

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: P1210439

Luminaire Tested: **ARCH3-120-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

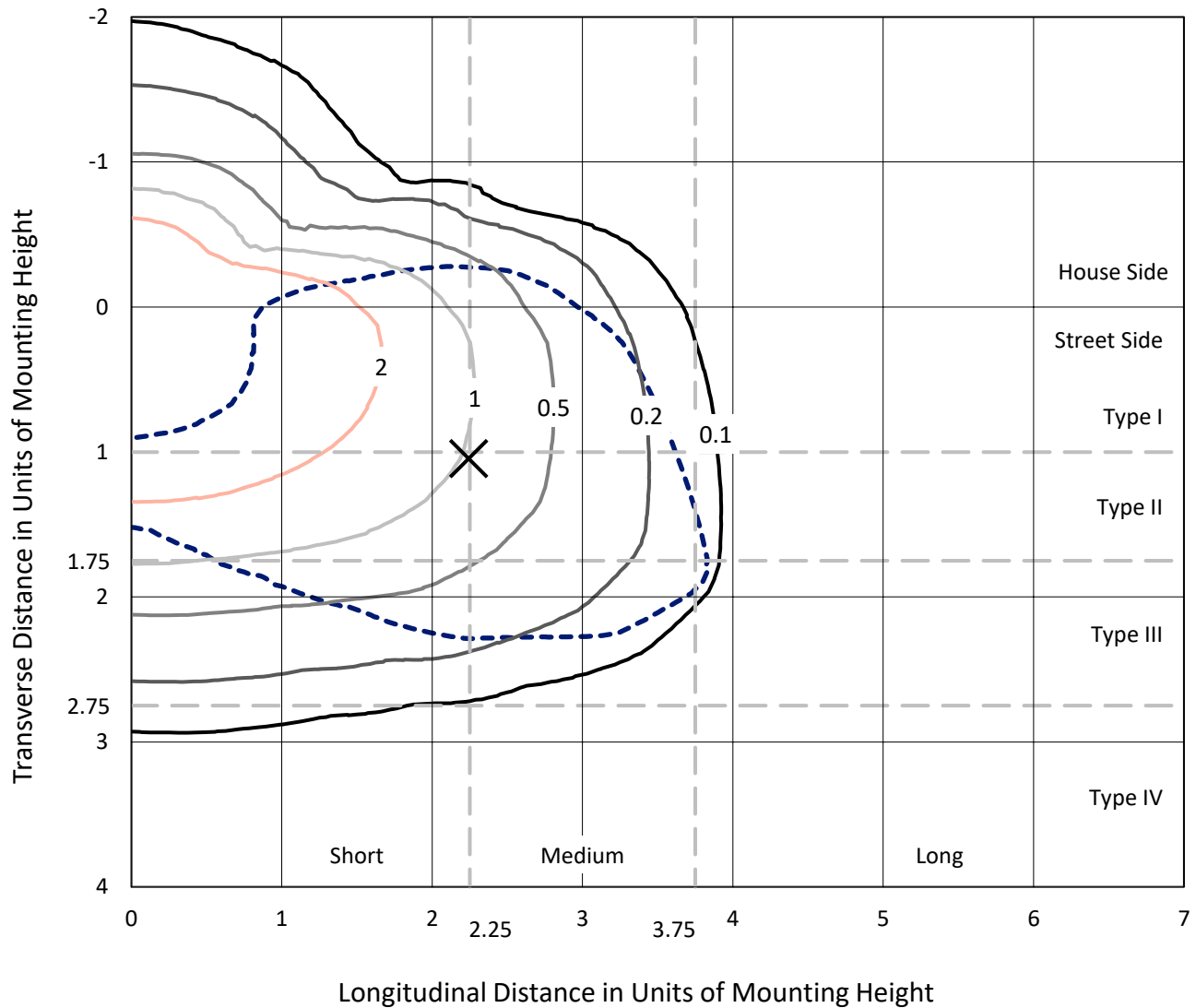


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Iso-Footcandle Lines of Horizontal Illumination

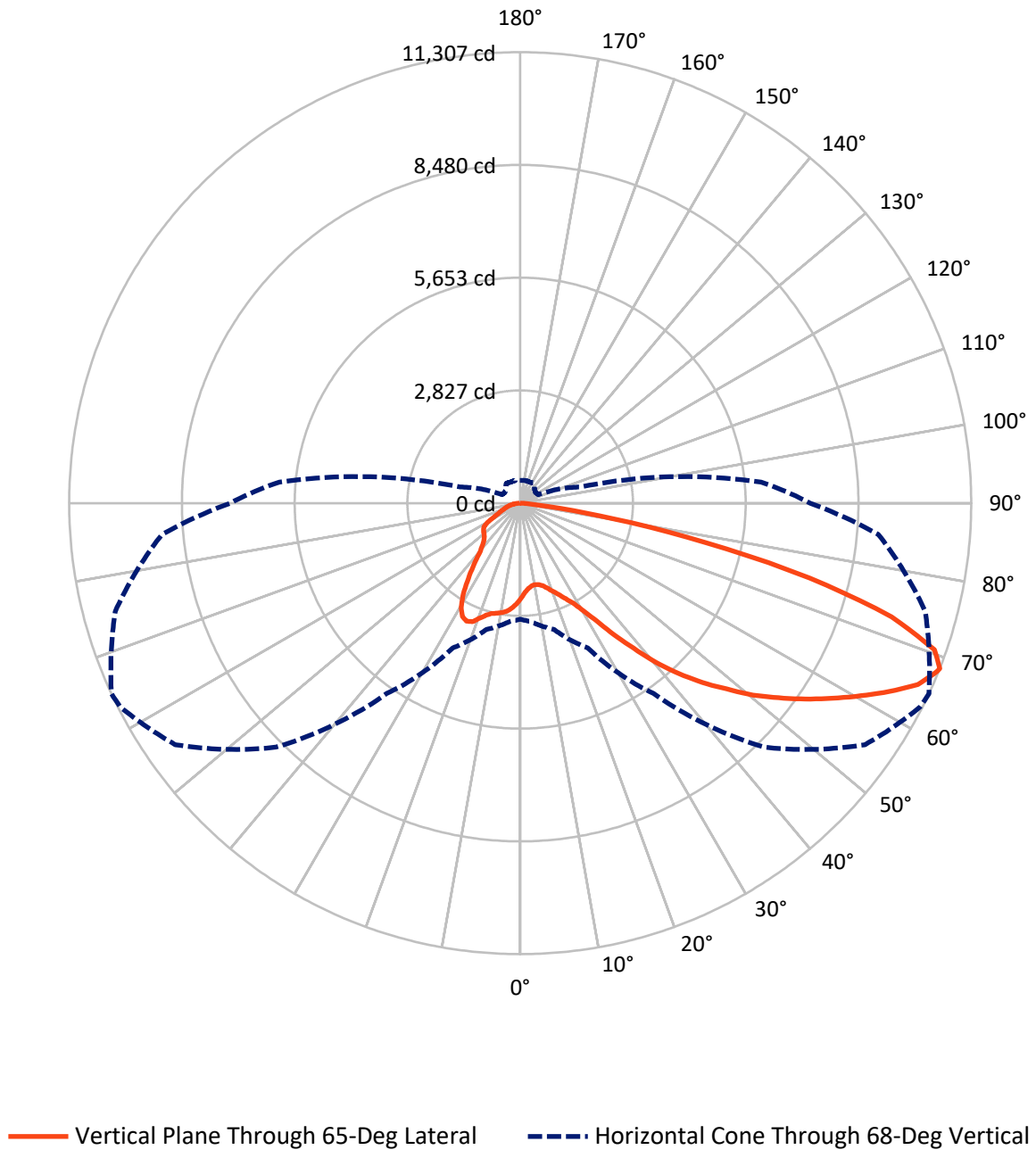
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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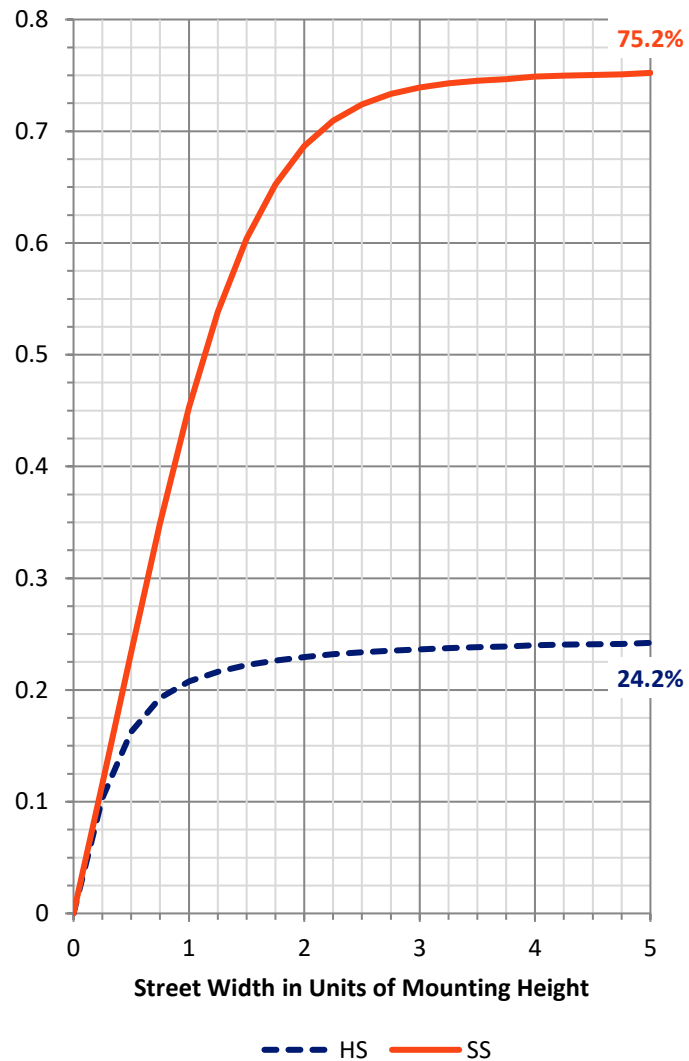
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4573.9	0.0	4573.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14082.1	0.0	14082.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	18656.0	0.0	18656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.2
10°-20°	741.8	4.0
20°-30°	1342.7	7.2
30°-40°	2112.2	11.3
40°-50°	3145.8	16.9
50°-60°	4126.7	22.1
60°-70°	4512.8	24.2
70°-80°	2233.1	12.0
80°-90°	213.0	1.1
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°	18656.0	100.0
0°-180°	18656.0	100.0

Coefficient of Utilization



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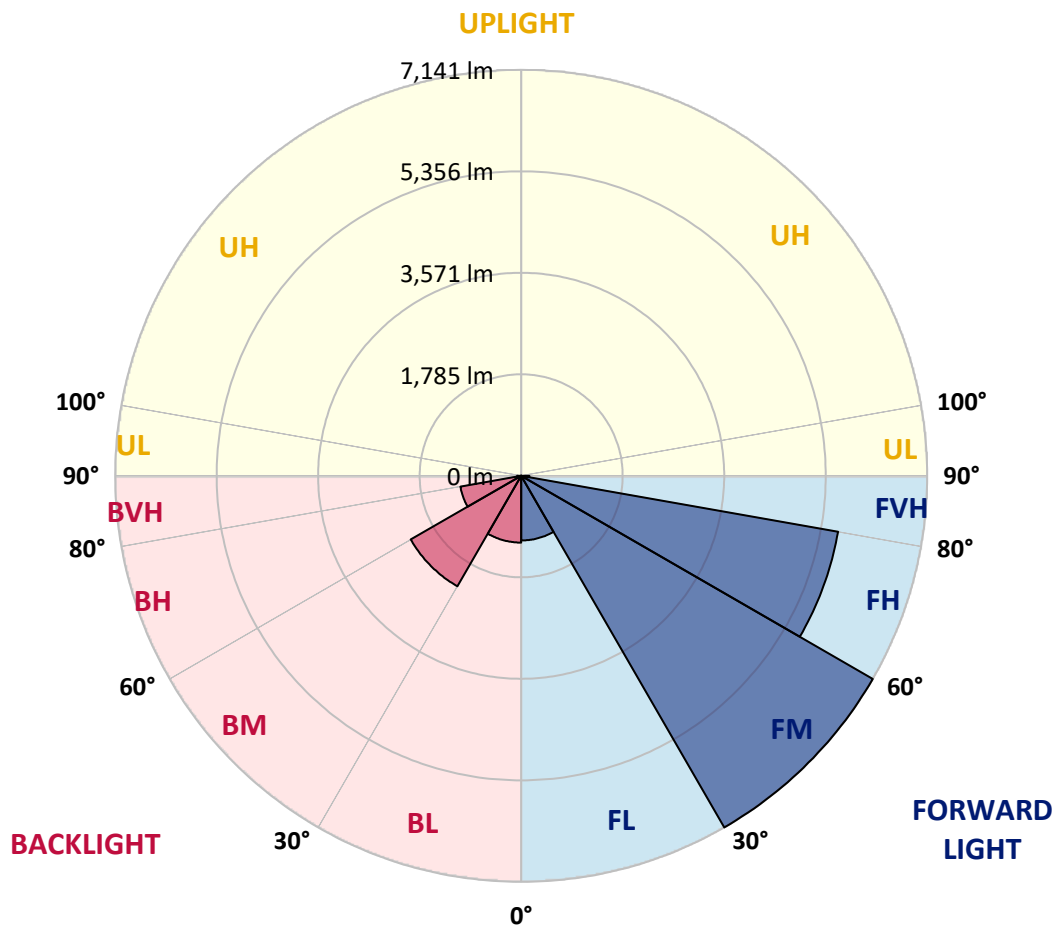
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.3	6.1			
FM	(30°-60°)	7141.3	38.3			
