

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: P1210809

Luminaire Tested: **ARCH3-80-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210809
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: ARCH3-80-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12278 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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

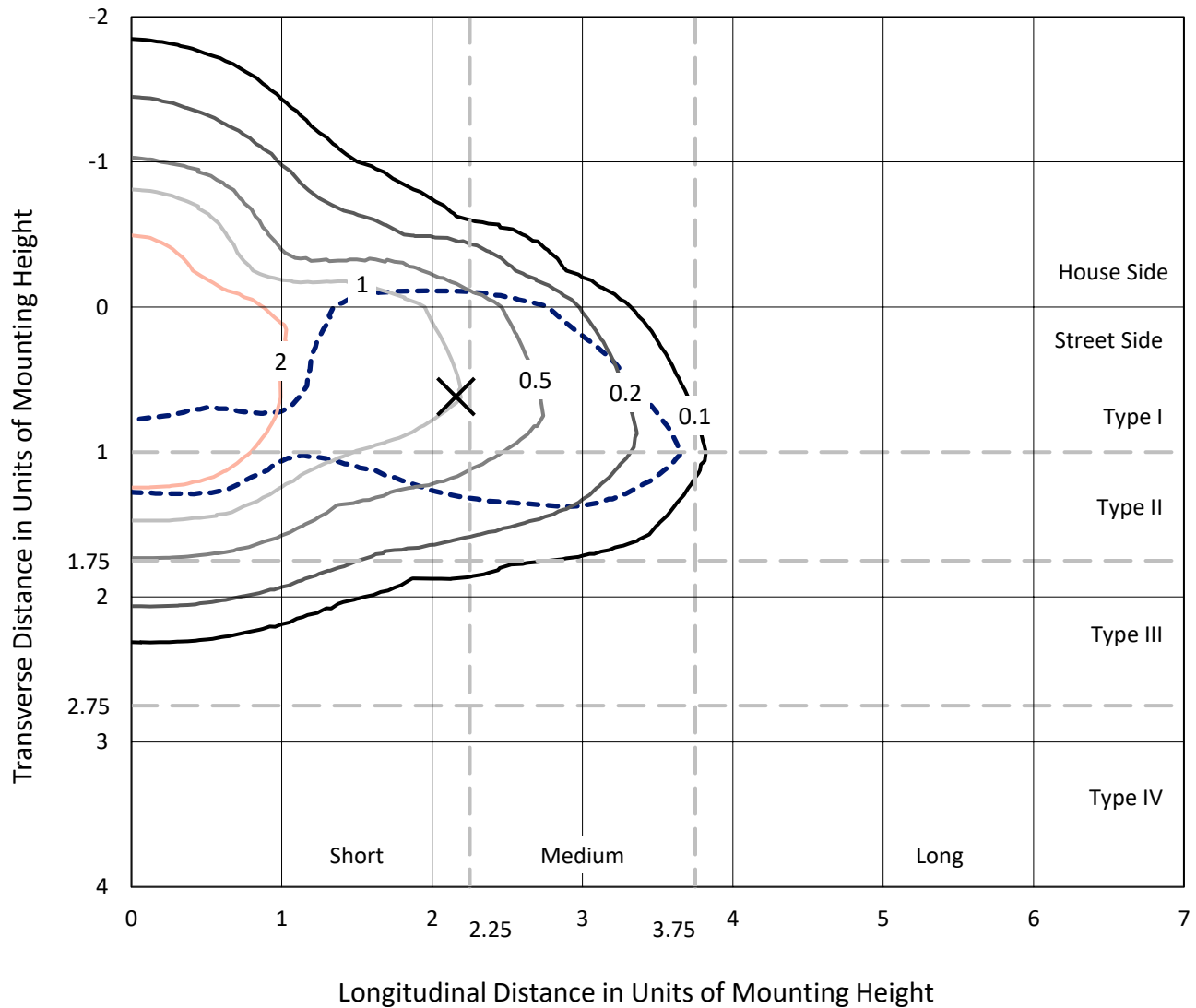


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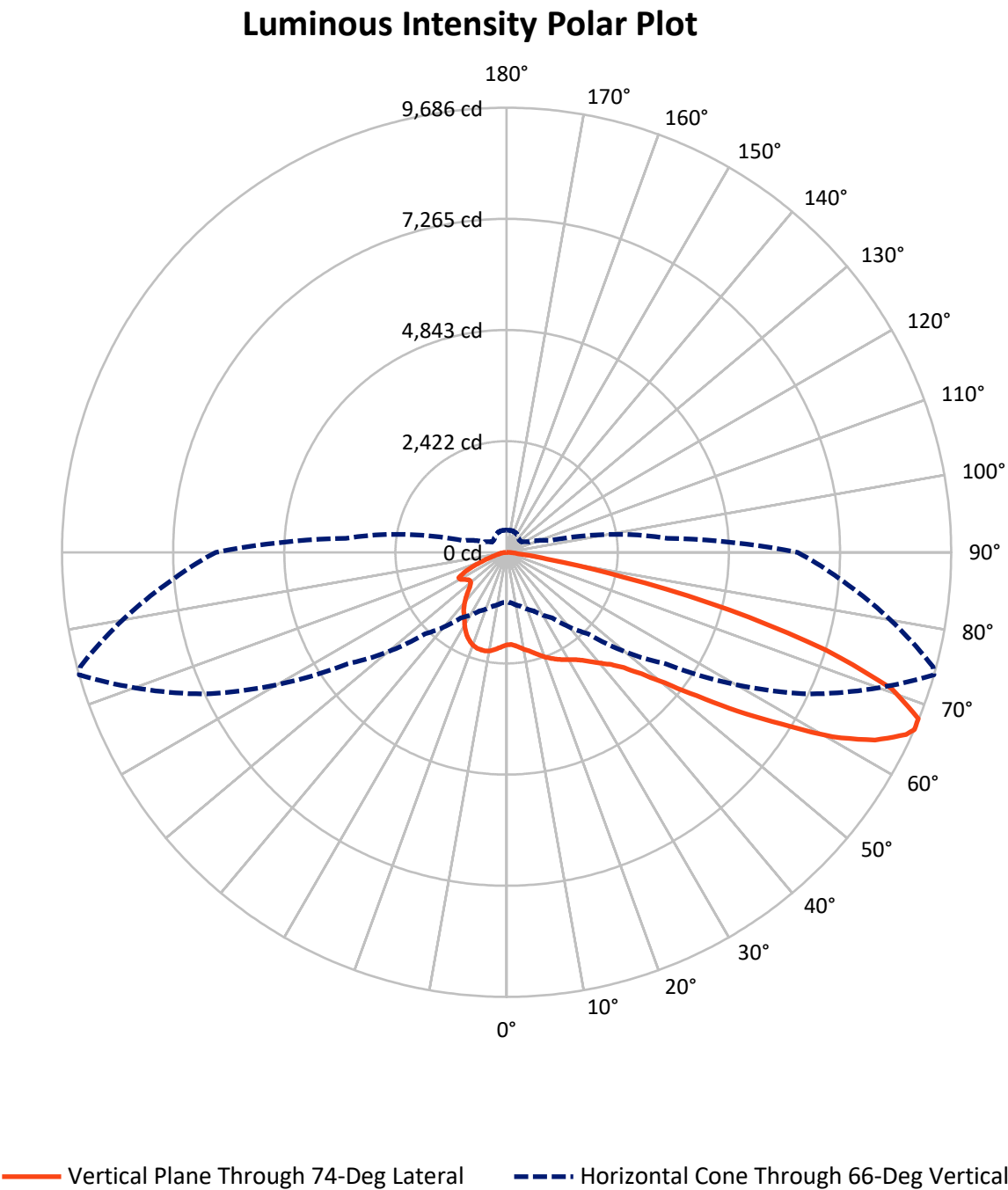
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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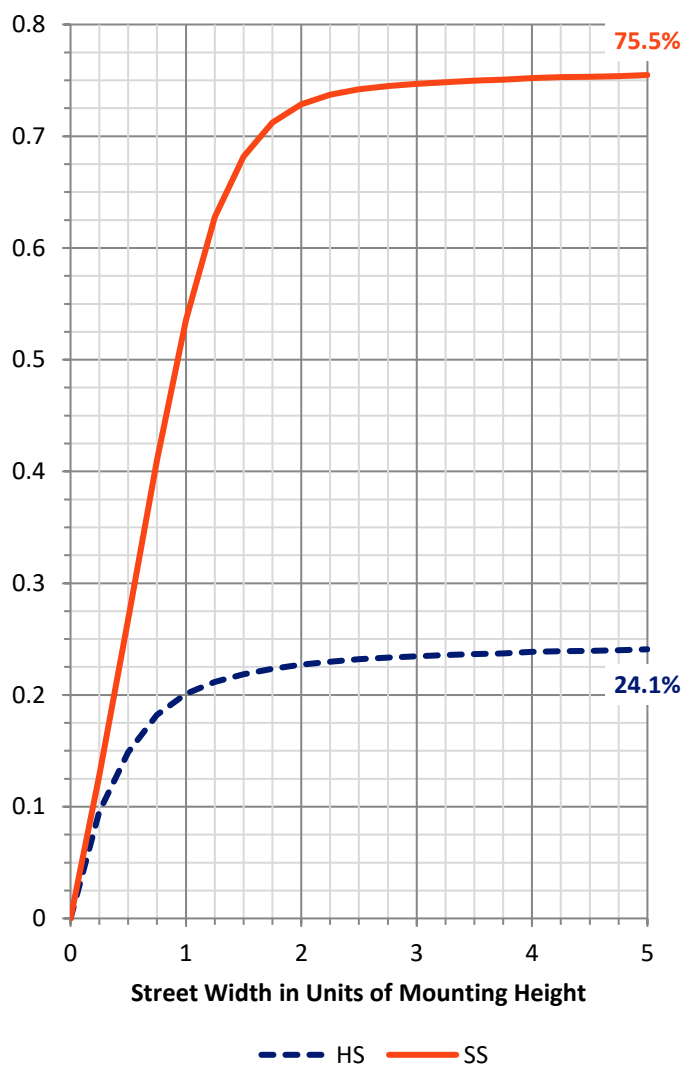
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2990.0	0.0	2990.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9288.0	0.0	9288.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	12278.0	0.0	12278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.6
10°-20°	590.4	4.8
20°-30°	1108.0	9.0
30°-40°	1704.3	13.9
40°-50°	2292.5	18.7
50°-60°	2711.1	22.1
60°-70°	2507.9	20.4
70°-80°	1055.1	8.6
80°-90°	116.8	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°	12278.0	100.0
0°-180°	12278.0	100.0

Coefficient of Utilization



