354.4	721.1	629.6	596.7	585.7	585.7	585.7	589.4	589.4
25°	3448.3	2595.4	1204.3	651.6	585.7	552.7	538.1	534.4	538.1	538.1	538.1
27.5°	3565.4	2584.4	1057.9	604.0	541.8	508.8	494.2	490.5	497.8	501.5	501.5
30°	3689.9	2569.7	940.8	560.1	505.2	472.2	457.6	457.6	468.6	483.2	483.2
32.5°	3810.7	2580.7	849.3	523.5	468.6	442.9	428.3	431.9	453.9	475.9	475.9
35°	3938.8	2602.7	794.3	497.8	442.9	417.3	406.3	417.3	439.3	461.2	461.2
37.5°	4066.9	2628.3	761.4	475.9	421.0	395.3	388.0	402.7	428.3	450.3	453.9
40°	4202.4	2650.3	724.8	453.9	406.3	377.0	373.4	388.0	421.0	442.9	446.6
42.5°	4370.7	2694.2	680.9	435.6	391.7	355.1	358.7	369.7	402.7	435.6	439.3
45°	4700.2	2833.3	636.9	417.3	373.4	344.1	336.8	344.1	380.7	417.3	424.6
47.5°	5318.8	3148.1	589.4	399.0	355.1	336.8	307.5	314.8	347.8	388.0	391.7
50°	6504.9	3818.0	563.7	380.7	340.4	311.1	278.2	278.2	303.8	340.4	340.4
52.5°	8353.5	5018.7	578.4	366.1	322.1	285.5	252.6	248.9	263.6	289.2	289.2
55°	10348.5	6336.5	633.3	351.4	300.2	270.9	234.3	216.0	227.0	241.6	241.6
57.5°	11929.8	6999.0	783.4	344.1	274.5	259.9	212.3	186.7	197.7	212.3	212.3
60°	12625.4	6611.0	951.8	351.4	256.2	241.6	190.4	164.7	183.0	197.7	201.3
62.5°	12061.6	5443.3	1021.3	333.1	230.6	216.0	186.7	153.7	175.7	186.7	190.4
65°	10842.7	4136.5	798.0	289.2	212.3	186.7	168.4	146.4	164.7	175.7	175.7
66°	10264.3	3605.7	680.9	267.2	205.0	175.7	161.1	146.4	161.1	168.4	172.0
67.5°	9367.4	2844.3	505.2	234.3	190.4	161.1	150.1	139.1	153.7	161.1	161.1
70°	7324.8	1694.9	303.8	183.0	164.7	142.8	135.4	128.1	139.1	142.8	142.8
72.5°	4586.7	805.3	194.0	135.4	139.1	135.4	113.5	120.8	124.5	128.1	128.1
75°	2222.0	318.5	131.8	98.8	113.5	128.1	91.5	106.2	109.8	117.1	113.5
77.5°	618.6	153.7	84.2	73.2	98.8	98.8	69.6	84.2	98.8	124.5	113.5
80°	179.4	98.8	54.9	54.9	69.6	69.6	47.6	58.6	65.9	73.2	76.9
82.5°	124.5	65.9	36.6	40.3	40.3	43.9	29.3	29.3	36.6	36.6	40.3
85°	98.8	29.3	22.0	25.6	18.3	22.0	14.6	14.6	18.3	14.6	14.6
87.5°	40.3	14.6	14.6	14.6	11.0	11.0	7.3	3.7	3.7	3.7	3.7
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)