

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: P1210333

Luminaire Tested: **ARCH2-90-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210333
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: ARCH2-90-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12111 lumens
Efficiency: N/A
Efficacy: 129.3 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

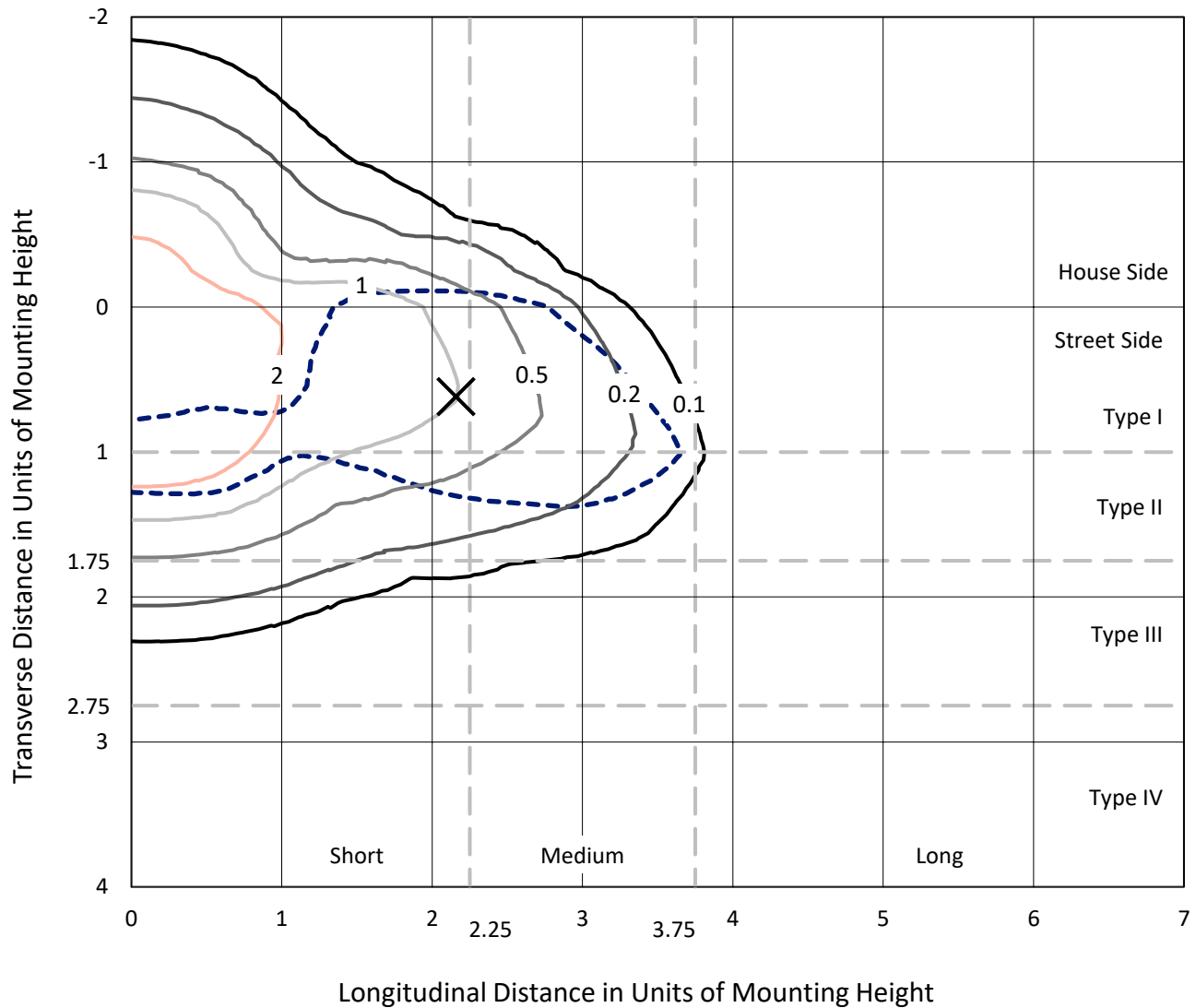
Input Watts (W): 93.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

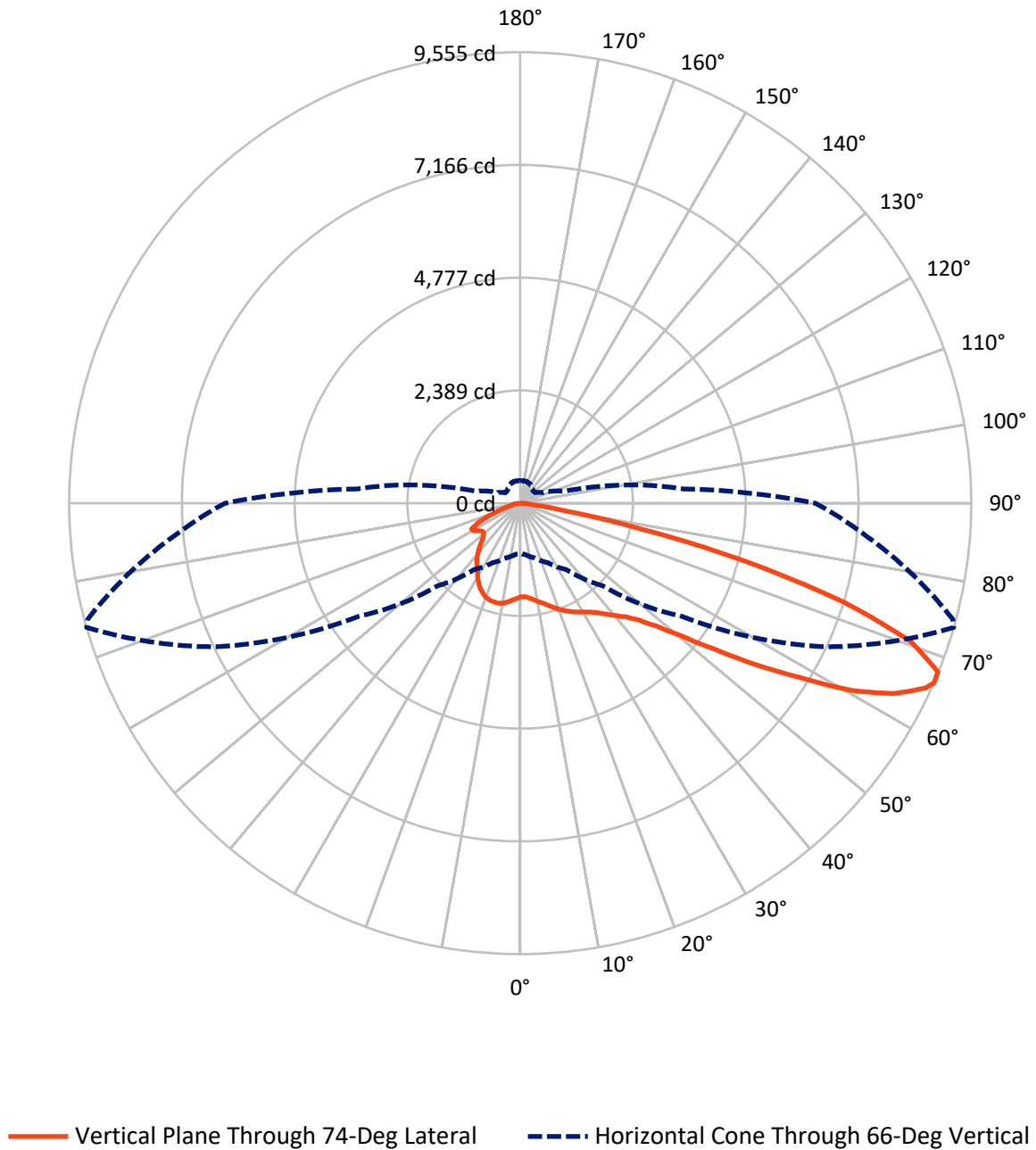
✕ Max cd
 --- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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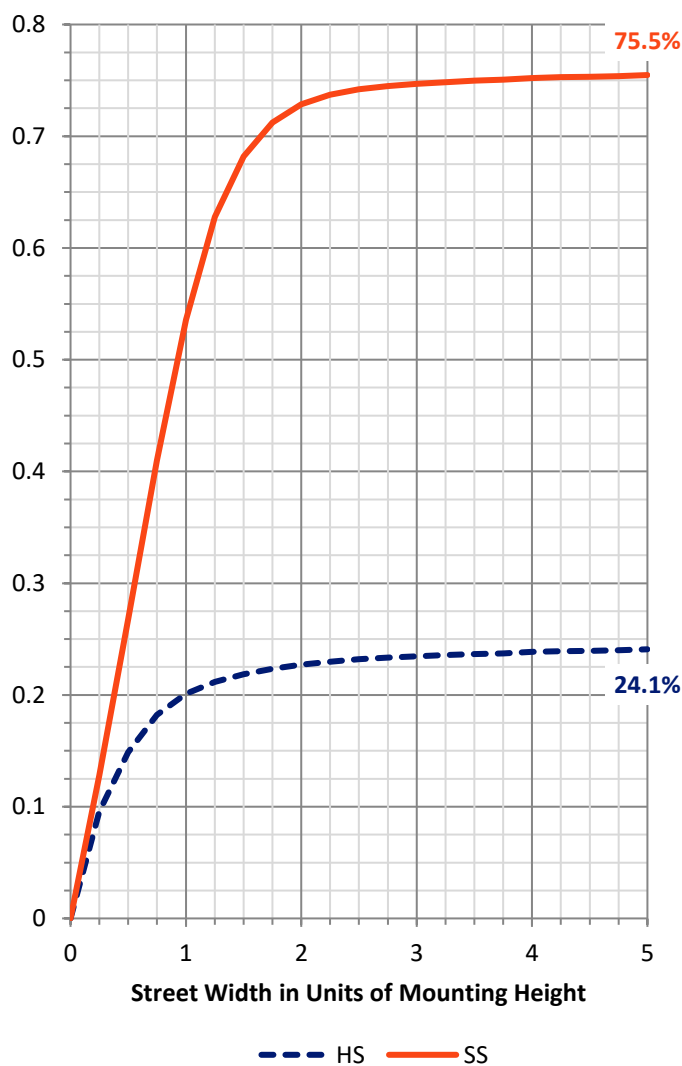
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.4	0.0	2949.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9161.6	0.0	9161.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	12111.0	0.0	12111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	1.6
10°-20°	582.4	4.8
20°-30°	1092.9	9.0
30°-40°	1681.1	13.9
40°-50°	2261.3	18.7
50°-60°	2674.2	22.1
60°-70°	2473.8	20.4
70°-80°	1040.7	8.6
80°-90°	115.2	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°	12111.0	100.0
0°-180°	12111.0	100.0

Coefficient of Utilization



