

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: P1211645

Luminaire Tested: **ARCH4-70-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12445 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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

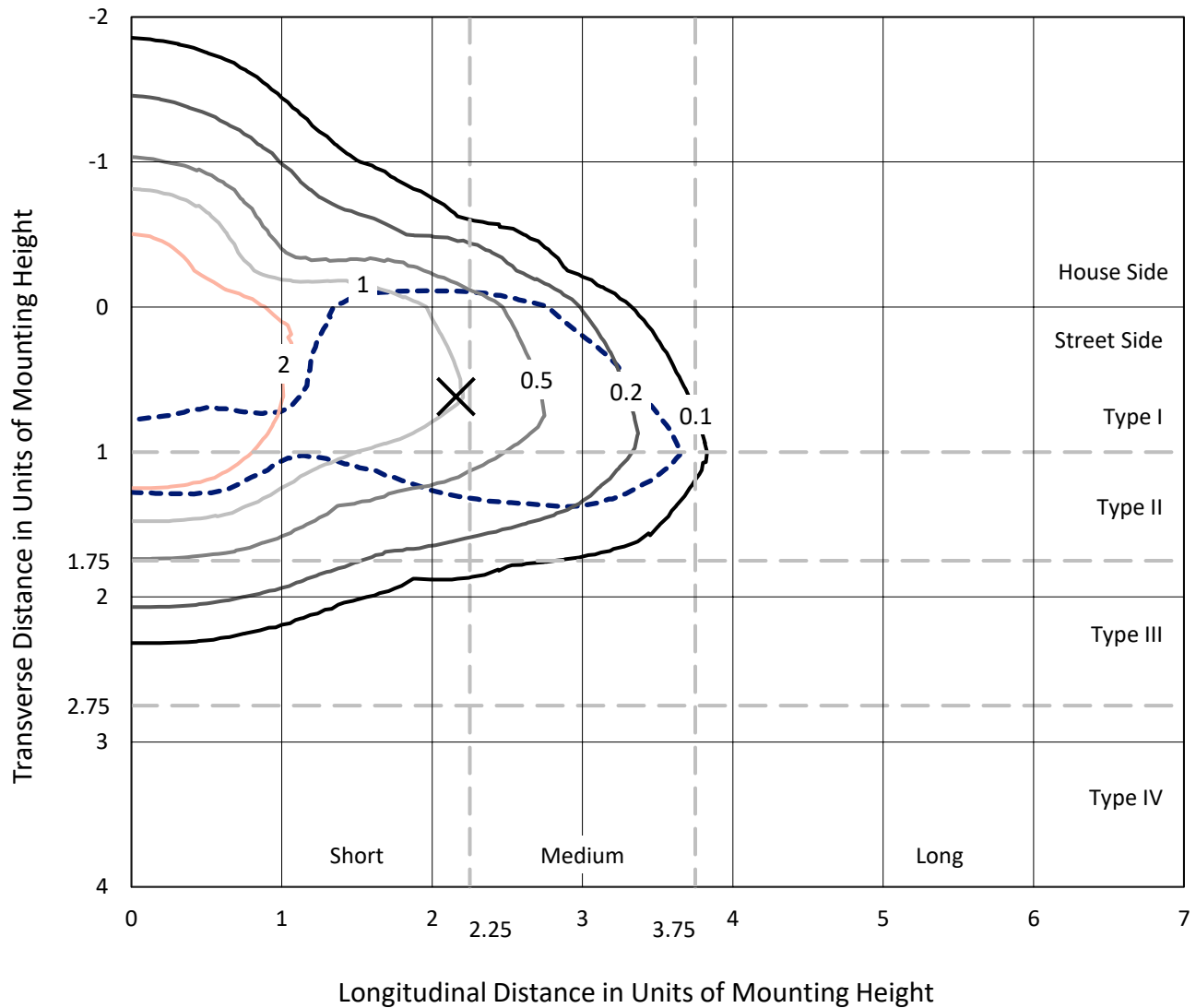


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Iso-Footcandle Lines of Horizontal Illumination

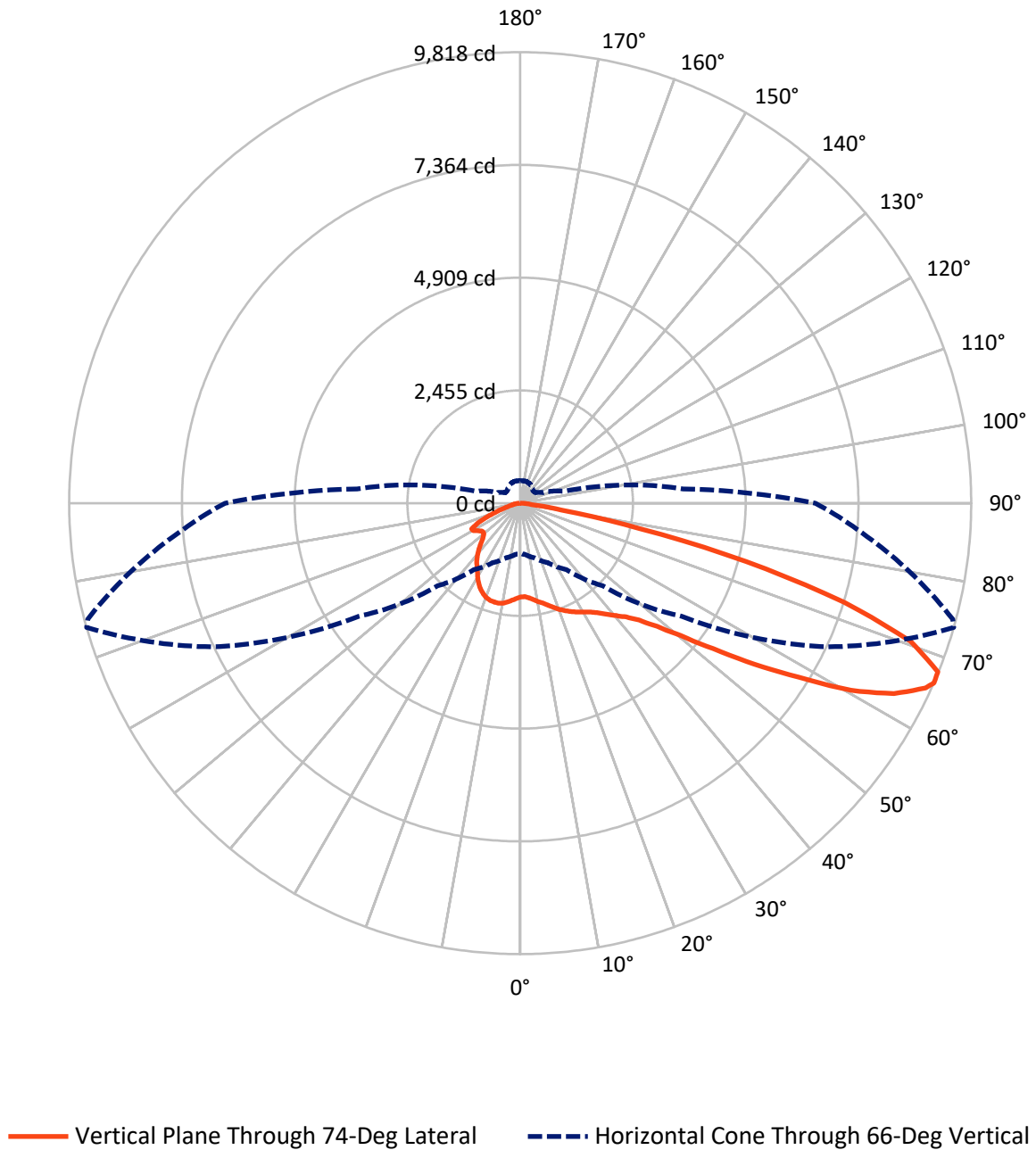
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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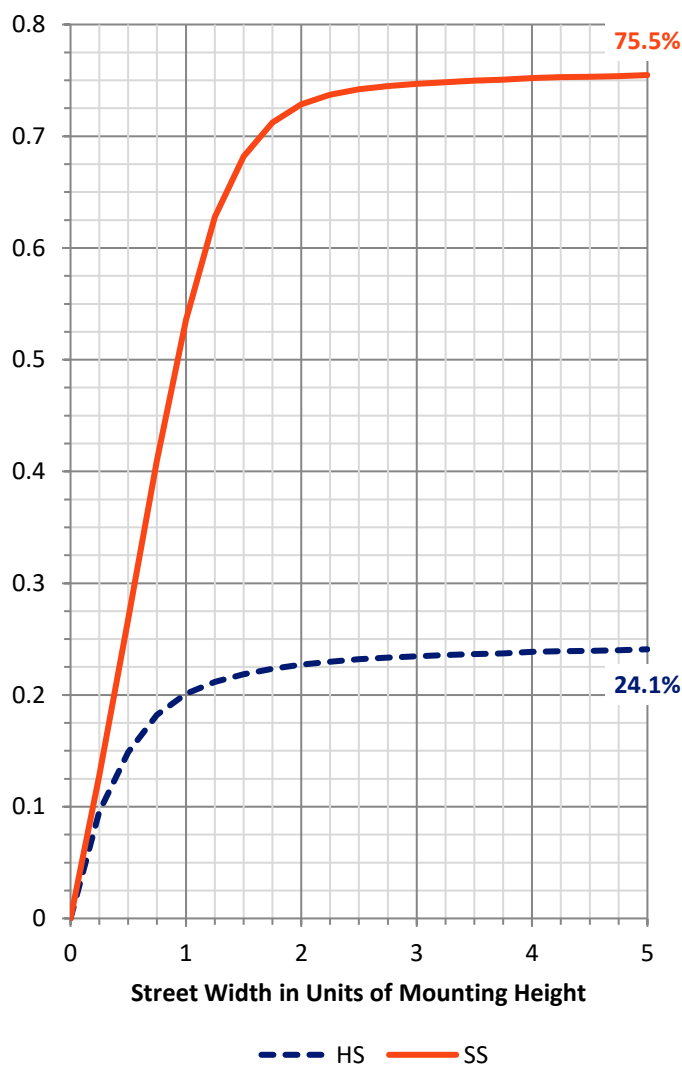
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3030.7	0.0	3030.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9414.3	0.0	9414.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	12445.0	0.0	12445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.6
10°-20°	598.5	4.8
20°-30°	1123.0	9.0
30°-40°	1727.5	13.9
40°-50°	2323.6	18.7
50°-60°	2748.0	22.1
60°-70°	2542.0	20.4
70°-80°	1069.4	8.6
80°-90°	118.3	1.0
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°	12445.0	100.0
0°-180°	12445.0	100.0

Coefficient of Utilization



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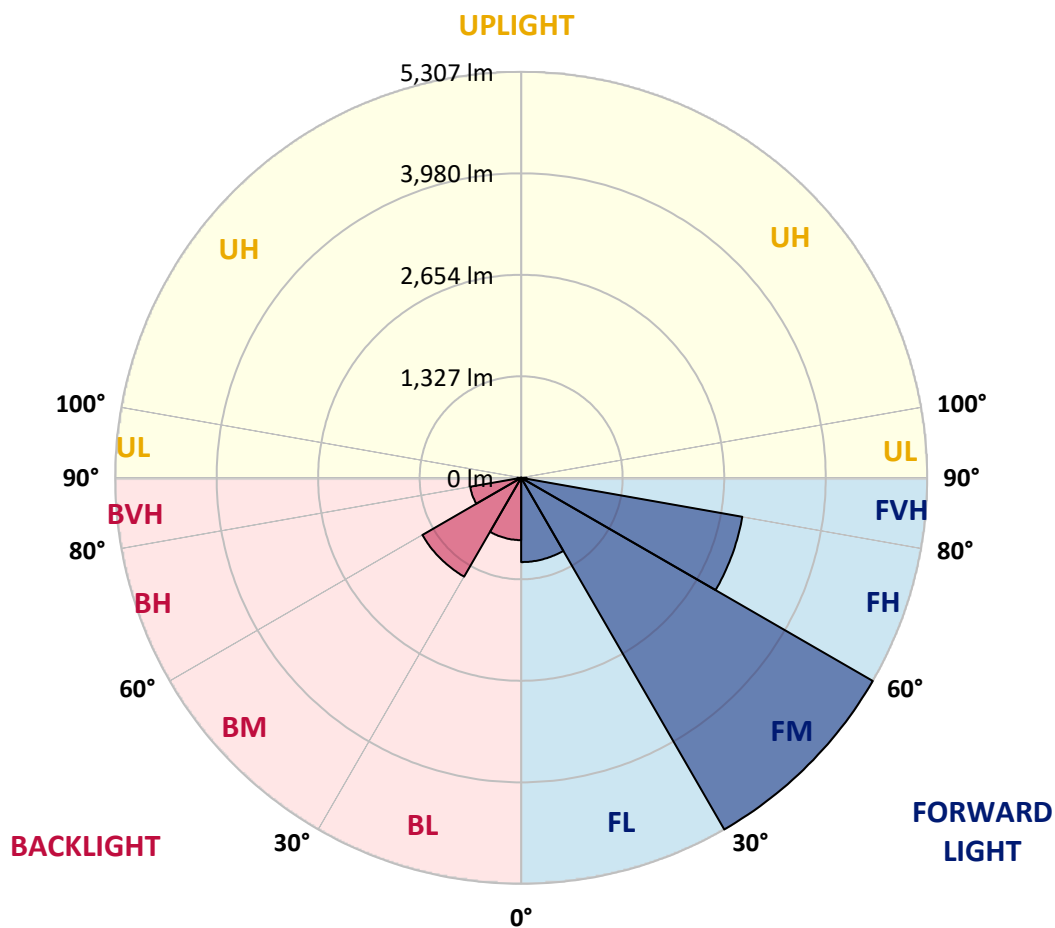
