

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: P1210875

Luminaire Tested: **ARCH4-100-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210875
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: ARCH4-100-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16394 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 103.1
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

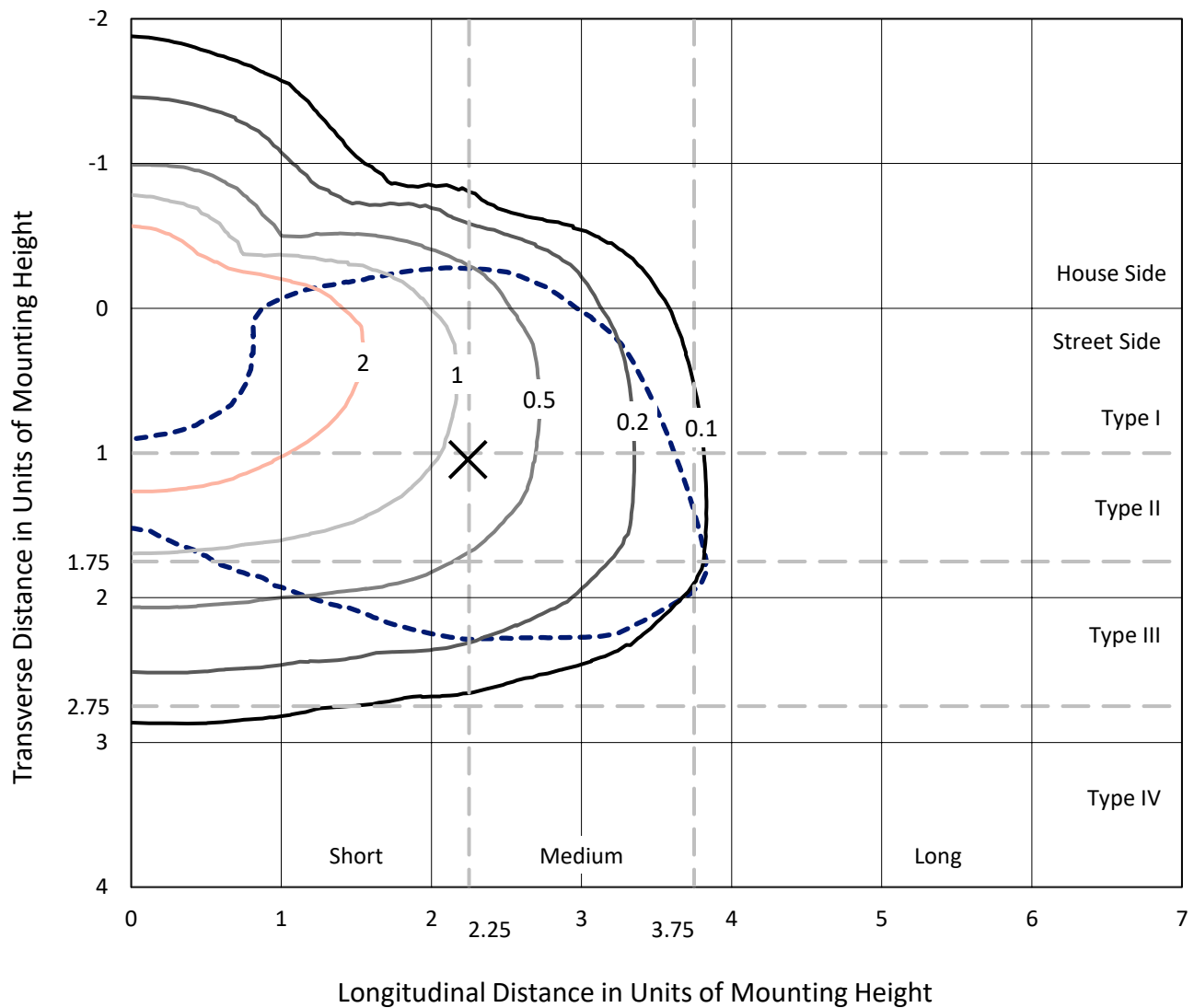


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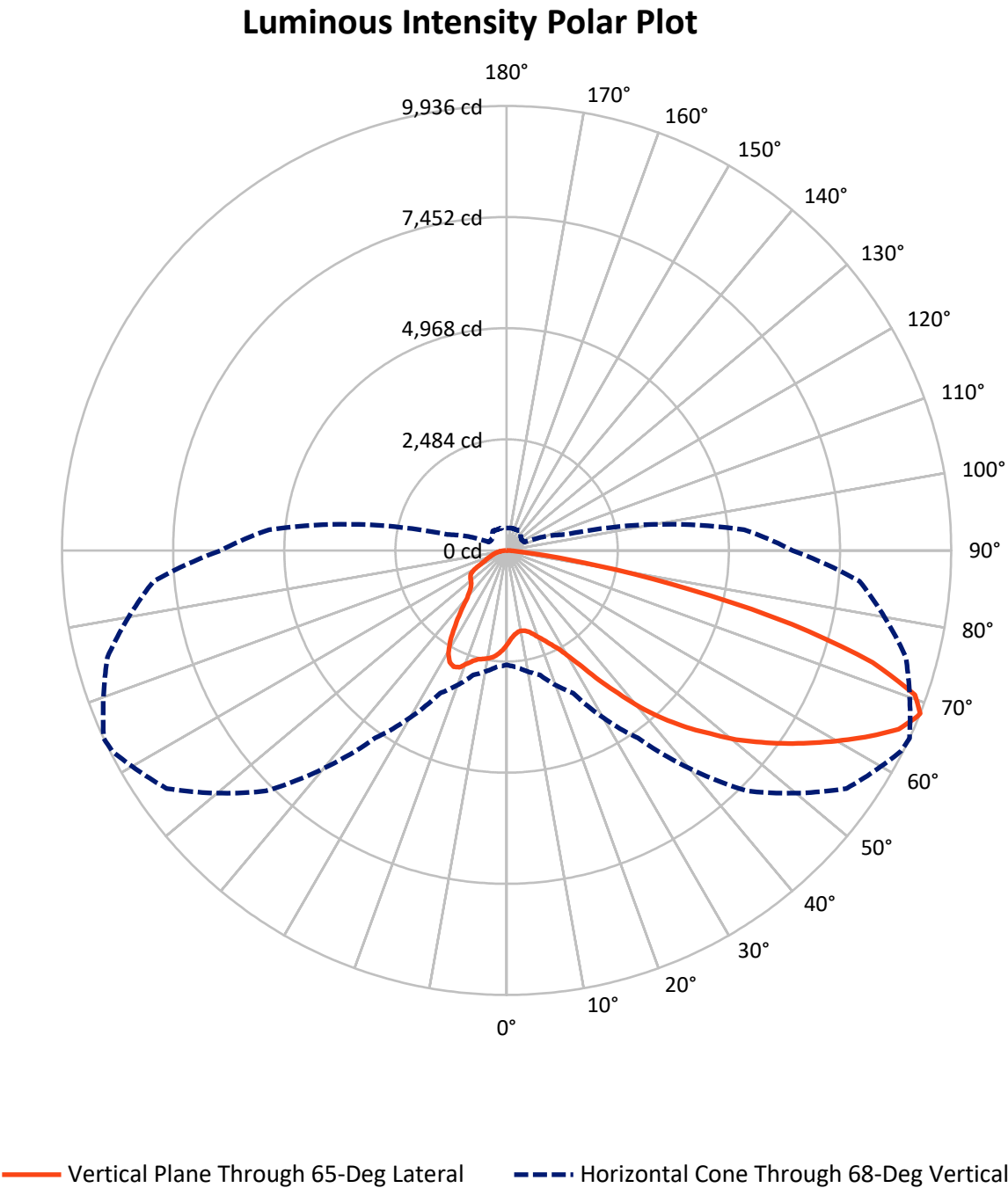
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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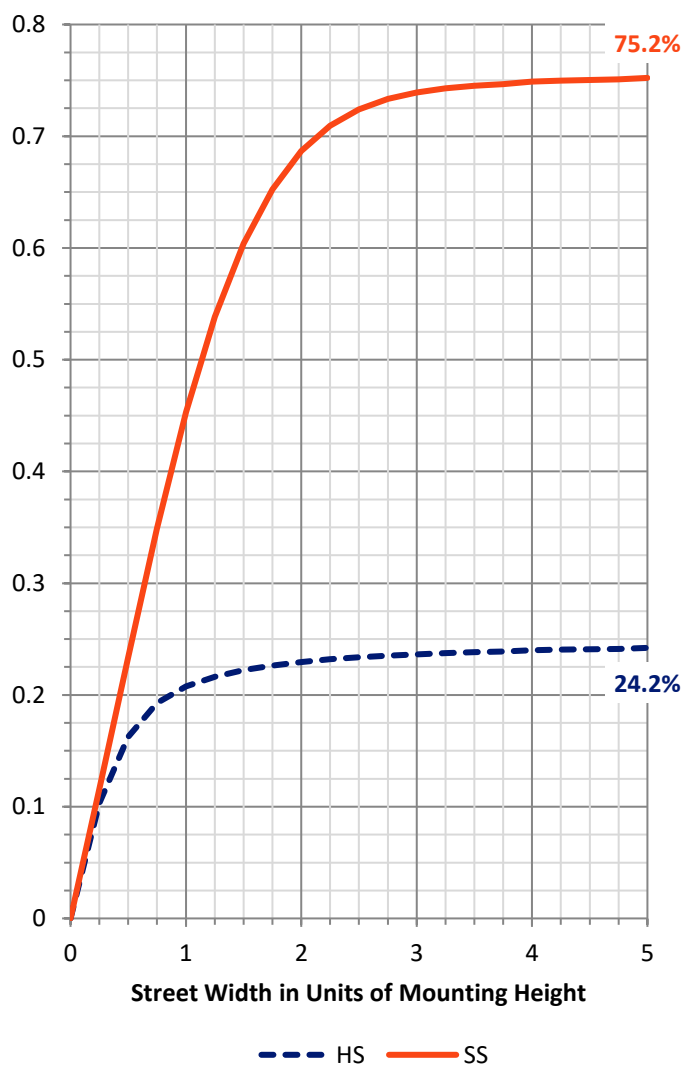
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.3	0.0	4019.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12374.7	0.0	12374.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	16394.0	0.0	16394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	1.2
10°-20°	651.9	4.0
20°-30°	1179.9	7.2
30°-40°	1856.1	11.3
40°-50°	2764.4	16.9
50°-60°	3626.4	22.1
60°-70°	3965.7	24.2
70°-80°	1962.3	12.0
80°-90°	187.2	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°	16394.0	100.0
0°-180°	16394.0	100.0

Coefficient of Utilization