FH	(60°-80°)	5660.3	30.3			G3/7500
FVH	(80°-90°)	143.3	0.8			G2/225
BL	(0°-30°)	1175.1	6.3	B3/2500		
BM	(30°-60°)	2243.5	12.0	B2/2500		
BH	(60°-80°)	1085.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	69.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0
2.5°	2080.9	2076.1	2088.1	2100.1	2126.6	2157.9	2201.2	2237.3	2242.1	2309.4	2362.4
5°	1958.2	1951.0	1963.0	1977.5	1989.5	2028.0	2073.7	2126.6	2148.3	2246.9	2360.0
7.5°	1970.2	1967.8	1972.6	1967.8	1967.8	1984.7	2015.9	2068.9	2092.9	2210.8	2372.0
10°	2040.0	2044.8	2047.2	2032.8	2018.3	2011.1	2020.8	2056.8	2073.7	2213.2	2424.9
12.5°	2155.5	2162.7	2165.1	2138.6	2119.4	2088.1	2071.3	2085.7	2097.7	2237.3	2499.5
15°	2311.8	2316.7	2299.8	2283.0	2234.9	2196.4	2155.5	2143.4	2148.3	2287.8	2583.7
17.5°	2494.7	2487.5	2487.5	2446.6	2384.0	2323.9	2256.5	2246.9	2246.9	2369.6	2704.0
20°	2694.3	2701.6	2679.9	2624.6	2562.0	2468.2	2400.8	2357.5	2362.4	2463.4	2850.7
22.5°	2983.0	2995.0	2937.3	2857.9	2761.7	2653.4	2557.2	2487.5	2489.9	2586.1	3002.3
25°	3293.3	3298.2	3262.1	3156.2	3026.3	2872.4	2744.9	2655.8	2653.4	2723.2	3197.1
27.5°	3610.9	3632.5	3560.4	3459.3	3339.1	3146.6	2978.2	2857.9	2838.7	2932.5	3440.1
30°	3938.1	3964.5	3894.8	3796.1	3647.0	3483.4	3283.7	3144.2	3132.2	3257.3	3764.9