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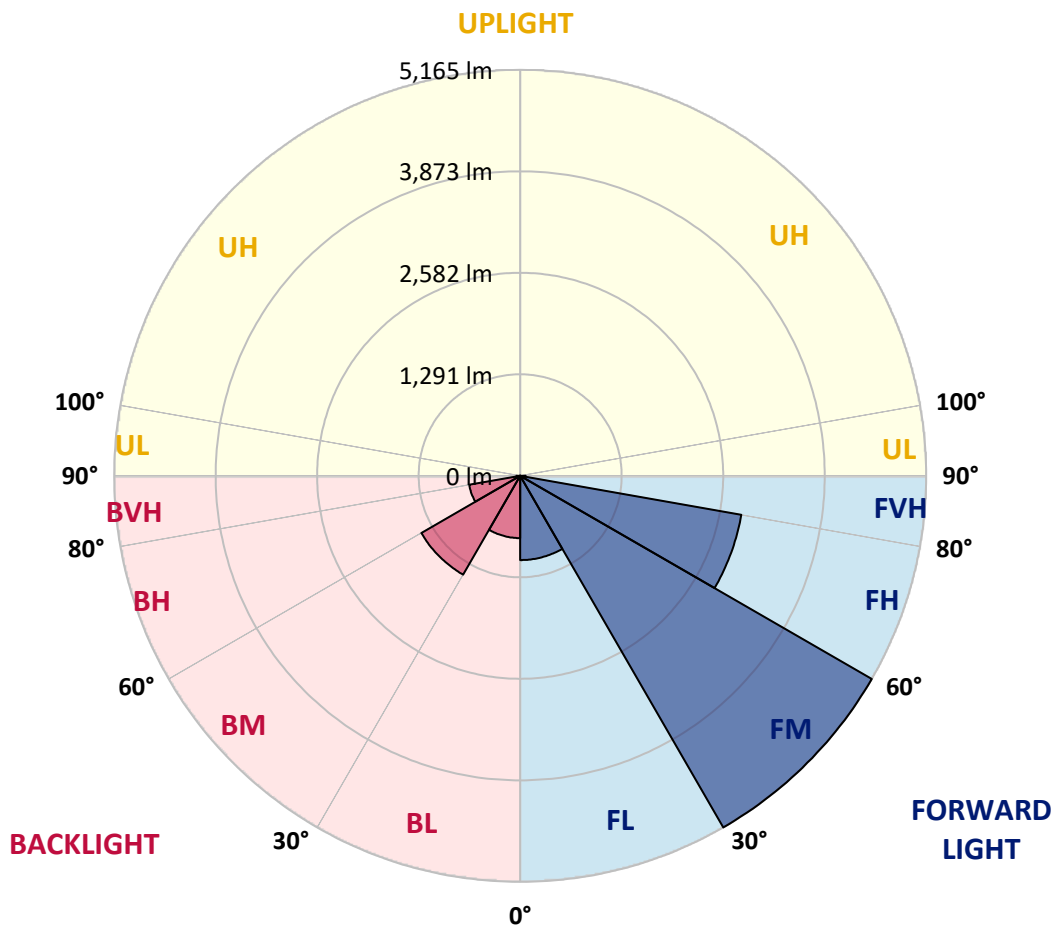
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1072.0	8.9			
FM	(30°-60°)	5164.7	42.6			
FH	(60°-80°)	2856.1	23.6			G2/5000
FVH	(80°-90°)	68.9	0.6			G1/100
BL	(0°-30°)	792.7	6.5	B2/1000		
BM	(30°-60°)	1452.0	12.0	B2/2500		
BH	(60°-80°)	658.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	46.3	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°	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1979.2	1976.0	1982.3	1991.6	1996.3	1988.5	1985.4	1983.8	1983.8	1979.2	1987.0
5°	1885.7	1884.1	1898.1	1915.3	1948.0	1971.4	2002.5	2021.2	2015.0	2005.7	2011.9
7.5°	1764.1	1761.0	1778.1	1810.9	1856.0	1907.5	1983.8	2043.1	2066.4	2063.3	2061.8
10°	1810.9	1807.7	1806.2	1796.8	1812.4	1862.3	1941.8	2046.2	2125.7	2127.2	2128.8
12.5°	1972.9	1980.7	1972.9	1943.3	1909.0	1890.3	1937.1	2054.0	2175.5	2184.9	2223.8
15°	2194.2	2186.4	2170.8	2136.6	2083.6	2027.5	1993.2	2089.8	2247.2	2255.0	2340.7
17.5°	2389.0	2395.3	2385.9	2353.2	2290.8	2217.6	2113.2	2152.1	2323.6	2345.4	2465.4
20°	2601.0	2625.9	2613.4	2572.9	2521.5	2412.4	2281.5	2242.5	2407.7	2423.3	2594.7
22.5°	2845.6	2872.1	2848.7	2809.8	2767.7	2633.7	2465.4	2353.2	2477.8	2510.6	2719.4
