

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: P1210395

Luminaire Tested: **ARCH3-110-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210395
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: ARCH3-110-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15903 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

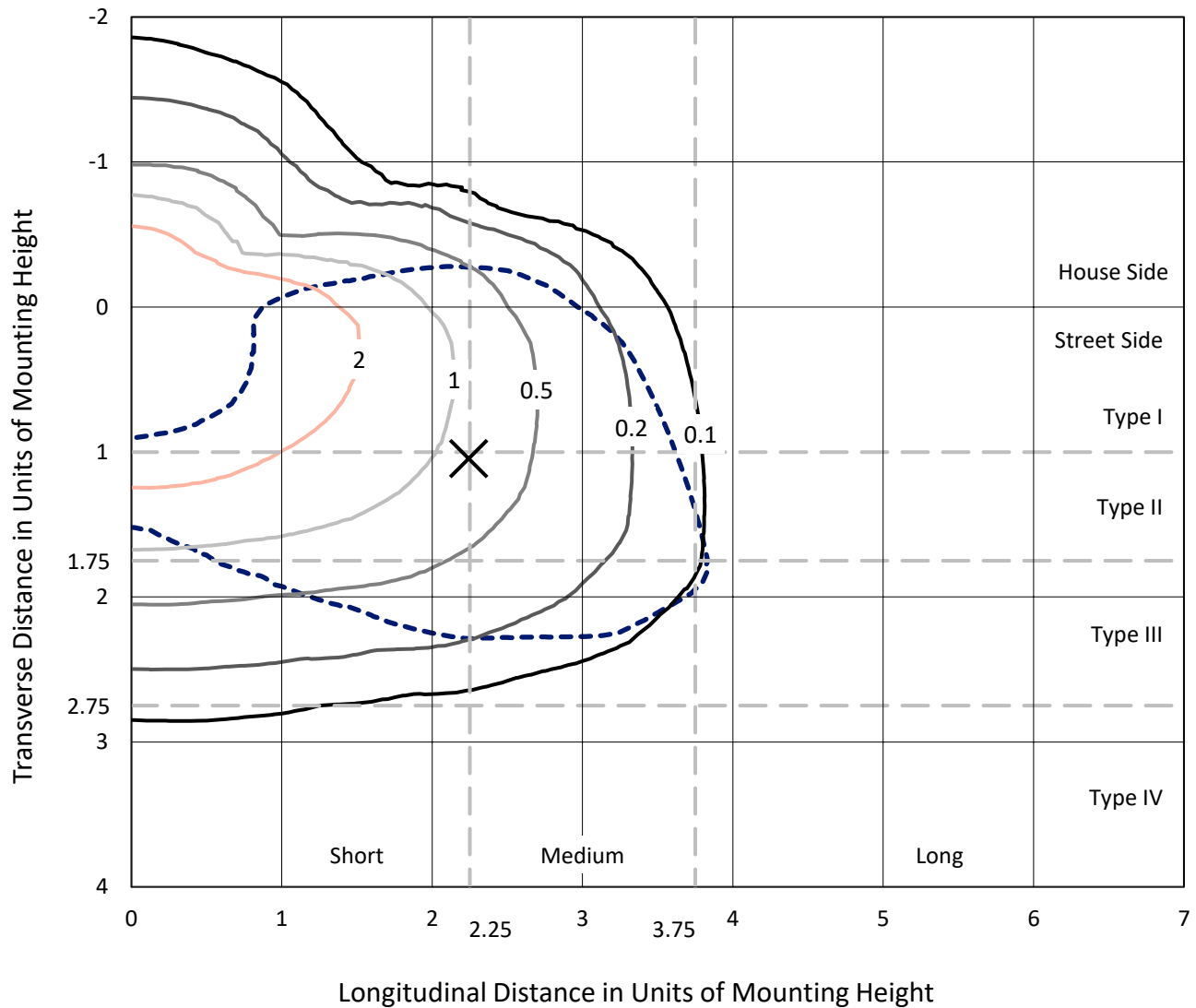
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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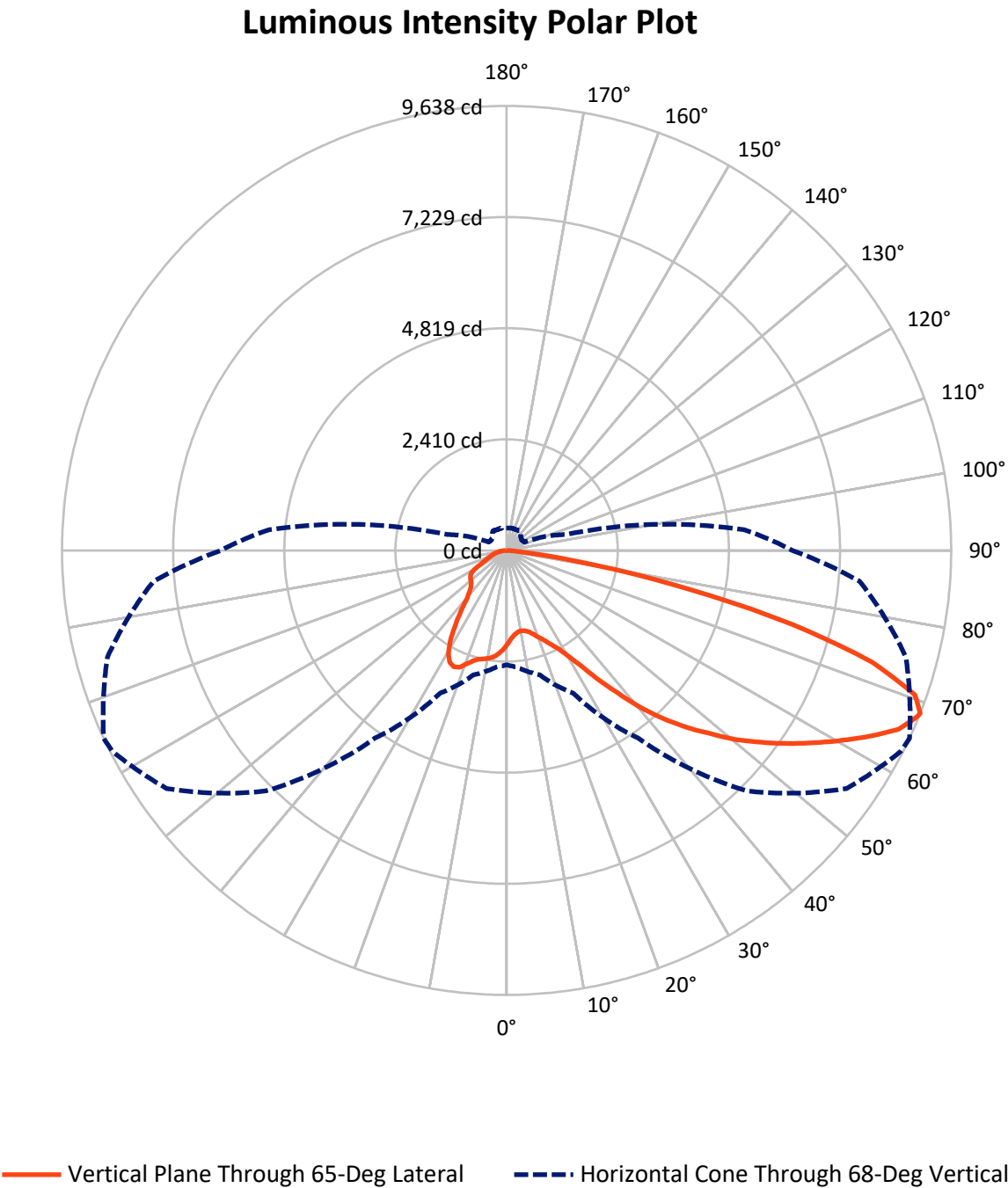
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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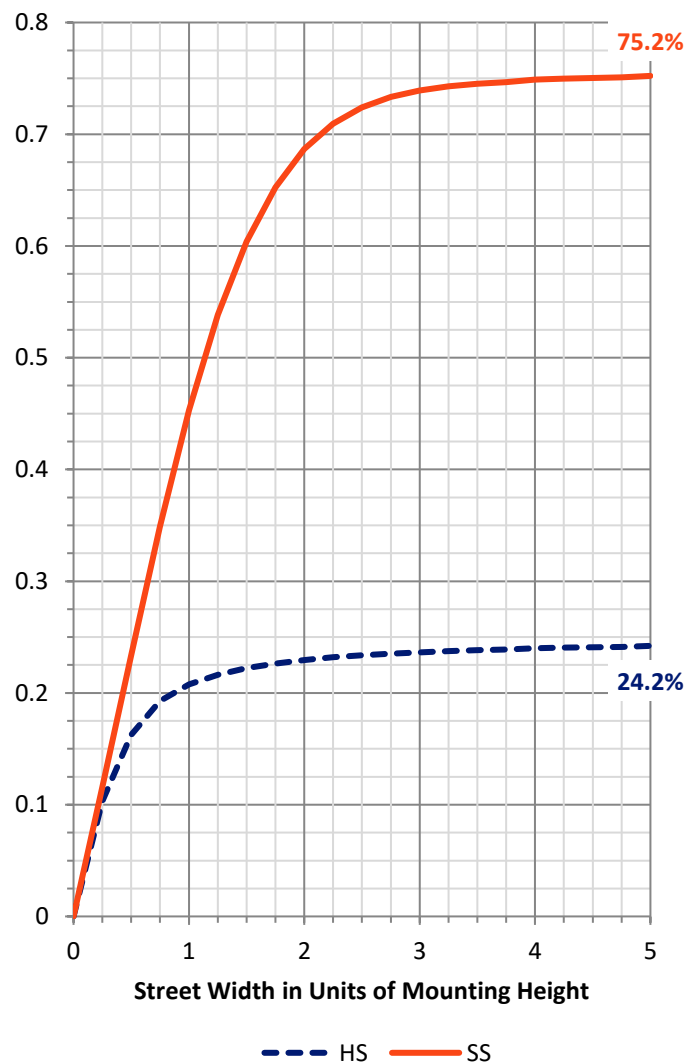
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3899.0	0.0	3899.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12004.1	0.0	12004.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	15903.0	0.0	15903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	1.2
10°-20°	632.4	4.0
20°-30°	1144.5	7.2
30°-40°	1800.5	11.3
40°-50°	2681.6	16.9
50°-60°	3517.8	22.1
60°-70°	3846.9	24.2
70°-80°	1903.5	12.0
80°-90°	181.6	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°	15903.0	100.0
0°-180°	15903.0	100.0

Coefficient of Utilization