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.5	8.9			
FM	(30°-60°)	5307.1	42.6			
FH	(60°-80°)	2934.9	23.6			G2/5000
FVH	(80°-90°)	70.8	0.6			G1/100
BL	(0°-30°)	814.6	6.5	B2/1000		
BM	(30°-60°)	1492.0	12.0	B2/2500		
BH	(60°-80°)	676.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	47.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1
2.5°	2033.7	2030.5	2036.9	2046.6	2051.4	2043.4	2040.1	2038.5	2038.5	2033.7	2041.8
5°	1937.7	1936.1	1950.5	1968.1	2001.7	2025.7	2057.8	2077.0	2070.6	2061.0	2067.4
7.5°	1812.8	1809.6	1827.2	1860.8	1907.2	1960.1	2038.5	2099.4	2123.4	2120.2	2118.6
10°	1860.8	1857.6	1856.0	1846.4	1862.4	1913.6	1995.3	2102.6	2184.3	2185.9	2187.5
12.5°	2027.3	2035.3	2027.3	1996.9	1961.7	1942.5	1990.5	2110.6	2235.5	2245.1	2285.2
15°	2254.7	2246.7	2230.7	2195.5	2141.0	2083.4	2048.2	2147.4	2309.2	2317.2	2405.3
17.5°	2454.9	2461.3	2451.7	2418.1	2354.0	2278.8	2171.5	2211.5	2387.6	2410.1	2533.4
20°	2672.7	2698.3	2685.5	2643.9	2591.0	2478.9	2344.4	2304.4	2474.1	2490.1	2666.3
22.5°	2924.1	2951.3	2927.3	2887.3	2844.0	2706.3	2533.4	2418.1	2546.2	2579.8	2794.4
25°	3225.2	3250.8	3228.4	3165.9	3111.5	2943.3	2736.7	2546.2	2616.6	2653.5	2898.5
27.5°	3463.8	3483.0	3503.8	3467.0	3383.7	3209.2	2948.1	2679.1	2687.1	2725.5	2994.6