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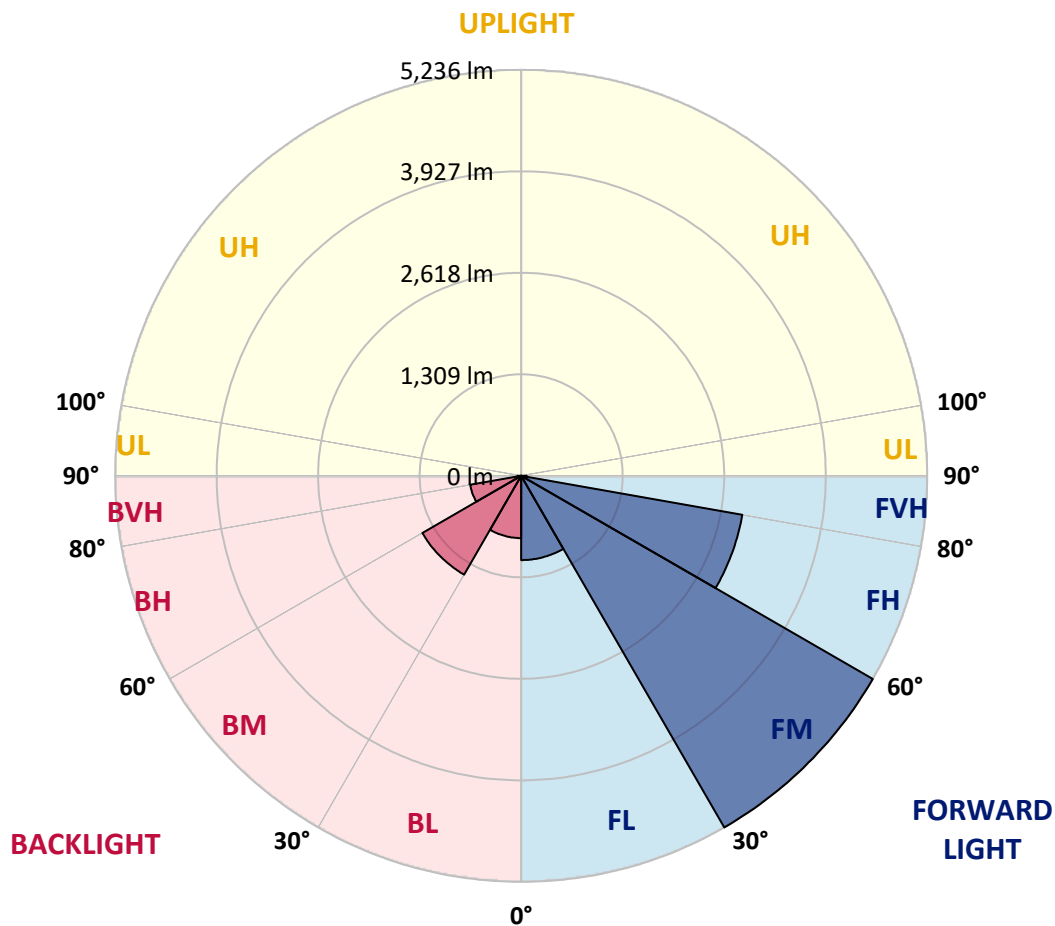
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.8	8.9			
FM	(30°-60°)	5235.9	42.6			
FH	(60°-80°)	2895.5	23.6			G2/5000
FVH	(80°-90°)	69.8	0.6			G1/100
BL	(0°-30°)	803.7	6.5	B2/1000		
BM	(30°-60°)	1472.0	12.0	B2/2500		
BH	(60°-80°)	667.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	46.9	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°	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8
2.5°	2006.5	2003.3	2009.6	2019.1	2023.8	2015.9	2012.8	2011.2	2011.2	2006.5	2014.4
5°	1911.7	1910.1	1924.3	1941.7	1974.9	1998.6	2030.2	2049.1	2042.8	2033.3	2039.6
7.5°	1788.4	1785.3	1802.6	1835.8	1881.6	1933.8	2011.2	2071.2	2094.9	2091.8	2090.2
10°	1835.8	1832.7	1831.1	1821.6	1837.4	1888.0	1968.5	2074.4	2155.0	2156.5	2158.1
12.5°	2000.1	2008.0	2000.1	1970.1	1935.4	1916.4	1963.8	2082.3	2205.5	2215.0	2254.5
15°	2224.5	2216.6	2200.8	2166.0	2112.3	2055.4	2020.7	2118.6	2278.2	2286.1	2373.0
17.5°	2422.0	2428.3	2418.8	2385.6	2322.4	2248.2	2142.3	2181.8	2355.6	2377.7	2499.4
20°	2636.8	2662.1	2649.5	2608.4	2556.3	2445.7	2313.0	2273.5	2440.9	2456.7	2630.5
22.5°	2884.9	2911.7	2888.0	2848.5	2805.9	2670.0	2499.4	2385.6	2512.0	2545.2	2756.9
25°	3181.9	3207.2	3185.0	3123.4	3069.7	2903.8	2700.0	2512.0	2581.5	2617.9	2859.6