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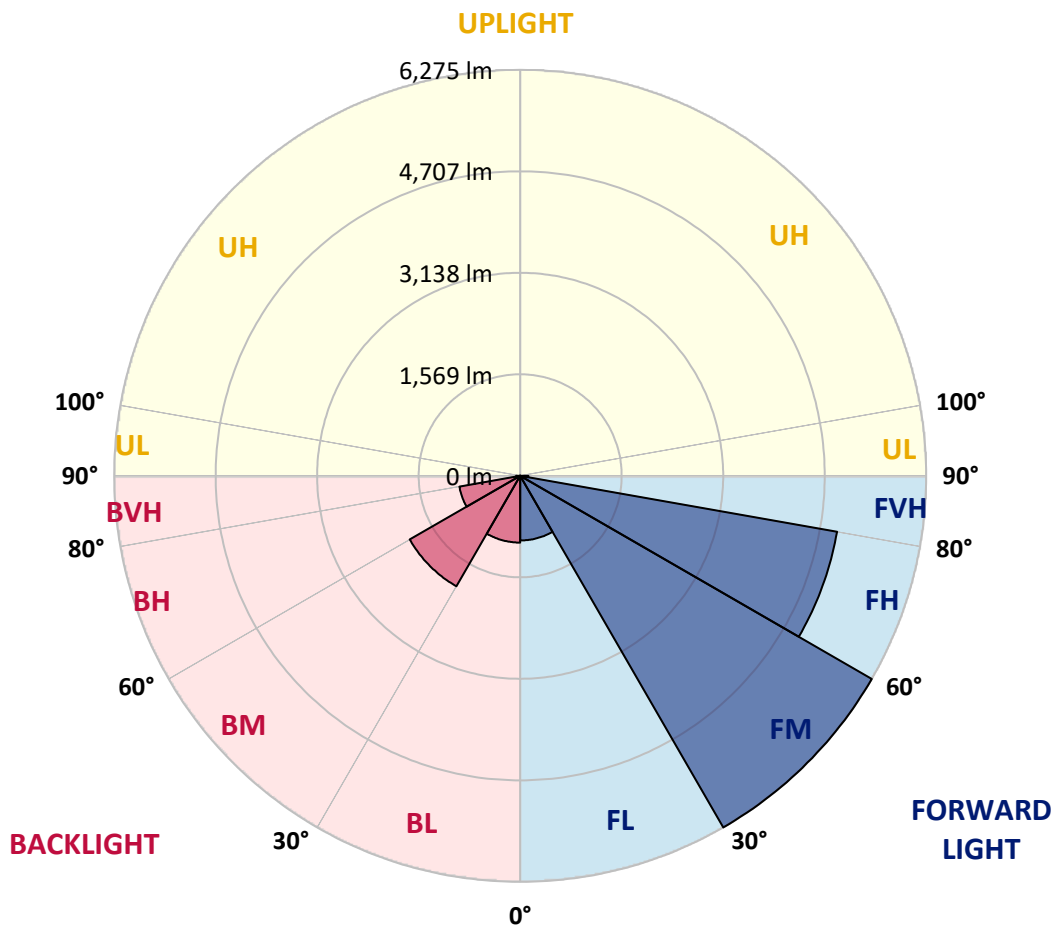
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	999.4	6.1			
FM	(30°-60°)	6275.4	38.3			
FH	(60°-80°)	4974.0	30.3			G2/5000
FVH	(80°-90°)	125.9	0.8			G2/225
BL	(0°-30°)	1032.6	6.3	B3/2500		
BM	(30°-60°)	1971.4	12.0	B2/2500		
BH	(60°-80°)	954.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	61.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0
2.5°	1828.6	1824.4	1834.9	1845.5	1868.8	1896.2	1934.3	1966.0	1970.2	2029.4	2075.9
5°	1720.8	1714.4	1725.0	1737.7	1748.3	1782.1	1822.3	1868.8	1887.8	1974.5	2073.8
7.5°	1731.3	1729.2	1733.5	1729.2	1729.2	1744.0	1771.5	1818.0	1839.2	1942.7	2084.4
10°	1792.7	1796.9	1799.0	1786.3	1773.6	1767.3	1775.7	1807.5	1822.3	1944.9	2130.9
12.5°	1894.1	1900.5	1902.6	1879.3	1862.4	1834.9	1820.1	1832.8	1843.4	1966.0	2196.4
15°	2031.5	2035.8	2021.0	2006.2	1963.9	1930.1	1894.1	1883.6	1887.8	2010.4	2270.4
17.5°	2192.2	2185.9	2185.9	2149.9	2095.0	2042.1	1982.9	1974.5	1974.5	2082.3	2376.1
20°	2367.7	2374.0	2355.0	2306.4	2251.4	2168.9	2109.8	2071.7	2075.9	2164.7	2505.1
22.5°	2621.3	2631.9	2581.2	2511.4	2426.8	2331.7	2247.2	2185.9	2188.0	2272.5	2638.2
25°	2894.0	2898.3	2866.6	2773.5	2659.4	2524.1	2412.1	2333.8	2331.7	2393.0	2809.5