30°	3676.8	3724.8	3742.4	3747.2	3676.8	3481.4	3164.3	2816.8	2748.0	2788.0	3090.6
32.5°	3968.2	4040.3	4011.4	4040.3	3998.6	3737.6	3388.5	2959.3	2826.4	2863.3	3181.9
35°	4394.2	4451.8	4376.6	4354.1	4286.9	3997.0	3604.7	3106.7	2930.5	2970.5	3268.4
37.5°	4852.2	4917.8	4808.9	4719.2	4591.1	4253.2	3790.5	3300.4	3074.6	3106.7	3348.5
40°	5252.5	5307.0	5212.5	5094.0	4879.4	4479.0	3950.6	3436.5	3218.8	3258.8	3441.4
42.5°	5622.4	5657.7	5552.0	5438.3	5151.6	4682.4	4123.5	3580.7	3386.9	3425.3	3516.6
45°	5997.1	6024.4	5877.0	5715.3	5379.0	4868.2	4314.1	3782.4	3633.5	3684.8	3638.3
47.5°	6064.4	6072.4	6046.8	5937.9	5558.4	5045.9	4549.5	4053.1	4009.8	4065.9	3848.1
50°	5598.4	5670.5	5829.0	5936.3	5630.4	5194.9	4784.9	4440.6	4528.7	4600.7	4283.7
52.5°	4693.6	4762.5	5129.2	5535.9	5457.5	5228.5	5037.9	4932.2	5260.5	5347.0	4876.2
55°	3739.2	3800.1	4187.6	4773.7	4898.6	5074.8	5308.6	5560.0	6194.1	6251.8	5526.3
57.5°	3079.4	3113.1	3390.1	3953.8	4154.0	4583.1	5454.3	6306.2	7143.7	7231.8	6091.6
60°	2525.4	2562.2	2768.8	3233.2	3499.0	3880.1	5339.0	7042.8	8277.5	8277.5	6817.0
62.5°	1900.8	1932.9	2125.0	2488.5	2935.3	3284.4	4970.7	7531.3	9132.6	9094.2	7342.3
65°	1305.1	1330.7	1470.1	1711.9	2113.8	2799.2	4467.8	7537.7	9699.5	9648.3	7566.5