27.5°	3417.3	3436.2	3456.8	3420.4	3338.3	3166.1	2908.6	2643.1	2651.0	2689.0	2954.4
30°	3627.4	3674.8	3692.2	3696.9	3627.4	3434.7	3121.9	2779.0	2711.1	2750.6	3049.2
32.5°	3915.0	3986.0	3957.6	3986.0	3945.0	3687.4	3343.0	2919.6	2788.5	2824.8	3139.2
35°	4335.2	4392.1	4317.8	4295.7	4229.3	3943.4	3556.3	3065.0	2891.2	2930.7	3224.5
37.5°	4787.0	4851.8	4744.4	4655.9	4529.5	4196.2	3739.6	3256.1	3033.4	3065.0	3303.5
40°	5182.0	5235.7	5142.5	5025.6	4813.9	4418.9	3897.6	3390.4	3175.6	3215.1	3395.2
42.5°	5547.0	5581.7	5477.5	5365.3	5082.5	4619.6	4068.2	3532.6	3341.5	3379.4	3469.4
45°	5916.7	5943.5	5798.2	5638.6	5306.8	4802.8	4256.2	3731.7	3584.8	3635.3	3589.5
47.5°	5983.0	5990.9	5965.6	5858.2	5483.8	4978.2	4488.5	3998.7	3956.0	4011.3	3796.5
50°	5523.3	5594.4	5750.8	5856.6	5554.9	5125.1	4720.7	4381.0	4467.9	4539.0	4226.2
52.5°	4630.6	4698.6	5060.4	5461.7	5384.2	5158.3	4970.3	4866.0	5189.9	5275.2	4810.7
55°	3689.0	3749.1	4131.4	4709.6	4832.9	5006.7	5237.3	5485.4	6111.0	6167.9	5452.2
57.5°	3038.1	3071.3	3344.6	3900.7	4098.2	4521.6	5381.1	6221.6	7047.9	7134.8	6009.9
60°	2491.5	2527.8	2731.6	3189.8	3452.0	3828.1	5267.3	6948.3	8166.4	8166.4	6725.6
62.5°	1875.3	1906.9	2096.5	2455.1	2895.9	3240.3	4904.0	7430.2	9010.1	8972.2	7243.8
