

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: P1210077

Luminaire Tested: **ARCH2-100-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210077
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: ARCH2-100-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12903 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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



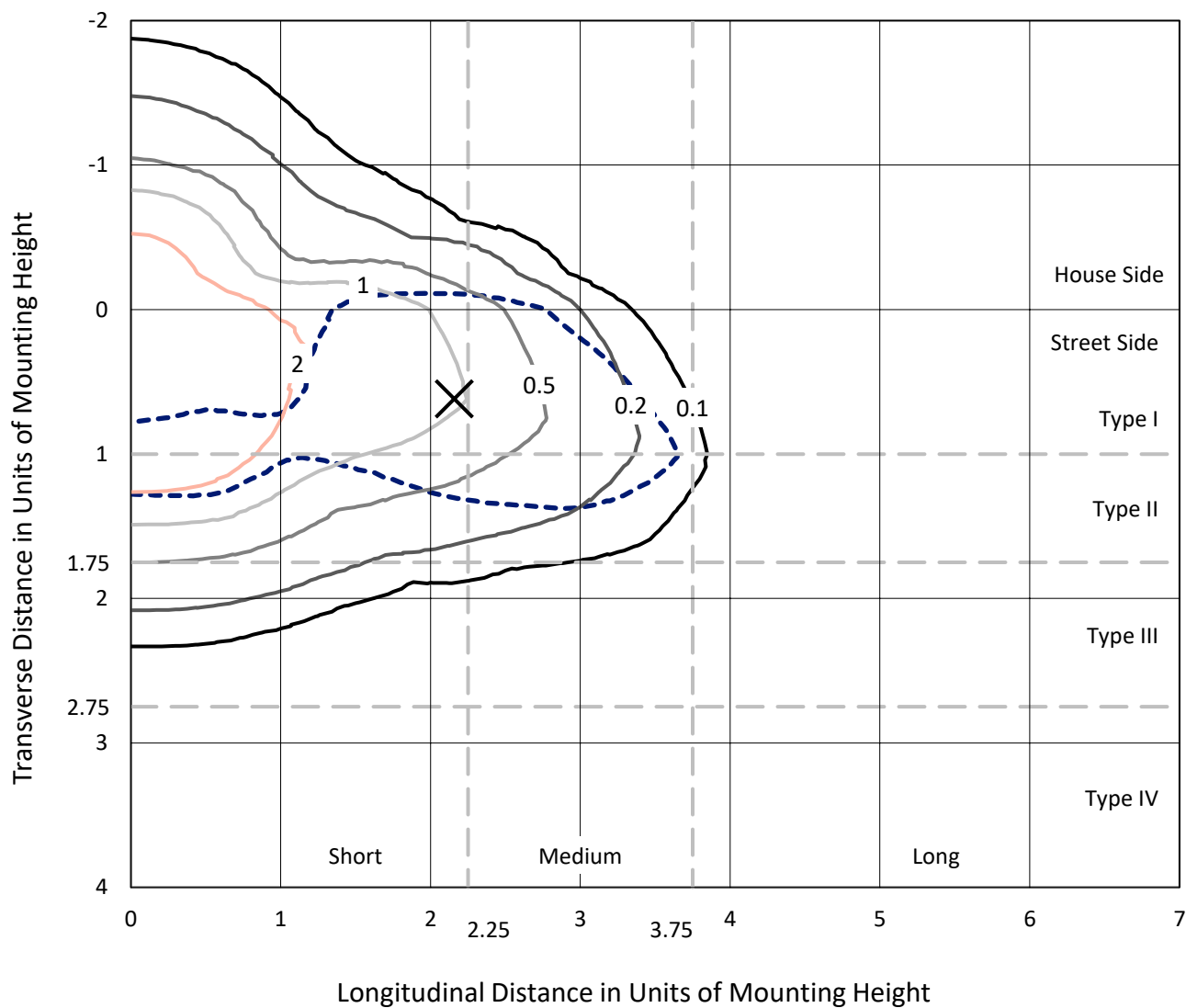
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

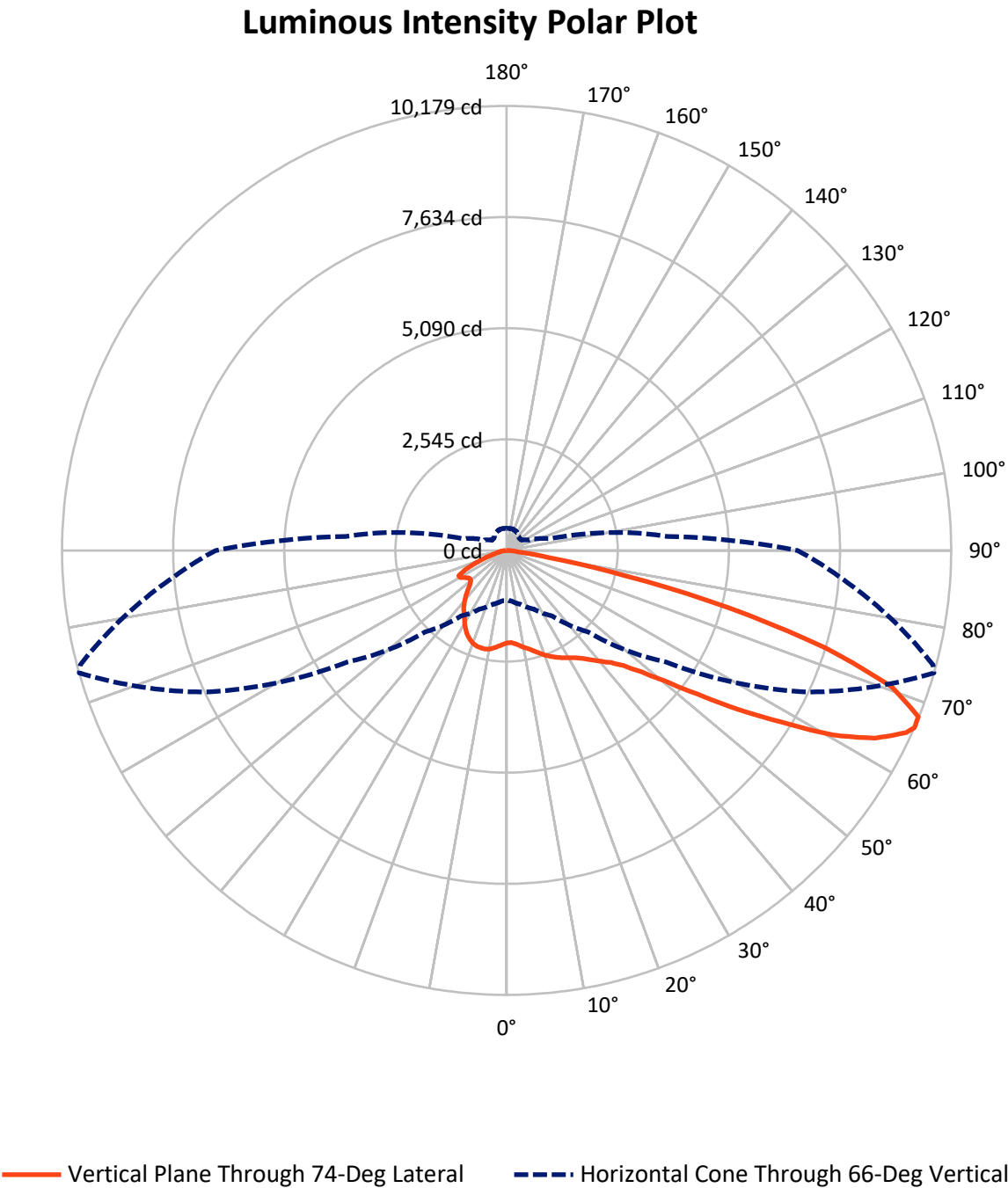
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type II - Short - N/A

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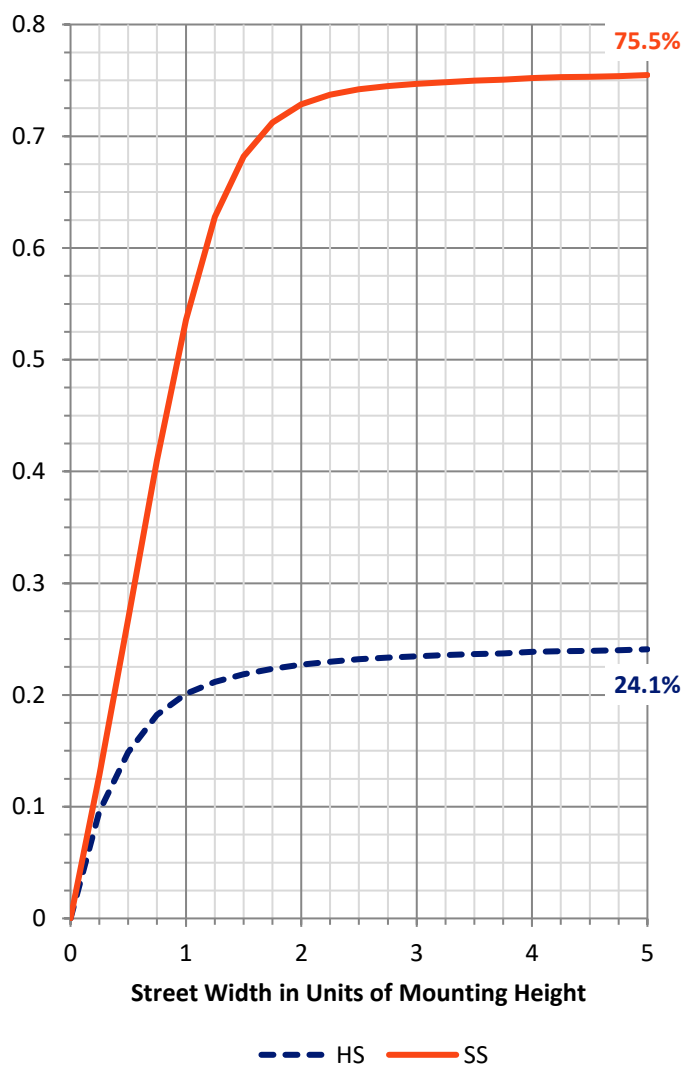
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.2	0.0	3142.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9760.8	0.0	9760.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	12903.0	0.0	12903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.6
10°-20°	620.5	4.8
20°-30°	1164.4	9.0
30°-40°	1791.1	13.9
40°-50°	2409.1	18.7
50°-60°	2849.1	22.1
60°-70°	2635.6	20.4
70°-80°	1108.8	8.6
80°-90°	122.7	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°	12903.0	100.0
0°-180°	12903.0	100.0

Coefficient of Utilization