66°	1095.3	1117.8	1236.3	1431.6	1769.5	2539.8	4290.1	7401.5	9818.0	9746.0	7472.0
67.5°	864.7	880.8	959.2	1074.5	1297.1	2056.2	4009.8	7015.6	9806.8	9763.6	7231.8
70°	618.1	629.3	687.0	711.0	767.1	1189.8	3185.1	6144.5	9020.5	9033.3	6287.0
72.5°	478.8	496.4	531.7	536.5	523.6	632.5	1932.9	5126.0	7379.1	7374.3	4666.4
75°	385.9	395.5	413.2	422.8	419.6	408.4	818.3	3824.1	5079.6	5138.8	2613.4
77.5°	304.3	302.7	318.7	331.5	341.1	320.3	374.7	2241.9	2663.1	2587.8	981.6
80°	224.2	224.2	246.6	251.4	265.8	269.0	249.8	864.7	914.4	831.1	254.6
82.5°	147.3	147.3	171.3	174.5	189.0	209.8	181.0	259.4	253.0	240.2	115.3
85°	80.1	76.9	84.9	96.1	104.1	123.3	108.9	129.7	132.9	131.3	76.9
87.5°	16.0	14.4	22.4	25.6	28.8	38.4	35.2	52.8	73.7	72.1	33.6
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°	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1	2040.1
2.5°	2053.0	2051.4	2069.0	2089.8	2113.8	2128.2	2134.6	2145.8	2137.8	2141.0	2150.6
5°	2083.4	2088.2	2113.8	2141.0	2152.2	2144.2	2126.6	2120.2	2105.8	2102.6	2099.4
7.5°	2128.2	2136.2	2161.9	2168.3	2134.6	2078.6	2038.5	2016.1	1992.1	1985.7	1982.5
10°	2201.9	2206.7	2213.1	2147.4	2064.2	1988.9	1939.3	1918.4	1902.4	1889.6	1892.8
