

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: P799369

Luminaire Tested: **ARCH2-110-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12184 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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

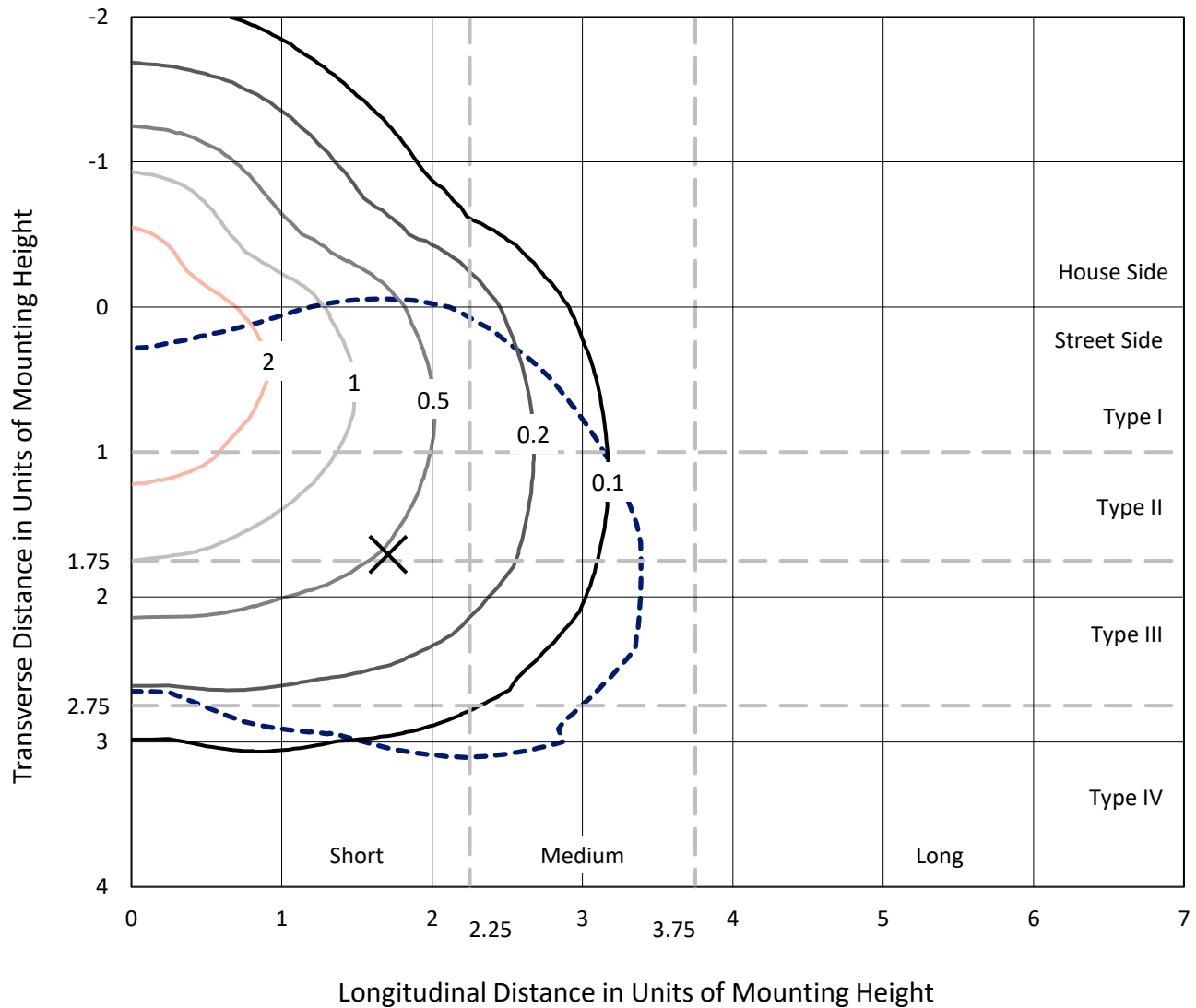


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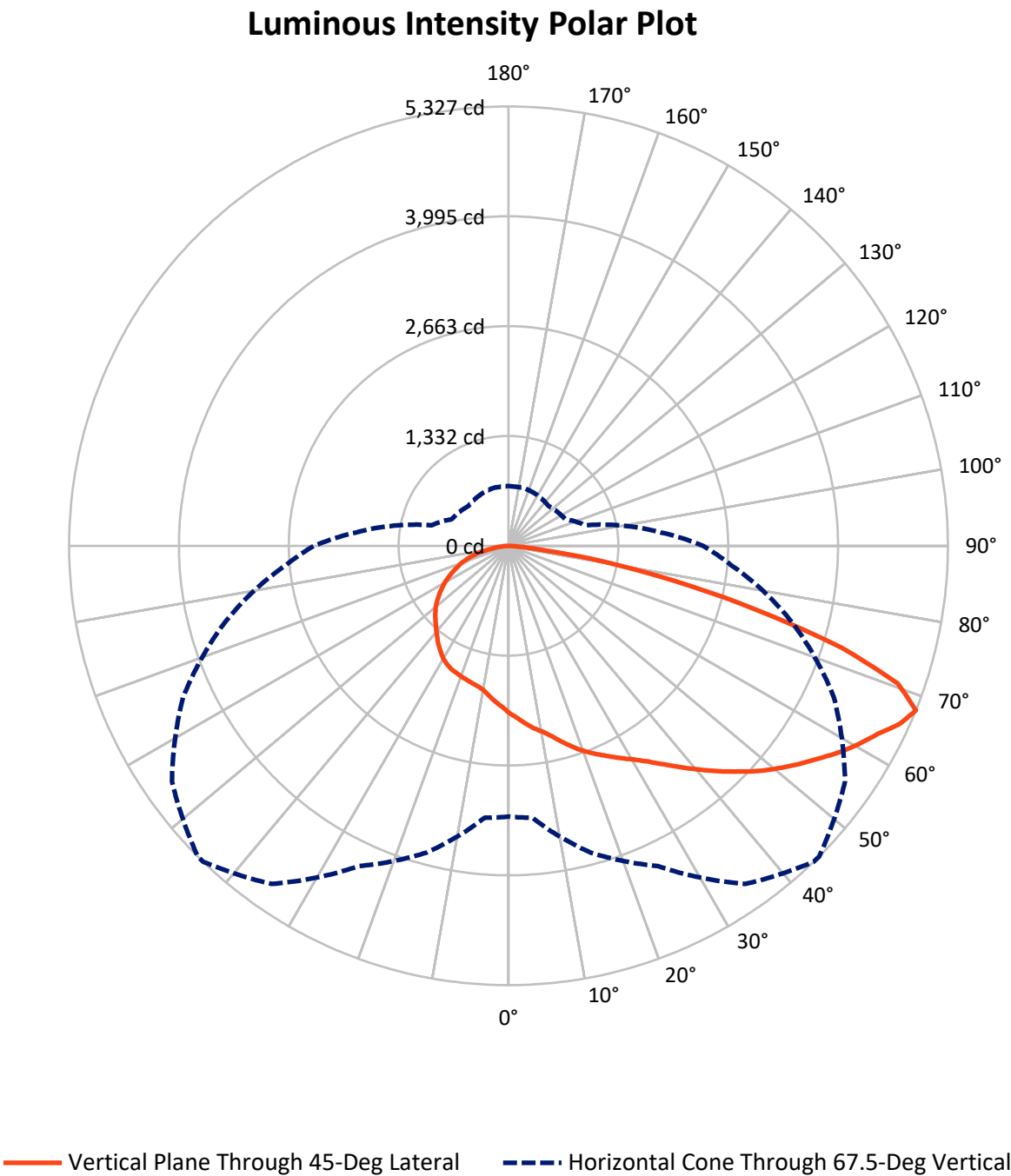
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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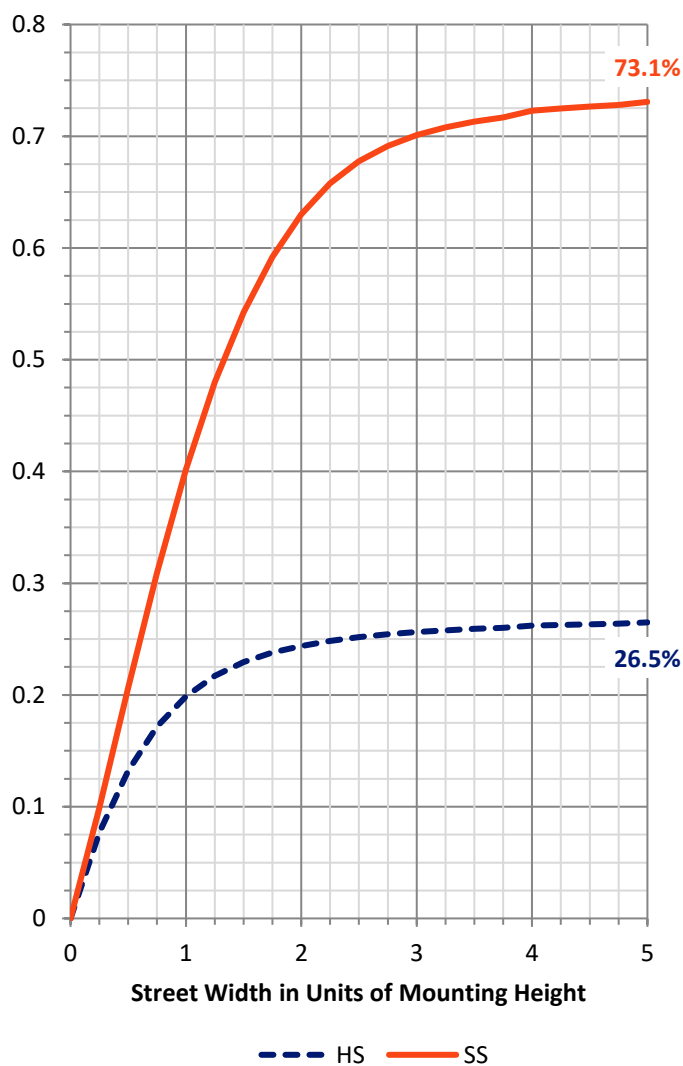
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3255.0	0.0	3255.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8929.0	0.0	8929.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	12184.0	0.0	12184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.6
10°-20°	601.0	4.9
20°-30°	1037.4	8.5
30°-40°	1529.8	12.6
40°-50°	2072.6	17.0
50°-60°	2533.2	20.8
60°-70°	2612.7	21.4
70°-80°	1431.1	11.7
80°-90°	171.5	1.4
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°	12184.0	100.0
0°-180°	12184.0	100.0

Coefficient of Utilization



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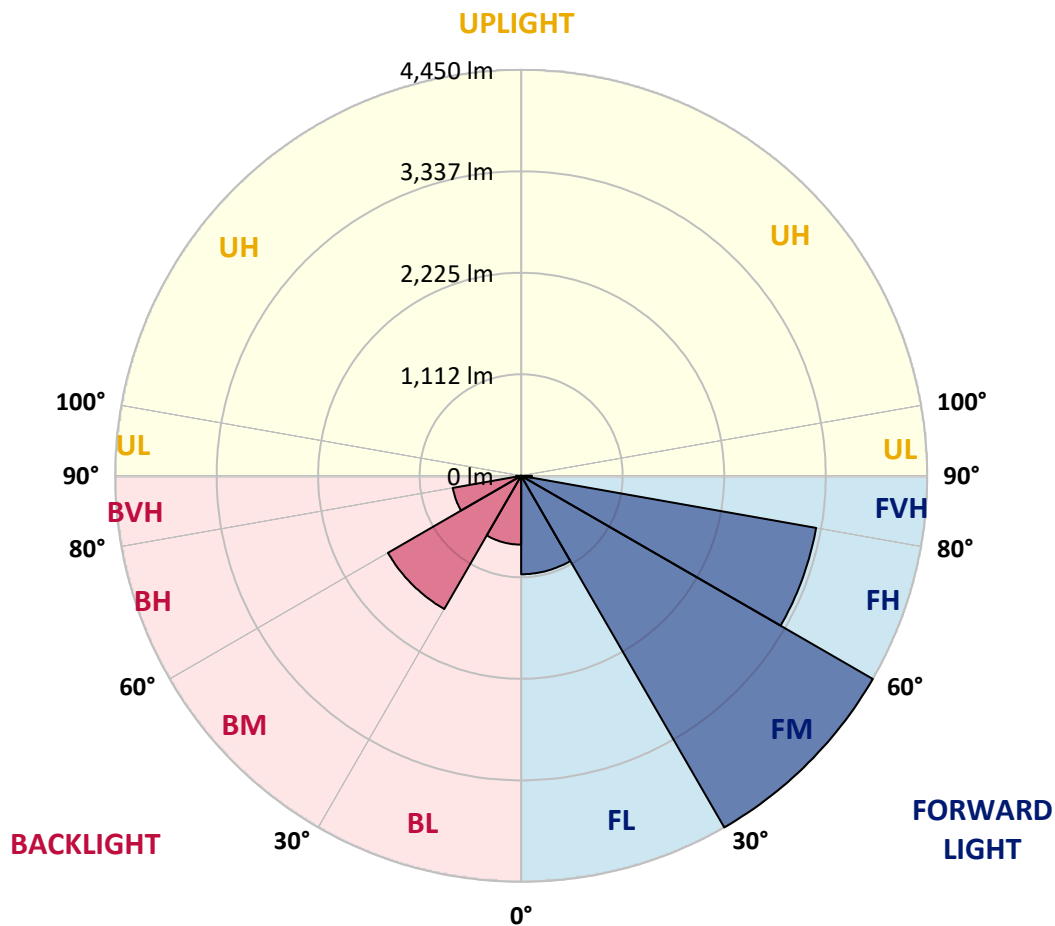