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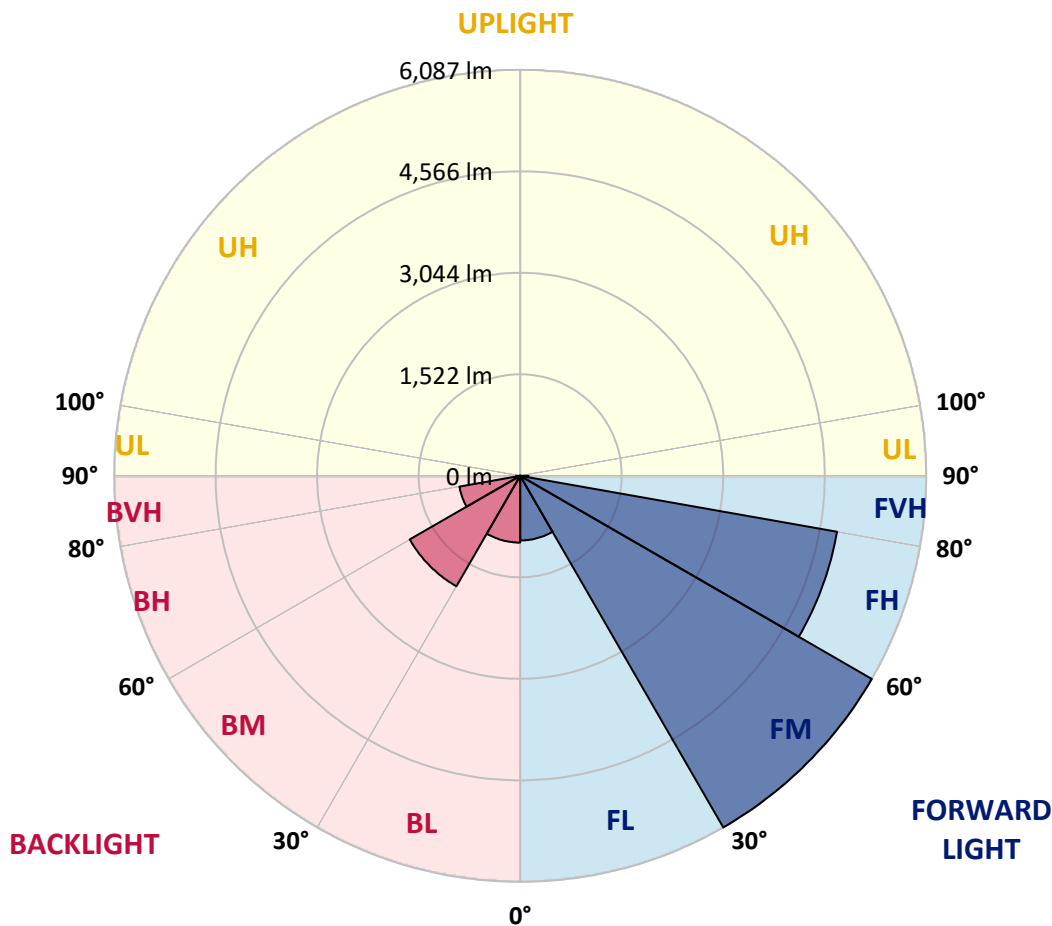
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.5	6.1			
FM	(30°-60°)	6087.4	38.3			
FH	(60°-80°)	4825.0	30.3			G2/5000
FVH	(80°-90°)	122.1	0.8			G2/225
BL	(0°-30°)	1001.7	6.3	B3/2500		
BM	(30°-60°)	1912.4	12.0	B2/2500		
BH	(60°-80°)	925.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2
2.5°	1773.8	1769.7	1780.0	1790.2	1812.8	1839.4	1876.4	1907.1	1911.2	1968.6	2013.8
5°	1669.2	1663.1	1673.3	1685.6	1695.9	1728.7	1767.7	1812.8	1831.2	1915.3	2011.7
7.5°	1679.5	1677.4	1681.5	1677.4	1677.4	1691.8	1718.5	1763.6	1784.1	1884.6	2022.0
10°	1739.0	1743.1	1745.1	1732.8	1720.5	1714.4	1722.6	1753.3	1767.7	1886.6	2067.1
12.5°	1837.4	1843.5	1845.6	1823.0	1806.6	1780.0	1765.6	1777.9	1788.2	1907.1	2130.6
15°	1970.7	1974.8	1960.4	1946.1	1905.1	1872.3	1837.4	1827.1	1831.2	1950.2	2202.4
17.5°	2126.5	2120.4	2120.4	2085.5	2032.2	1980.9	1923.5	1915.3	1915.3	2019.9	2304.9
20°	2296.7	2302.9	2284.4	2237.3	2184.0	2104.0	2046.6	2009.7	2013.8	2099.9	2430.0
22.5°	2542.8	2553.1	2503.9	2436.2	2354.2	2261.9	2179.9	2120.4	2122.4	2204.5	2559.2
25°	2807.4	2811.5	2780.7	2690.5	2579.7	2448.5	2339.8	2263.9	2261.9	2321.4	2725.3
27.5°	3078.0	3096.5	3035.0	2948.9	2846.3	2682.3	2538.7	2436.2	2419.8	2499.8	2932.5