12.5°	2294.8	2291.6	2241.9	2105.8	1987.3	1910.4	1876.8	1864.0	1852.8	1844.8	1843.2
15°	2411.7	2389.2	2246.7	2048.2	1915.2	1851.2	1827.2	1822.4	1809.6	1809.6	1808.0
17.5°	2530.2	2472.5	2243.5	1987.3	1846.4	1811.2	1796.7	1793.5	1790.3	1788.7	1793.5
20°	2648.7	2546.2	2217.9	1912.0	1798.3	1777.5	1774.3	1775.9	1772.7	1777.5	1774.3
22.5°	2752.8	2594.2	2169.9	1832.0	1764.7	1763.1	1755.1	1758.3	1769.5	1771.1	1775.9
25°	2832.8	2611.8	2099.4	1758.3	1740.7	1737.5	1747.1	1759.9	1769.5	1771.1	1779.1
27.5°	2898.5	2602.2	2011.3	1700.7	1699.1	1716.7	1745.5	1750.3	1751.9	1751.9	1745.5
30°	2948.1	2581.4	1899.2	1636.6	1644.6	1687.8	1715.1	1715.1	1702.3	1699.1	1708.7
32.5°	2959.3	2554.2	1777.5	1570.9	1583.8	1635.0	1668.6	1657.4	1643.0	1643.0	1649.4
35°	2968.9	2517.4	1679.8	1481.3	1500.5	1561.3	1593.4	1570.9	1554.9	1550.1	1548.5
37.5°	2965.7	2502.9	1591.8	1367.6	1393.2	1452.4	1473.3	1452.4	1428.4	1417.2	1431.6
40°	2968.9	2493.3	1481.3	1242.7	1268.3	1303.5	1330.7	1314.7	1292.3	1263.5	1277.9
42.5°	2988.2	2506.1	1359.6	1121.0	1121.0	1140.2	1186.6	1175.4	1121.0	1109.8	1122.6
45°	3090.6	2575.0	1237.9	999.3	981.6	994.5	1042.5	994.5	960.8	960.8	972.0
47.5°	3338.9	2703.1	1130.6	892.0	850.3	876.0	888.8	843.9	818.3	811.9	823.1
50°	3844.9	2959.3	1066.5	803.9	752.6	771.9	763.9	762.3	736.6	739.8	746.2