27.5°	3173.1	3192.1	3128.7	3039.9	2934.2	2765.1	2617.1	2511.4	2494.5	2576.9	3023.0
30°	3460.6	3483.8	3422.5	3335.9	3204.8	3061.0	2885.6	2763.0	2752.4	2862.3	3308.4
32.5°	3750.2	3756.5	3707.9	3636.0	3517.7	3382.4	3240.7	3105.4	3094.9	3274.6	3678.3
35°	3987.0	4006.0	3972.2	3955.3	3868.6	3743.9	3606.4	3528.2	3555.7	3786.1	4158.2
37.5°	4272.4	4291.4	4253.3	4249.1	4221.6	4113.8	4018.7	4025.0	4052.5	4365.4	4663.4
40°	4684.6	4705.7	4608.5	4566.2	4566.2	4460.5	4428.8	4578.9	4614.8	4936.1	5189.8
42.5°	5033.4	5067.2	5010.1	4982.7	4900.2	4826.2	4864.3	5075.7	5137.0	5481.5	5648.6
45°	5202.5	5227.9	5295.5	5375.9	5295.5	5166.6	5310.3	5549.2	5635.9	5984.7	6107.3
47.5°	5293.4	5316.7	5394.9	5610.5	5665.5	5557.7	5760.6	6058.7	6117.9	6483.6	6544.9
50°	5306.1	5380.1	5481.5	5697.2	5948.7	5963.5	6213.0	6576.6	6646.4	6974.0	6929.6
52.5°	5202.5	5232.1	5441.4	5805.0	6084.0	6337.7	6705.5	7073.4	7124.1	7434.9	7270.0
55°	5033.4	5075.7	5284.9	5779.6	6215.1	6692.9	7206.6	7561.7	7618.8	7883.0	7585.0
57.5°	4881.2	4902.3	5126.4	5705.6	6346.2	7048.0	7652.6	8071.2	8109.2	8276.2	7817.5
60°	4712.1	4735.3	4959.4	5547.1	6443.4	7316.5	8117.7	8584.9	8618.7	8690.6	8088.1
62.5°	4274.5	4335.8	4616.9	5284.9	6418.0	7623.0	8614.5	9092.2	9134.5	9056.3	8301.6