30°	3356.9	3379.5	3320.0	3236.0	3108.8	2969.4	2799.2	2680.2	2670.0	2776.6	3209.3
32.5°	3637.9	3644.0	3596.9	3527.1	3412.3	3281.1	3143.7	3012.4	3002.2	3176.5	3568.2
35°	3867.6	3886.0	3853.2	3836.8	3752.7	3631.7	3498.4	3422.6	3449.2	3672.7	4033.7
37.5°	4144.4	4162.9	4125.9	4121.8	4095.2	3990.6	3898.3	3904.5	3931.1	4234.6	4523.8
40°	4544.3	4564.8	4470.5	4429.4	4429.4	4326.9	4296.1	4441.7	4476.6	4788.3	5034.4
42.5°	4882.6	4915.4	4860.1	4833.4	4753.4	4681.7	4718.6	4923.6	4983.1	5317.4	5479.4
45°	5046.7	5071.3	5136.9	5214.8	5136.9	5011.8	5151.3	5383.0	5467.1	5805.4	5924.4
47.5°	5134.9	5157.4	5233.3	5442.5	5495.8	5391.2	5588.1	5877.2	5934.6	6289.4	6348.9
50°	5147.2	5218.9	5317.4	5526.5	5770.6	5784.9	6026.9	6379.6	6447.3	6765.1	6722.1
52.5°	5046.7	5075.4	5278.4	5631.1	5901.8	6147.9	6504.7	6861.5	6910.7	7212.2	7052.2
55°	4882.6	4923.6	5126.7	5606.5	6029.0	6492.4	6990.7	7335.2	7390.6	7646.9	7357.8
57.5°	4735.0	4755.5	4972.9	5534.7	6156.1	6836.9	7423.4	7829.4	7866.4	8028.4	7583.4
60°	4570.9	4593.5	4810.9	5380.9	6250.4	7097.4	7874.6	8327.8	8360.6	8430.3	7845.8
62.5°	4146.4	4205.9	4478.7	5126.7	6225.8	7394.7	8356.5	8819.9	8860.9	8785.1	8053.0
65°	3367.2	3451.3	3785.5	4550.4	5996.1	7587.5	8750.2	9273.1	9342.8	9051.6	8108.3