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1078.6	8.9			
FM	(30°-60°)	4449.7	36.5			
FH	(60°-80°)	3282.5	26.9			G2/5000
FVH	(80°-90°)	118.2	1.0			G2/225
BL	(0°-30°)	754.4	6.2	B2/1000		
BM	(30°-60°)	1686.0	13.8	B2/2500		
BH	(60°-80°)	761.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	53.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	2121.1	2119.2	2122.9	2109.9	2093.2	2091.4	2091.4	2080.3	2067.3	2041.3	2020.9
5°	2221.2	2217.5	2219.3	2200.8	2178.5	2167.4	2165.6	2141.5	2111.8	2071.0	2033.9
7.5°	2313.9	2310.2	2308.3	2287.9	2254.5	2236.0	2234.2	2198.9	2163.7	2100.7	2046.9
10°	2401.0	2397.3	2393.6	2365.8	2325.0	2297.2	2293.5	2249.0	2204.5	2126.6	2058.0
12.5°	2512.3	2504.8	2501.1	2467.8	2408.4	2378.8	2373.2	2313.9	2258.3	2163.7	2080.3
15°	2629.1	2623.5	2617.9	2586.4	2519.7	2480.7	2471.5	2397.3	2321.3	2211.9	2113.6
17.5°	2716.2	2710.6	2710.6	2682.8	2621.7	2577.2	2569.7	2480.7	2386.2	2256.4	2139.6
20°	2770.0	2764.4	2770.0	2753.3	2706.9	2669.9	2662.4	2564.2	2451.1	2297.2	2161.8
22.5°	2808.9	2803.4	2812.6	2805.2	2771.8	2749.6	2744.0	2647.6	2517.8	2339.8	2184.1
25°	2877.5	2877.5	2877.5	2864.5	2833.0	2825.6	2825.6	2742.2	2603.1	2395.5	2217.5
27.5°	3014.7	3007.3	2998.0	2960.9	2907.2	2905.3	2916.5	2838.6	2701.4	2467.8	2258.3