65°	1287.6	1312.9	1450.3	1688.9	2085.4	2761.6	4407.9	7436.5	9569.4	9518.8	7465.0
66°	1080.6	1102.8	1219.7	1412.4	1745.8	2505.7	4232.5	7302.2	9686.3	9615.2	7371.7
67.5°	853.1	868.9	946.4	1060.1	1279.7	2028.6	3956.0	6921.5	9675.2	9632.6	7134.8
70°	609.8	620.9	677.8	701.5	756.8	1173.9	3142.4	6062.0	8899.5	8912.1	6202.6
72.5°	472.4	489.8	524.5	529.3	516.6	624.1	1906.9	5057.2	7280.1	7275.4	4603.8
75°	380.8	390.2	407.6	417.1	413.9	402.9	807.3	3772.8	5011.4	5069.8	2578.4
77.5°	300.2	298.6	314.4	327.0	336.5	316.0	369.7	2211.8	2627.3	2553.1	968.5
80°	221.2	221.2	243.3	248.0	262.3	265.4	246.5	853.1	902.1	820.0	251.2
82.5°	145.3	145.3	169.0	172.2	186.4	207.0	178.5	255.9	249.6	237.0	113.8
85°	79.0	75.8	83.7	94.8	102.7	121.7	107.4	128.0	131.1	129.6	75.8
87.5°	15.8	14.2	22.1	25.3	28.4	37.9	34.8	52.1	72.7	71.1	33.2
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°	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8	2012.8
2.5°	2025.4	2023.8	2041.2	2061.7	2085.4	2099.7	2106.0	2117.0	2109.1	2112.3	2121.8
5°	2055.4	2060.2	2085.4	2112.3	2123.4	2115.5	2098.1	2091.8	2077.5	2074.4	2071.2
7.5°	2099.7	2107.6	2132.8	2139.2	2106.0	2050.7	2011.2	1989.1	1965.4	1959.1	1955.9
10°	2172.3	2177.1	2183.4	2118.6	2036.5	1962.2	1913.2	1892.7	1876.9	1864.3	1867.4