25°	3138.6	3163.5	3141.7	3080.9	3028.0	2864.3	2663.3	2477.8	2546.4	2582.3	2820.7
27.5°	3370.8	3389.5	3409.8	3373.9	3292.9	3123.0	2869.0	2607.2	2615.0	2652.4	2914.2
30°	3578.1	3624.8	3642.0	3646.6	3578.1	3388.0	3079.4	2741.2	2674.2	2713.2	3007.7
32.5°	3861.7	3931.8	3903.8	3931.8	3891.3	3637.3	3297.6	2879.9	2750.6	2786.4	3096.5
35°	4276.2	4332.3	4259.1	4237.3	4171.8	3889.8	3507.9	3023.3	2851.9	2890.8	3180.7
37.5°	4721.9	4785.8	4679.9	4592.6	4467.9	4139.1	3688.7	3211.9	2992.1	3023.3	3258.6
40°	5111.5	5164.5	5072.6	4957.3	4748.4	4358.8	3844.6	3344.3	3132.4	3171.3	3349.0
42.5°	5471.5	5505.8	5403.0	5292.3	5013.4	4556.7	4012.9	3484.6	3296.0	3333.4	3422.2
45°	5836.2	5862.7	5719.3	5561.9	5234.6	4737.5	4198.3	3680.9	3536.0	3585.9	3540.7
47.5°	5901.6	5909.4	5884.5	5778.5	5409.2	4910.5	4427.4	3944.3	3902.2	3956.8	3744.8
50°	5448.1	5518.3	5672.6	5777.0	5479.3	5055.4	4656.5	4321.4	4407.1	4477.3	4168.7
52.5°	4567.7	4634.7	4991.5	5387.4	5311.0	5088.2	4902.7	4799.9	5119.3	5203.5	4745.3
55°	3638.9	3698.1	4075.2	4645.6	4767.1	4938.6	5166.1	5410.7	6027.9	6084.0	5378.0
57.5°	2996.8	3029.5	3299.1	3847.7	4042.5	4460.1	5307.9	6137.0	6952.0	7037.7	5928.1
60°	2457.6	2493.4	2694.5	3146.4	3405.1	3776.0	5195.7	6853.8	8055.3	8055.3	6634.1
62.5°	1849.8	1881.0	2068.0	2421.7	2856.5	3196.3	4837.3	7329.1	8887.5	8850.1	7145.2