30°	3216.8	3213.1	3177.9	3100.0	3009.2	2999.9	3007.3	2942.4	2807.1	2543.8	2304.6
32.5°	3478.2	3465.3	3392.9	3276.1	3146.4	3103.7	3118.5	3049.9	2918.3	2621.7	2349.1
35°	3663.6	3667.3	3615.4	3509.8	3355.9	3242.8	3253.9	3170.5	3038.8	2708.8	2404.7
37.5°	3876.9	3889.8	3812.0	3732.2	3589.5	3396.7	3407.8	3294.7	3159.3	2818.2	2464.1
40°	4171.7	4145.7	4014.1	3919.5	3761.9	3558.0	3567.2	3433.7	3298.4	2922.0	2532.7
42.5°	4418.2	4371.9	4212.4	4091.9	3902.8	3728.5	3737.8	3583.9	3439.3	3037.0	2608.7
45°	4772.4	4644.4	4414.5	4355.2	4047.4	3895.4	3904.7	3743.4	3587.6	3159.3	2690.3
47.5°	4978.2	4774.2	4627.8	4596.2	4206.9	4067.8	4079.0	3912.1	3747.1	3298.4	2775.5
50°	4965.2	4833.6	4790.9	4713.0	4347.8	4229.1	4240.3	4086.4	3908.4	3435.6	2857.1
52.5°	4879.9	4904.0	4881.8	4752.0	4488.7	4384.9	4397.9	4258.8	4073.4	3563.5	2933.1
55°	5011.5	5028.2	4985.6	4815.0	4644.4	4540.6	4555.4	4440.5	4236.5	3676.6	2998.0
57.5°	5169.1	5109.8	5067.2	4926.3	4805.7	4709.3	4726.0	4625.9	4377.5	3767.5	3048.1
60°	5161.7	5037.5	5080.2	4933.7	4915.1	4865.1	4879.9	4777.9	4485.0	3834.2	3068.5
62.5°	4781.6	4714.9	4930.0	4879.9	5004.1	5004.1	5022.7	4870.6	4549.9	3862.0	3057.4