32.5°	4267.6	4274.9	4219.5	4137.7	4003.0	3849.1	3687.9	3533.9	3521.9	3726.4	4185.8
35°	4537.1	4558.7	4520.2	4501.0	4402.4	4260.4	4104.1	4015.0	4046.3	4308.5	4731.9
37.5°	4861.8	4883.5	4840.2	4835.4	4804.1	4681.4	4573.2	4580.4	4611.7	4967.7	5306.9
40°	5330.9	5355.0	5244.3	5196.2	5196.2	5075.9	5039.9	5210.7	5251.6	5617.2	5905.9
42.5°	5727.9	5766.4	5701.4	5670.1	5576.3	5492.1	5535.4	5776.0	5845.8	6237.9	6427.9
45°	5920.3	5949.2	6026.2	6117.6	6026.2	5879.4	6043.0	6314.9	6413.5	6810.4	6950.0
47.5°	6023.8	6050.2	6139.2	6384.6	6447.2	6324.5	6555.4	6894.6	6962.0	7378.2	7447.9
50°	6038.2	6122.4	6237.9	6483.3	6769.5	6786.4	7070.2	7484.0	7563.4	7936.3	7885.8
52.5°	5920.3	5954.0	6192.2	6605.9	6923.5	7212.2	7630.8	8049.3	8107.1	8460.7	8273.1
55°	5727.9	5776.0	6014.2	6577.1	7072.6	7616.3	8200.9	8605.0	8670.0	8970.7	8631.5
57.5°	5554.7	5578.7	5833.7	6492.9	7221.8	8020.5	8708.5	9184.8	9228.1	9418.2	8896.1
60°	5362.2	5388.7	5643.7	6312.5	7332.5	8326.0	9237.7	9769.4	9807.9	9889.7	9204.1
62.5°	4864.2	4934.0	5254.0	6014.2	7303.6	8674.8	9803.1	10346.7	10394.9	10305.9	9447.0
65°	3950.1	4048.7	4440.9	5338.2	7034.2	8900.9	10265.0	10878.4	10960.2	10618.6	9512.0
67.5°	3067.2	3137.0	3452.1	4236.4	6088.7	8787.9	10563.3	11244.1	11268.1	10568.1	9151.1