67.5°	2614.6	2674.1	2942.7	3611.2	5190.2	7491.1	9004.5	9584.8	9605.3	9008.6	7800.7
68°	2479.3	2538.7	2795.1	3414.4	4966.7	7376.2	8998.3	9593.0	9638.1	8961.4	7681.8
70°	1896.9	1964.5	2208.6	2704.8	4002.9	6646.2	8623.1	9396.2	9390.0	8391.3	6943.6
72.5°	1185.3	1224.2	1392.4	1706.2	2647.4	5056.9	7318.8	8286.7	8303.1	6841.0	5325.6
75°	752.6	752.6	744.4	826.4	1357.5	2881.2	5440.4	6379.6	6391.9	4790.4	3356.9
77.5°	654.2	635.7	547.5	463.5	541.4	1119.7	3219.5	4119.8	4052.1	2579.7	1593.4
80°	551.6	520.9	449.1	373.2	348.6	350.7	1236.6	2091.7	2001.5	929.0	529.1
82.5°	397.8	371.2	338.4	293.2	268.6	209.2	258.4	604.9	590.6	268.6	172.3
85°	215.3	194.8	190.7	192.8	162.0	129.2	108.7	133.3	133.3	116.9	98.4
87.5°	75.9	55.4	65.6	73.8	63.6	53.3	43.1	51.3	53.3	51.3	47.2
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°	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2	2032.2
2.5°	2040.4	2060.9	2110.1	2153.2	2184.0	2210.6	2225.0	2231.1	2245.5	2247.5	2243.4
5°	2056.8	2110.1	2184.0	2247.5	2282.4	2296.7	2300.8	2302.9	2296.7	2300.8	2296.7
7.5°	2099.9	2167.6	2272.1	2327.5	2333.7	2311.1	2313.2	2304.9	2313.2	2321.4	2321.4
10°	2165.5	2251.6	2350.1	2370.6	2343.9	2331.6	2356.2	2405.4	2421.8	2444.4	2444.4