65°	4121.6	4125.3	4503.5	4711.2	5109.8	5195.1	5209.9	4928.1	4512.8	3780.4	2953.5
67.5°	3283.6	3307.7	3850.9	4282.9	5004.1	5324.9	5326.7	4980.0	4353.4	3550.5	2712.5
70°	2402.9	2421.4	3062.9	3587.6	4505.4	5037.5	5007.8	4833.6	4006.6	3150.1	2336.1
72.5°	1624.2	1640.9	2300.9	2755.1	3697.0	4290.3	4225.4	4271.8	3415.2	2588.3	1878.2
75°	1092.0	1112.4	1637.1	1970.9	2719.9	3257.6	3113.0	3235.4	2642.0	1959.8	1370.2
77.5°	687.9	700.8	1040.1	1292.3	1857.8	2217.5	2072.8	2074.7	1522.2	1055.0	736.1
80°	437.6	441.3	630.4	745.3	1075.4	1333.1	1179.2	958.6	686.0	559.9	439.4
82.5°	254.0	248.4	376.4	420.9	511.7	506.2	419.0	396.8	300.4	280.0	224.3
85°	102.0	94.6	165.0	153.9	155.7	165.0	122.4	122.4	98.3	76.0	55.6
87.5°	20.4	20.4	22.2	20.4	20.4	22.2	16.7	16.7	14.8	14.8	14.8
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°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	2017.2	2013.5	2004.2	1980.1	1967.2	1959.8	1948.6	1944.9	1943.1	1944.9	1950.5
5°	2022.8	2009.8	1983.9	1944.9	1919.0	1902.3	1883.7	1876.3	1870.8	1870.8	1876.3
7.5°	2026.5	2006.1	1961.6	1904.1	1867.0	1841.1	1818.8	1809.6	1807.7	1813.3	1815.1
10°	2028.4	1998.7	1935.6	1863.3	1815.1	1781.8	1759.5	1753.9	1759.5	1770.6	1772.5
12.5°	2041.3	2000.5	1920.8	1835.5	1778.1	1744.7	1728.0	1728.0	1742.8	1763.2	1765.1