12.5°	2264.0	2260.8	2211.8	2077.5	1960.6	1884.8	1851.6	1839.0	1827.9	1820.0	1818.4
15°	2379.3	2357.2	2216.6	2020.7	1889.5	1826.3	1802.6	1797.9	1785.3	1785.3	1783.7
17.5°	2496.2	2439.3	2213.4	1960.6	1821.6	1786.8	1772.6	1769.5	1766.3	1764.7	1769.5
20°	2613.1	2512.0	2188.1	1886.4	1774.2	1753.7	1750.5	1752.1	1748.9	1753.7	1750.5
22.5°	2715.8	2559.4	2140.7	1807.4	1741.0	1739.5	1731.6	1734.7	1745.8	1747.4	1752.1
25°	2794.8	2576.8	2071.2	1734.7	1717.3	1714.2	1723.7	1736.3	1745.8	1747.4	1755.3
27.5°	2859.6	2567.3	1984.3	1677.8	1676.3	1693.6	1722.1	1726.8	1728.4	1728.4	1722.1
30°	2908.6	2546.8	1873.7	1614.6	1622.5	1665.2	1692.1	1692.1	1679.4	1676.3	1685.7
32.5°	2919.6	2519.9	1753.7	1549.9	1562.5	1613.1	1646.2	1635.2	1621.0	1621.0	1627.3
35°	2929.1	2483.6	1657.3	1461.4	1480.4	1540.4	1572.0	1549.9	1534.1	1529.3	1527.7
37.5°	2925.9	2469.4	1570.4	1349.2	1374.5	1433.0	1453.5	1433.0	1409.3	1398.2	1412.4
40°	2929.1	2459.9	1461.4	1226.0	1251.3	1286.0	1312.9	1297.1	1275.0	1246.5	1260.7
42.5°	2948.1	2472.5	1341.3	1105.9	1105.9	1124.9	1170.7	1159.6	1105.9	1094.9	1107.5
45°	3049.2	2540.5	1221.3	985.8	968.5	981.1	1028.5	981.1	947.9	947.9	959.0
47.5°	3294.1	2666.8	1115.4	880.0	838.9	864.2	876.8	832.6	807.3	801.0	812.1