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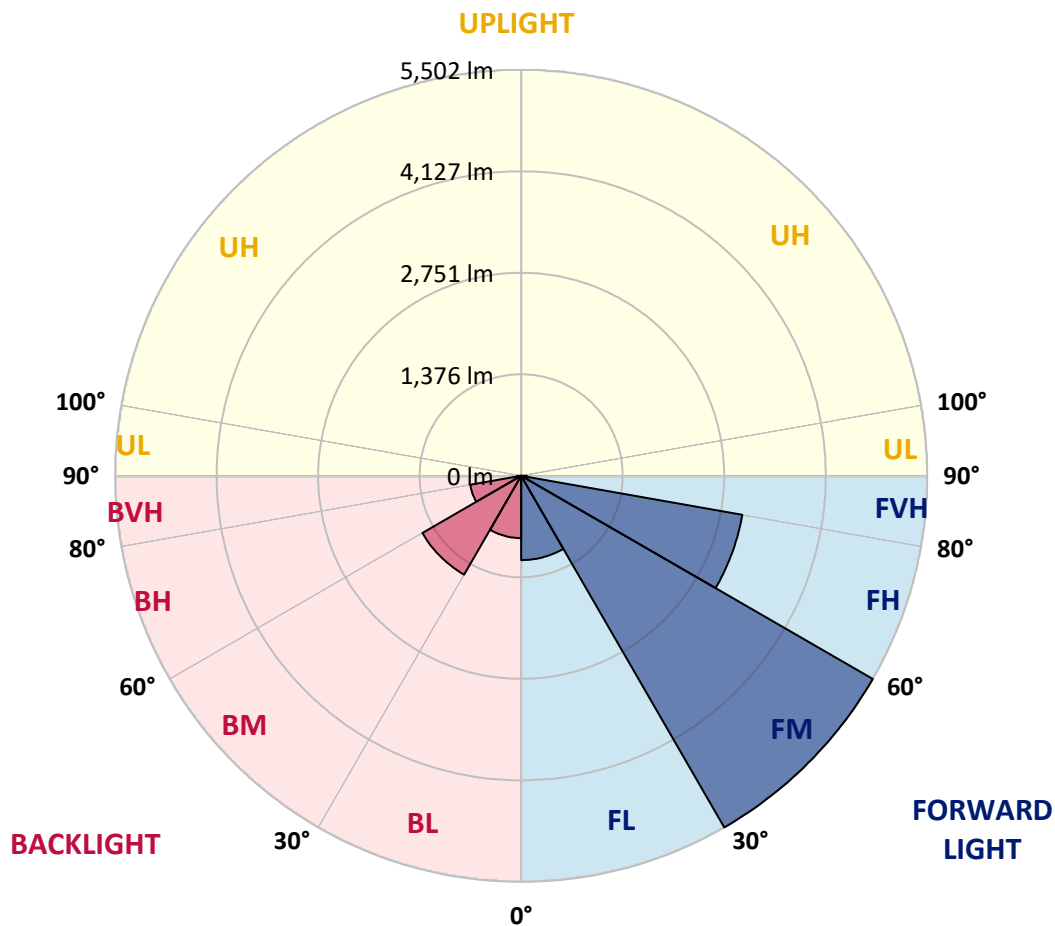
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1142.1	8.9			
FM	(30°-60°)	5502.4	42.6			
FH	(60°-80°)	3042.9	23.6			G2/5000
FVH	(80°-90°)	73.4	0.6			G1/100
BL	(0°-30°)	844.6	6.5	B2/1000		
BM	(30°-60°)	1546.9	12.0	B2/2500		
BH	(60°-80°)	701.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2
2.5°	2108.6	2105.3	2111.9	2121.9	2126.9	2118.6	2115.2	2113.6	2113.6	2108.6	2116.9
5°	2009.0	2007.3	2022.3	2040.5	2075.4	2100.3	2133.5	2153.4	2146.8	2136.8	2143.5
7.5°	1879.5	1876.1	1894.4	1929.3	1977.4	2032.2	2113.6	2176.7	2201.6	2198.2	2196.6
10°	1929.3	1926.0	1924.3	1914.3	1930.9	1984.1	2068.7	2180.0	2264.7	2266.3	2268.0
12.5°	2101.9	2110.2	2101.9	2070.4	2033.9	2014.0	2063.8	2188.3	2317.8	2327.7	2369.3
15°	2337.7	2329.4	2312.8	2276.3	2219.8	2160.1	2123.5	2226.5	2394.2	2402.5	2493.8
17.5°	2545.3	2551.9	2541.9	2507.1	2440.7	2362.6	2251.4	2292.9	2475.5	2498.8	2626.6
20°	2771.1	2797.6	2784.3	2741.2	2686.4	2570.2	2430.7	2389.2	2565.2	2581.8	2764.4
22.5°	3031.7	3059.9	3035.0	2993.5	2948.7	2805.9	2626.6	2507.1	2639.9	2674.8	2897.2
25°	3343.9	3370.4	3347.2	3282.4	3226.0	3051.6	2837.5	2639.9	2712.9	2751.1	3005.2