65°	1270.1	1295.0	1430.6	1665.9	2057.1	2724.1	4347.9	7335.4	9439.2	9389.3	7363.4
66°	1065.9	1087.8	1203.1	1393.2	1722.0	2471.6	4174.9	7202.9	9554.5	9484.4	7271.5
67.5°	841.5	857.1	933.5	1045.7	1262.3	2001.0	3902.2	6827.3	9543.6	9501.5	7037.7
70°	601.5	612.4	668.6	691.9	746.5	1157.9	3099.6	5979.6	8778.4	8790.9	6118.3
72.5°	466.0	483.1	517.4	522.1	509.6	615.6	1881.0	4988.4	7181.1	7176.4	4541.2
75°	375.6	384.9	402.1	411.4	408.3	397.4	796.3	3721.4	4943.2	5000.9	2543.3
77.5°	296.1	294.5	310.1	322.6	331.9	311.7	364.7	2181.8	2591.6	2518.4	955.3
80°	218.2	218.2	240.0	244.7	258.7	261.8	243.1	841.5	889.8	808.8	247.8
82.5°	143.4	143.4	166.7	169.9	183.9	204.1	176.1	252.5	246.2	233.8	112.2
85°	77.9	74.8	82.6	93.5	101.3	120.0	106.0	126.2	129.3	127.8	74.8
87.5°	15.6	14.0	21.8	24.9	28.1	37.4	34.3	51.4	71.7	70.1	32.7
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°	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.9	1996.3	2013.4	2033.7	2057.1	2071.1	2077.3	2088.2	2080.5	2083.6	2092.9
5°	2027.5	2032.1	2057.1	2083.6	2094.5	2086.7	2069.5	2063.3	2049.3	2046.2	2043.1
7.5°	2071.1	2078.9	2103.8	2110.1	2077.3	2022.8	1983.8	1962.0	1938.6	1932.4	1929.3
10°	2142.8	2147.5	2153.7	2089.8	2008.8	1935.5	1887.2	1867.0	1851.4	1838.9	1842.0