65°	3471.2	3557.8	3902.4	4690.9	6181.3	7821.7	9020.4	9559.4	9631.3	9331.1	8358.7
67.5°	2695.3	2756.6	3033.6	3722.7	5350.5	7722.4	9282.5	9880.7	9901.9	9286.7	8041.6
68°	2555.8	2617.1	2881.4	3519.8	5120.1	7604.0	9276.1	9889.2	9935.7	9238.1	7919.0
70°	1955.4	2025.2	2276.8	2788.3	4126.5	6851.4	8889.3	9686.3	9679.9	8650.4	7157.9
72.5°	1221.9	1262.0	1435.4	1758.8	2729.1	5213.1	7544.8	8542.6	8559.5	7052.2	5490.0
75°	775.8	775.8	767.4	851.9	1399.5	2970.1	5608.4	6576.6	6589.3	4938.3	3460.6
77.5°	674.4	655.3	564.4	477.8	558.1	1154.2	3318.9	4247.0	4177.2	2659.4	1642.6
80°	568.7	537.0	463.0	384.7	359.4	361.5	1274.7	2156.3	2063.2	957.6	545.4
82.5°	410.1	382.6	348.8	302.3	276.9	215.6	266.4	623.6	608.8	276.9	177.6
85°	222.0	200.8	196.6	198.7	167.0	133.2	112.0	137.4	137.4	120.5	101.5
87.5°	78.2	57.1	67.6	76.1	65.5	55.0	44.4	52.8	55.0	52.8	48.6
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°	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0
2.5°	2103.4	2124.5	2175.3	2219.7	2251.4	2278.9	2293.7	2300.0	2314.8	2316.9	2312.7
5°	2120.3	2175.3	2251.4	2316.9	2352.9	2367.7	2371.9	2374.0	2367.7	2371.9	2367.7
7.5°	2164.7	2234.5	2342.3	2399.4	2405.7	2382.5	2384.6	2376.1	2384.6	2393.0	2393.0
10°	2232.4	2321.1	2422.6	2443.8	2416.3	2403.6	2429.0	2479.7	2496.6	2519.9	2519.9