27.5°	3591.2	3611.2	3632.8	3594.6	3508.2	3327.3	3056.6	2777.7	2786.0	2825.8	3104.8
30°	3812.1	3861.9	3880.1	3885.1	3812.1	3609.5	3280.8	2920.5	2849.1	2890.6	3204.4
32.5°	4114.2	4189.0	4159.1	4189.0	4145.8	3875.2	3513.2	3068.2	2930.4	2968.6	3299.0
35°	4555.9	4615.7	4537.6	4514.4	4444.6	4144.1	3737.4	3221.0	3038.4	3079.9	3388.7
37.5°	5030.7	5098.8	4985.9	4892.9	4760.1	4409.8	3929.9	3421.9	3187.8	3221.0	3471.7
40°	5445.8	5502.3	5404.3	5281.4	5059.0	4643.9	4096.0	3563.0	3337.2	3378.7	3568.0
42.5°	5829.3	5865.9	5756.3	5638.4	5341.2	4854.7	4275.3	3712.4	3511.5	3551.4	3646.0
45°	6217.8	6246.1	6093.3	5925.6	5577.0	5047.3	4472.9	3921.6	3767.2	3820.4	3772.2
47.5°	6287.6	6295.9	6269.3	6156.4	5762.9	5231.6	4716.9	4202.2	4157.4	4215.5	3989.7
50°	5804.4	5879.1	6043.5	6154.8	5837.6	5386.0	4961.0	4604.0	4695.3	4770.1	4441.3
52.5°	4866.4	4937.8	5318.0	5739.7	5658.3	5420.9	5223.3	5113.7	5454.1	5543.8	5055.6
55°	3876.8	3939.9	4341.7	4949.4	5078.9	5261.5	5503.9	5764.6	6422.1	6481.8	5729.7
57.5°	3192.8	3227.6	3514.9	4099.3	4306.8	4751.8	5655.0	6538.3	7406.6	7497.9	6315.8
60°	2618.3	2656.5	2870.7	3352.2	3627.8	4022.9	5535.5	7302.0	8582.1	8582.1	7067.9
62.5°	1970.8	2004.0	2203.2	2580.1	3043.3	3405.3	5153.6	7808.4	9468.7	9428.9	7612.5