12.5°	2251.6	2354.2	2423.9	2405.4	2380.8	2421.8	2493.6	2542.8	2559.2	2567.4	2561.3
15°	2350.1	2460.8	2495.7	2434.1	2479.3	2567.4	2592.0	2563.3	2522.3	2503.9	2514.1
17.5°	2475.2	2567.4	2546.9	2505.9	2608.4	2620.8	2540.8	2448.5	2382.9	2358.3	2374.7
20°	2606.4	2686.4	2592.0	2610.5	2674.1	2542.8	2391.1	2272.1	2214.7	2204.5	2220.9
22.5°	2745.8	2797.1	2637.2	2731.5	2637.2	2370.6	2188.1	2126.5	2112.2	2128.6	2142.9
25°	2903.7	2897.6	2715.1	2768.4	2499.8	2159.4	2050.7	2046.6	2046.6	2056.8	2077.3
27.5°	3082.2	2985.8	2793.0	2719.2	2261.9	1985.0	1964.5	1966.6	1960.4	1962.5	1972.7
30°	3289.3	3104.7	2879.1	2557.2	1995.3	1853.8	1845.6	1839.4	1825.1	1821.0	1825.1
32.5°	3549.7	3229.8	2967.3	2290.6	1761.5	1718.5	1714.4	1681.5	1646.7	1642.6	1656.9
35°	3879.9	3457.4	3012.4	1956.3	1568.8	1566.7	1552.4	1501.1	1456.0	1456.0	1445.7
37.5°	4257.2	3750.7	3030.9	1630.3	1408.8	1419.1	1378.0	1312.4	1277.6	1257.1	1263.2
40°	4642.7	4084.9	3028.8	1345.2	1269.4	1271.4	1240.7	1160.7	1074.5	1023.3	1035.6
42.5°	5013.9	4388.4	2975.5	1193.5	1156.6	1150.4	1125.8	1017.1	945.4	904.3	906.4
45°	5311.2	4702.2	2893.5	1103.3	1054.0	1064.3	1008.9	943.3	877.7	840.8	838.7
47.5°	5608.6	4940.1	2762.2	1047.9	978.2	959.7	937.2	892.0	842.8	801.8	803.9
50°	5879.3	5143.1	2639.2	1011.0	908.4	861.3	865.4	838.7	795.7	758.7	756.7