68°	2908.4	2978.2	3278.9	4005.4	5826.5	8653.2	10556.0	11253.7	11306.6	10512.7	9011.6
70°	2225.2	2304.6	2590.9	3173.1	4695.9	7796.7	10115.8	11022.7	11015.5	9844.0	8145.6
72.5°	1390.5	1436.2	1633.4	2001.5	3105.7	5932.4	8585.8	9721.3	9740.5	8025.3	6247.5
75°	882.9	882.9	873.3	969.5	1592.5	3380.0	6382.2	7484.0	7498.4	5619.6	3938.1
77.5°	767.4	745.8	642.3	543.7	635.1	1313.5	3776.9	4833.0	4753.6	3026.3	1869.2
80°	647.1	611.0	526.8	437.8	409.0	411.4	1450.6	2453.8	2347.9	1089.8	620.7
82.5°	466.7	435.4	396.9	344.0	315.1	245.4	303.1	709.7	692.8	315.1	202.1
85°	252.6	228.5	223.7	226.1	190.0	151.6	127.5	156.4	156.4	137.1	115.5
87.5°	89.0	65.0	77.0	86.6	74.6	62.5	50.5	60.1	62.5	60.1	55.3
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°	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0	2384.0
2.5°	2393.6	2417.7	2475.4	2525.9	2562.0	2593.3	2610.1	2617.4	2634.2	2636.6	2631.8
5°	2412.9	2475.4	2562.0	2636.6	2677.5	2694.3	2699.2	2701.6	2694.3	2699.2	2694.3
7.5°	2463.4	2542.8	2665.5	2730.4	2737.6	2711.2	2713.6	2704.0	2713.6	2723.2	2723.2
10°	2540.4	2641.4	2756.9	2780.9	2749.7	2735.2	2764.1	2821.8	2841.1	2867.5	2867.5
12.5°	2641.4	2761.7	2843.5	2821.8	2793.0	2841.1	2925.3	2983.0	3002.3	3011.9	3004.7