15°	2063.6	2013.5	1913.4	1813.3	1753.9	1724.3	1718.7	1728.0	1750.2	1781.8	1785.5
17.5°	2080.3	2020.9	1896.7	1783.6	1722.4	1703.9	1713.2	1735.4	1766.9	1809.6	1813.3
20°	2091.4	2020.9	1872.6	1748.4	1690.9	1687.2	1713.2	1748.4	1781.8	1831.8	1837.4
22.5°	2102.5	2017.2	1844.8	1705.7	1655.7	1666.8	1715.0	1759.5	1792.9	1846.7	1855.9
25°	2122.9	2022.8	1817.0	1663.1	1618.6	1650.1	1713.2	1766.9	1802.2	1857.8	1872.6
27.5°	2150.7	2035.8	1796.6	1624.2	1581.5	1624.2	1700.2	1765.1	1802.2	1855.9	1872.6
30°	2180.4	2050.6	1772.5	1581.5	1538.9	1587.1	1672.4	1744.7	1787.3	1837.4	1857.8
32.5°	2211.9	2067.3	1752.1	1535.2	1487.0	1537.0	1631.6	1713.2	1759.5	1805.9	1828.1
35°	2254.5	2097.0	1741.0	1498.1	1440.6	1485.1	1579.7	1672.4	1722.4	1765.1	1791.0
37.5°	2306.5	2134.0	1735.4	1461.0	1390.6	1427.6	1524.0	1622.3	1676.1	1711.3	1735.4
40°	2365.8	2180.4	1733.6	1425.8	1340.5	1368.3	1466.6	1564.8	1616.7	1644.6	1665.0
42.5°	2432.5	2232.3	1729.8	1390.6	1290.4	1312.7	1410.9	1507.4	1551.9	1576.0	1594.5
45°	2503.0	2284.2	1722.4	1347.9	1236.7	1262.6	1353.5	1438.8	1485.1	1505.5	1525.9
47.5°	2573.4	2336.1	1707.6	1299.7	1188.5	1212.6	1292.3	1366.4	1403.5	1422.1	1442.5