65°	1353.1	1379.7	1524.2	1774.9	2191.6	2902.2	4632.3	7815.1	10056.5	10003.3	7844.9
66°	1135.6	1158.9	1281.8	1484.3	1834.6	2633.2	4448.0	7673.9	10179.3	10104.6	7747.0
67.5°	896.6	913.2	994.5	1114.1	1344.8	2131.8	4157.4	7273.8	10167.7	10122.9	7497.9
70°	640.9	652.5	712.3	737.2	795.3	1233.6	3302.3	6370.6	9352.5	9365.8	6518.4
72.5°	496.4	514.7	551.2	556.2	542.9	655.8	2004.0	5314.6	7650.7	7645.7	4838.1
75°	400.1	410.1	428.4	438.3	435.0	423.4	848.4	3964.8	5266.5	5327.9	2709.6
77.5°	315.5	313.8	330.4	343.7	353.6	332.1	388.5	2324.4	2761.1	2683.1	1017.8
80°	232.4	232.4	255.7	260.7	275.6	278.9	259.0	896.6	948.0	861.7	264.0
82.5°	152.7	152.7	177.7	181.0	195.9	217.5	187.6	269.0	262.3	249.0	119.5
85°	83.0	79.7	88.0	99.6	107.9	127.8	112.9	134.5	137.8	136.1	79.7
87.5°	16.6	14.9	23.2	26.6	29.9	39.8	36.5	54.8	76.4	74.7	34.9
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°	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2	2115.2
2.5°	2128.5	2126.9	2145.1	2166.7	2191.6	2206.5	2213.2	2224.8	2216.5	2219.8	2229.8
5°	2160.1	2165.0	2191.6	2219.8	2231.5	2223.2	2204.9	2198.2	2183.3	2180.0	2176.7
7.5°	2206.5	2214.8	2241.4	2248.1	2213.2	2155.1	2113.6	2090.3	2065.4	2058.8	2055.5
10°	2282.9	2287.9	2294.5	2226.5	2140.1	2062.1	2010.6	1989.0	1972.4	1959.2	1962.5