15°	2756.9	2886.8	2927.7	2855.5	2908.4	3011.9	3040.8	3007.1	2959.0	2937.3	2949.3
17.5°	2903.6	3011.9	2987.8	2939.7	3060.0	3074.4	2980.6	2872.4	2795.4	2766.5	2785.8
20°	3057.6	3151.4	3040.8	3062.4	3137.0	2983.0	2805.0	2665.5	2598.1	2586.1	2605.3
22.5°	3221.2	3281.3	3093.7	3204.3	3093.7	2780.9	2566.8	2494.7	2477.8	2497.1	2513.9
25°	3406.4	3399.2	3185.1	3247.6	2932.5	2533.2	2405.7	2400.8	2400.8	2412.9	2436.9
27.5°	3615.7	3502.6	3276.5	3189.9	2653.4	2328.7	2304.6	2307.0	2299.8	2302.2	2314.2
30°	3858.7	3642.2	3377.5	2999.9	2340.7	2174.7	2165.1	2157.9	2141.0	2136.2	2141.0
32.5°	4164.2	3788.9	3481.0	2687.1	2066.5	2015.9	2011.1	1972.6	1931.7	1926.9	1943.8
35°	4551.5	4055.9	3533.9	2295.0	1840.3	1837.9	1821.1	1760.9	1708.0	1708.0	1696.0
37.5°	4994.2	4400.0	3555.6	1912.5	1652.7	1664.7	1616.6	1539.6	1498.7	1474.7	1481.9
40°	5446.4	4792.1	3553.2	1578.1	1489.1	1491.5	1455.4	1361.6	1260.6	1200.4	1214.9
42.5°	5881.8	5148.1	3490.6	1400.1	1356.8	1349.6	1320.7	1193.2	1109.0	1060.9	1063.3
45°	6230.7	5516.2	3394.4	1294.2	1236.5	1248.5	1183.6	1106.6	1029.6	986.3	983.9
47.5°	6579.5	5795.2	3240.4	1229.3	1147.5	1125.8	1099.4	1046.5	988.7	940.6	943.0
50°	6897.0	6033.4	3096.1	1186.0	1065.7	1010.4	1015.2	983.9	933.4	890.1	887.7