50°	2642.0	2382.5	1672.4	1244.1	1138.4	1160.6	1221.8	1271.9	1299.7	1314.5	1334.9
52.5°	2703.2	2414.0	1622.3	1179.2	1088.3	1099.5	1140.3	1182.9	1205.1	1207.0	1225.5
55°	2755.1	2430.7	1550.0	1112.4	1034.6	1036.4	1058.7	1092.0	1101.3	1093.9	1106.9
57.5°	2784.8	2421.4	1470.3	1043.8	978.9	971.5	988.2	1004.9	1006.8	988.2	1001.2
60°	2792.2	2378.8	1366.4	975.2	923.3	902.9	908.5	904.8	901.1	893.7	904.8
62.5°	2755.1	2287.9	1251.5	908.5	864.0	832.5	830.6	828.8	834.3	836.2	838.0
65°	2619.8	2117.3	1114.3	839.9	801.0	758.3	756.5	778.7	786.1	775.0	778.7
67.5°	2358.4	1855.9	964.1	760.2	721.2	684.2	699.0	712.0	724.9	721.2	724.9
70°	1987.6	1524.0	826.9	671.2	634.1	613.7	630.4	641.5	643.4	639.7	643.4
72.5°	1563.0	1190.3	699.0	580.3	547.0	537.7	558.1	567.3	584.0	591.4	593.3
75°	1129.1	878.8	572.9	482.1	454.2	454.2	472.8	489.5	504.3	495.0	489.5
77.5°	630.4	524.7	411.6	331.9	337.4	363.4	370.8	389.4	404.2	402.3	398.6
80°	381.9	328.2	278.1	215.1	213.2	233.6	281.8	313.3	320.8	304.1	302.2
82.5°	198.4	172.4	148.3	120.5	133.5	155.7	163.2	196.5	216.9	209.5	218.8
85°	50.1	48.2	53.8	55.6	68.6	76.0	83.4	98.3	64.9	31.5	31.5
87.5°	14.8	14.8	18.5	18.5	24.1	29.7	27.8	27.8	14.8	1.9	0.0
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)