50°	3793.3	2919.6	1052.2	793.1	742.5	761.5	753.6	752.0	726.7	729.9	736.2
52.5°	4551.6	3412.5	1033.2	750.4	687.2	692.0	684.1	687.2	682.5	698.3	703.0
55°	5377.9	3932.3	1056.9	756.8	649.3	616.2	619.3	635.1	654.1	679.4	684.1
57.5°	5995.7	4193.0	1118.6	799.4	601.9	551.4	559.3	589.3	625.6	646.2	657.2
60°	6455.4	4161.4	1208.6	810.5	545.1	492.9	507.1	551.4	583.0	600.4	611.4
62.5°	6605.5	3963.9	1230.7	729.9	470.8	437.6	472.4	518.2	532.4	551.4	559.3
65°	6482.3	3684.3	1069.6	592.5	413.9	396.6	447.1	481.9	500.8	510.3	511.9
66°	6336.9	3516.8	982.7	538.7	393.4	383.9	437.6	466.1	485.0	483.4	485.0
67.5°	6017.8	3166.1	842.1	462.9	363.4	365.0	421.8	440.8	447.1	442.4	442.4
70°	4932.4	2229.2	603.5	350.7	319.1	341.3	379.2	383.9	398.1	391.8	391.8
72.5°	3041.3	1094.9	404.5	268.6	284.4	319.1	317.6	333.4	366.5	376.0	382.3
75°	1494.6	443.9	267.0	227.5	254.4	267.0	263.8	303.3	350.7	391.8	406.0
77.5°	567.2	221.2	186.4	199.1	205.4	200.6	210.1	274.9	350.7	425.0	439.2
80°	175.4	153.2	146.9	164.3	154.8	146.9	158.0	227.5	297.0	322.3	322.3
82.5°	105.9	120.1	113.8	112.2	104.3	105.9	113.8	162.7	229.1	240.1	240.1
85°	74.3	79.0	64.8	61.6	60.0	58.5	58.5	94.8	135.9	134.3	139.0
87.5°	28.4	31.6	23.7	23.7	22.1	15.8	12.6	15.8	15.8	11.1	7.9
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)