12.5°	2233.2	2230.1	2181.8	2049.3	1934.0	1859.2	1826.4	1814.0	1803.1	1795.3	1793.7
15°	2346.9	2325.1	2186.4	1993.2	1863.8	1801.5	1778.1	1773.5	1761.0	1761.0	1759.4
17.5°	2462.3	2406.2	2183.3	1934.0	1796.8	1762.5	1748.5	1745.4	1742.3	1740.7	1745.4
20°	2577.6	2477.8	2158.4	1860.7	1750.1	1729.8	1726.7	1728.3	1725.1	1729.8	1726.7
22.5°	2678.9	2524.6	2111.6	1782.8	1717.4	1715.8	1708.0	1711.1	1722.0	1723.6	1728.3
25°	2756.8	2541.7	2043.1	1711.1	1694.0	1690.9	1700.2	1712.7	1722.0	1723.6	1731.4
27.5°	2820.7	2532.4	1957.3	1655.0	1653.5	1670.6	1698.7	1703.3	1704.9	1704.9	1698.7
30°	2869.0	2512.1	1848.3	1592.7	1600.5	1642.5	1669.0	1669.0	1656.6	1653.5	1662.8
32.5°	2879.9	2485.6	1729.8	1528.8	1541.3	1591.1	1623.8	1612.9	1598.9	1598.9	1605.1
35°	2889.3	2449.8	1634.8	1441.5	1460.2	1519.4	1550.6	1528.8	1513.2	1508.5	1507.0
37.5°	2886.1	2435.8	1549.0	1330.9	1355.8	1413.5	1433.7	1413.5	1390.1	1379.2	1393.2
40°	2889.3	2426.4	1441.5	1209.3	1234.2	1268.5	1295.0	1279.4	1257.6	1229.6	1243.6
42.5°	2908.0	2438.9	1323.1	1090.9	1090.9	1109.6	1154.8	1143.9	1090.9	1080.0	1092.4
45°	3007.7	2505.9	1204.6	972.4	955.3	967.8	1014.5	967.8	935.0	935.0	945.9
47.5°	3249.3	2630.6	1100.2	868.0	827.5	852.4	864.9	821.3	796.3	790.1	801.0