52.5°	6070.0	5276.4	2571.5	990.5	824.4	773.1	787.5	773.1	732.1	705.4	703.4
55°	6260.7	5378.9	2594.1	963.8	732.1	691.1	715.7	711.6	689.0	680.8	682.9
57.5°	6414.5	5456.8	2674.1	914.6	643.9	619.3	660.3	648.0	631.6	633.7	633.7
60°	6564.2	5557.3	2768.4	801.8	568.0	570.1	609.0	586.5	576.2	594.7	596.7
62.5°	6720.0	5666.0	2690.5	637.8	502.4	516.8	561.9	543.4	547.5	574.2	582.4
65°	6701.6	5655.7	2192.2	522.9	445.0	473.7	541.4	535.2	537.3	547.5	551.6
67.5°	6324.3	5294.8	1507.2	445.0	404.0	438.8	525.0	500.4	502.4	496.3	498.3
68°	6197.1	5167.7	1328.8	432.7	395.8	430.6	516.8	494.2	496.3	490.1	488.1
70°	5504.0	4425.3	840.8	381.4	367.1	408.1	475.8	467.6	465.5	461.4	461.4
72.5°	4195.7	3266.7	442.9	330.2	334.3	373.2	424.5	440.9	430.6	432.7	445.0
75°	2778.7	1964.5	307.6	283.0	293.2	319.9	377.3	410.1	399.9	406.0	399.9
77.5°	1470.3	1058.1	246.1	239.9	239.9	258.4	311.7	363.0	363.0	358.9	352.7
80°	481.9	373.2	196.9	188.7	192.8	203.0	250.2	297.3	303.5	295.3	291.2
82.5°	162.0	172.3	147.6	137.4	141.5	149.7	188.7	227.6	229.7	213.3	209.2
85°	100.5	114.8	92.3	90.2	90.2	92.3	114.8	125.1	114.8	102.5	106.6
87.5°	47.2	57.4	43.1	36.9	30.8	26.7	20.5	8.2	8.2	4.1	4.1
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)