12.5°	2379.2	2375.9	2324.4	2183.3	2060.4	1980.7	1945.9	1932.6	1921.0	1912.7	1911.0
15°	2500.4	2477.2	2329.4	2123.5	1985.7	1919.3	1894.4	1889.4	1876.1	1876.1	1874.5
17.5°	2623.3	2563.5	2326.1	2060.4	1914.3	1877.8	1862.9	1859.5	1856.2	1854.6	1859.5
20°	2746.1	2639.9	2299.5	1982.4	1864.5	1842.9	1839.6	1841.3	1838.0	1842.9	1839.6
22.5°	2854.1	2689.7	2249.7	1899.4	1829.7	1828.0	1819.7	1823.0	1834.6	1836.3	1841.3
25°	2937.1	2708.0	2176.7	1823.0	1804.8	1801.4	1811.4	1824.7	1834.6	1836.3	1844.6
27.5°	3005.2	2698.0	2085.3	1763.2	1761.6	1779.8	1809.7	1814.7	1816.4	1816.4	1809.7
30°	3056.6	2676.4	1969.1	1696.8	1705.1	1750.0	1778.2	1778.2	1764.9	1761.6	1771.5
32.5°	3068.2	2648.2	1842.9	1628.8	1642.0	1695.2	1730.0	1718.4	1703.5	1703.5	1710.1
35°	3078.2	2610.0	1741.7	1535.8	1555.7	1618.8	1652.0	1628.8	1612.2	1607.2	1605.5
37.5°	3074.9	2595.1	1650.3	1417.9	1444.5	1505.9	1527.5	1505.9	1481.0	1469.4	1484.3
40°	3078.2	2585.1	1535.8	1288.4	1315.0	1351.5	1379.7	1363.1	1339.9	1310.0	1324.9
42.5°	3098.1	2598.4	1409.6	1162.2	1162.2	1182.1	1230.3	1218.7	1162.2	1150.6	1163.9
45°	3204.4	2669.8	1283.4	1036.0	1017.8	1031.1	1080.9	1031.1	996.2	996.2	1007.8
47.5°	3461.7	2802.6	1172.2	924.8	881.6	908.2	921.5	875.0	848.4	841.8	853.4