50°	3741.7	2879.9	1037.9	782.3	732.4	751.1	743.4	741.8	716.9	720.0	726.2
52.5°	4489.7	3366.1	1019.2	740.2	677.9	682.6	674.8	677.9	673.2	688.8	693.5
55°	5304.8	3878.8	1042.6	746.5	640.5	607.8	610.9	626.5	645.2	670.1	674.8
57.5°	5914.1	4136.0	1103.3	788.5	593.7	543.9	551.7	581.3	617.1	637.4	648.3
60°	6367.6	4104.8	1192.2	799.5	537.6	486.2	500.2	543.9	575.0	592.2	603.1
62.5°	6515.7	3910.0	1214.0	720.0	464.4	431.7	466.0	511.2	525.2	543.9	551.7
65°	6394.1	3634.2	1055.0	584.4	408.3	391.2	441.0	475.3	494.0	503.4	504.9
66°	6250.7	3469.0	969.3	531.4	388.0	378.7	431.7	459.7	478.4	476.9	478.4
67.5°	5935.9	3123.0	830.6	456.6	358.4	360.0	416.1	434.8	441.0	436.4	436.4
70°	4865.3	2198.9	595.3	346.0	314.8	336.6	374.0	378.7	392.7	386.5	386.5
72.5°	2999.9	1080.0	398.9	264.9	280.5	314.8	313.2	328.8	361.5	370.9	377.1
75°	1474.2	437.9	263.4	224.4	250.9	263.4	260.3	299.2	346.0	386.5	400.5
77.5°	559.5	218.2	183.9	196.4	202.6	197.9	207.3	271.2	346.0	419.2	433.2
80°	173.0	151.2	144.9	162.1	152.7	144.9	155.8	224.4	293.0	317.9	317.9
82.5°	104.4	118.4	112.2	110.6	102.9	104.4	112.2	160.5	226.0	236.9	236.9
85°	73.2	77.9	63.9	60.8	59.2	57.7	57.7	93.5	134.0	132.5	137.1
87.5°	28.1	31.2	23.4	23.4	21.8	15.6	12.5	15.6	15.6	10.9	7.8
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)