12.5°	2321.1	2426.8	2498.7	2479.7	2454.3	2496.6	2570.6	2621.3	2638.2	2646.7	2640.4
15°	2422.6	2536.8	2572.7	2509.3	2555.8	2646.7	2672.1	2642.5	2600.2	2581.2	2591.7
17.5°	2551.6	2646.7	2625.6	2583.3	2689.0	2701.7	2619.2	2524.1	2456.4	2431.1	2448.0
20°	2686.9	2769.3	2672.1	2691.1	2756.6	2621.3	2464.9	2342.3	2283.1	2272.5	2289.4
22.5°	2830.6	2883.5	2718.6	2815.8	2718.6	2443.8	2255.6	2192.2	2177.4	2194.3	2209.1
25°	2993.4	2987.1	2798.9	2853.9	2576.9	2226.0	2114.0	2109.8	2109.8	2120.3	2141.5
27.5°	3177.3	3078.0	2879.2	2803.1	2331.7	2046.3	2025.2	2027.3	2021.0	2023.1	2033.6
30°	3390.8	3200.6	2968.0	2636.1	2056.9	1911.0	1902.6	1896.2	1881.4	1877.2	1881.4
32.5°	3659.3	3329.5	3058.9	2361.3	1815.9	1771.5	1767.3	1733.5	1697.5	1693.3	1708.1
35°	3999.6	3564.2	3105.4	2016.7	1617.2	1615.1	1600.3	1547.4	1500.9	1500.9	1490.4
37.5°	4388.6	3866.5	3124.5	1680.6	1452.3	1462.9	1420.6	1352.9	1317.0	1295.9	1302.2
40°	4786.0	4211.0	3122.3	1386.8	1308.6	1310.7	1279.0	1196.5	1107.7	1054.9	1067.6
42.5°	5168.7	4523.9	3067.4	1230.3	1192.3	1185.9	1160.6	1048.5	974.5	932.3	934.4
45°	5475.2	4847.4	2982.8	1137.3	1086.6	1097.2	1040.1	972.4	904.8	866.7	864.6
47.5°	5781.7	5092.6	2847.5	1080.2	1008.4	989.3	966.1	919.6	868.8	826.6	828.7