52.5°	7120.8	6189.8	3016.7	1161.9	967.1	906.9	923.8	906.9	858.8	827.5	825.1
55°	7344.5	6310.0	3043.2	1130.7	858.8	810.7	839.6	834.8	808.3	798.7	801.1
57.5°	7524.9	6401.5	3137.0	1072.9	755.4	726.5	774.6	760.2	740.9	743.3	743.3
60°	7700.5	6519.3	3247.6	940.6	666.4	668.8	714.5	688.0	676.0	697.6	700.0
62.5°	7883.4	6646.8	3156.2	748.2	589.4	606.2	659.2	637.5	642.3	673.6	683.2
65°	7861.7	6634.8	2571.7	613.4	522.0	555.7	635.1	627.9	630.3	642.3	647.1
67.5°	7419.1	6211.4	1768.2	522.0	473.9	514.8	615.8	587.0	589.4	582.2	584.6
68°	7269.9	6062.3	1558.9	507.6	464.3	505.2	606.2	579.8	582.2	575.0	572.5
70°	6456.8	5191.4	986.3	447.5	430.6	478.7	558.1	548.5	546.1	541.3	541.3
72.5°	4922.0	3832.2	519.6	387.3	392.1	437.8	498.0	517.2	505.2	507.6	522.0
75°	3259.7	2304.6	360.8	332.0	344.0	375.3	442.6	481.1	469.1	476.3	469.1
77.5°	1724.9	1241.3	288.7	281.5	281.5	303.1	365.7	425.8	425.8	421.0	413.8
80°	565.3	437.8	230.9	221.3	226.1	238.2	293.5	348.8	356.0	346.4	341.6
82.5°	190.0	202.1	173.2	161.2	166.0	175.6	221.3	267.0	269.4	250.2	245.4
85°	117.9	134.7	108.3	105.8	105.8	108.3	134.7	146.7	134.7	120.3	125.1
87.5°	55.3	67.4	50.5	43.3	36.1	31.3	24.1	9.6	9.6	4.8	4.8
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)