52.5°	4613.6	3459.0	1047.3	760.7	696.6	701.4	693.4	696.6	691.8	707.8	712.6
55°	5451.1	3985.8	1071.3	767.1	658.2	624.5	627.7	643.8	663.0	688.6	693.4
57.5°	6077.2	4250.0	1133.8	810.3	610.1	558.9	566.9	597.3	634.1	655.0	666.2
60°	6543.2	4218.0	1225.1	821.5	552.5	499.6	514.0	558.9	590.9	608.5	619.7
62.5°	6695.3	4017.8	1247.5	739.8	477.2	443.6	478.8	525.3	539.7	558.9	566.9
65°	6570.4	3734.4	1084.1	600.5	419.6	401.9	453.2	488.4	507.6	517.2	518.8
66°	6423.1	3564.7	996.1	546.1	398.7	389.1	443.6	472.4	491.6	490.0	491.6
67.5°	6099.6	3209.2	853.5	469.2	368.3	369.9	427.6	446.8	453.2	448.4	448.4
70°	4999.5	2259.5	611.7	355.5	323.5	345.9	384.3	389.1	403.5	397.1	397.1
72.5°	3082.6	1109.8	410.0	272.2	288.2	323.5	321.9	337.9	371.5	381.1	387.5
75°	1514.9	450.0	270.6	230.6	257.8	270.6	267.4	307.5	355.5	397.1	411.6
77.5°	574.9	224.2	189.0	201.8	208.2	203.4	213.0	278.6	355.5	430.8	445.2
80°	177.8	155.3	148.9	166.5	156.9	148.9	160.1	230.6	301.1	326.7	326.7
82.5°	107.3	121.7	115.3	113.7	105.7	107.3	115.3	164.9	232.2	243.4	243.4
85°	75.3	80.1	65.7	62.5	60.9	59.3	59.3	96.1	137.7	136.1	140.9
87.5°	28.8	32.0	24.0	24.0	22.4	16.0	12.8	16.0	16.0	11.2	8.0
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)