50°	6060.8	5301.9	2720.7	1042.2	936.5	887.9	892.1	864.6	820.2	782.2	780.1
52.5°	6257.4	5439.3	2650.9	1021.1	849.8	797.0	811.8	797.0	754.7	727.2	725.1
55°	6454.0	5545.0	2674.2	993.6	754.7	712.4	737.8	733.6	710.3	701.8	704.0
57.5°	6612.5	5625.3	2756.6	942.8	663.8	638.4	680.7	668.0	651.1	653.2	653.2
60°	6766.8	5728.9	2853.9	826.6	585.6	587.7	627.9	604.6	594.0	613.1	615.2
62.5°	6927.5	5840.9	2773.5	657.4	517.9	532.7	579.2	560.2	564.4	591.9	600.4
65°	6908.5	5830.4	2259.8	539.1	458.7	488.3	558.1	551.7	553.9	564.4	568.7
67.5°	6519.5	5458.3	1553.8	458.7	416.5	452.4	541.2	515.8	517.9	511.6	513.7
68°	6388.4	5327.2	1369.9	446.0	408.0	443.9	532.7	509.5	511.6	505.2	503.1
70°	5673.9	4562.0	866.7	393.2	378.4	420.7	490.4	482.0	479.9	475.6	475.6
72.5°	4325.2	3367.6	456.6	340.4	344.6	384.7	437.6	454.5	443.9	446.0	458.7
75°	2864.4	2025.2	317.1	291.7	302.3	329.8	389.0	422.8	412.2	418.6	412.2
77.5°	1515.7	1090.8	253.7	247.3	247.3	266.4	321.3	374.2	374.2	369.9	363.6
80°	496.8	384.7	202.9	194.5	198.7	209.3	257.9	306.5	312.9	304.4	300.2
82.5°	167.0	177.6	152.2	141.6	145.9	154.3	194.5	234.7	236.8	219.9	215.6
85°	103.6	118.4	95.1	93.0	93.0	95.1	118.4	129.0	118.4	105.7	109.9
87.5°	48.6	59.2	44.4	38.1	31.7	27.5	21.1	8.5	8.5	4.2	4.2
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)