50°	3986.4	3068.2	1105.8	833.5	780.3	800.3	792.0	790.3	763.7	767.1	773.7
52.5°	4783.3	3586.3	1085.8	788.6	722.2	727.2	718.9	722.2	717.3	733.9	738.8
55°	5651.7	4132.5	1110.7	795.3	682.4	647.5	650.8	667.4	687.4	713.9	718.9
57.5°	6300.9	4406.5	1175.5	840.1	632.6	579.4	587.7	619.3	657.5	679.1	690.7
60°	6784.0	4373.2	1270.1	851.7	572.8	518.0	533.0	579.4	612.7	630.9	642.5
62.5°	6941.7	4165.7	1293.4	767.1	494.8	459.9	496.4	544.6	559.5	579.4	587.7
65°	6812.2	3871.8	1124.0	622.6	435.0	416.7	469.9	506.4	526.3	536.3	537.9
66°	6659.5	3695.8	1032.7	566.2	413.4	403.5	459.9	489.8	509.7	508.1	509.7
67.5°	6324.1	3327.3	884.9	486.5	381.9	383.5	443.3	463.2	469.9	464.9	464.9
70°	5183.5	2342.7	634.2	368.6	335.4	358.6	398.5	403.5	418.4	411.8	411.8
72.5°	3196.1	1150.6	425.0	282.3	298.9	335.4	333.7	350.3	385.2	395.2	401.8
75°	1570.7	466.5	280.6	239.1	267.3	280.6	277.3	318.8	368.6	411.8	426.7
77.5°	596.1	232.4	195.9	209.2	215.8	210.9	220.8	288.9	368.6	446.6	461.6
80°	184.3	161.0	154.4	172.7	162.7	154.4	166.0	239.1	312.1	338.7	338.7
82.5°	111.2	126.2	119.5	117.9	109.6	111.2	119.5	171.0	240.7	252.4	252.4
85°	78.0	83.0	68.1	64.8	63.1	61.4	61.4	99.6	142.8	141.1	146.1
87.5°	29.9	33.2	24.9	24.9	23.2	16.6	13.3	16.6	16.6	11.6	8.3
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)