

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: P1210777

Luminaire Tested: **ARCH3-70-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210777
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: ARCH3-70-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11107 lumens
Efficiency: N/A
Efficacy: 151.9 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): 73.1
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

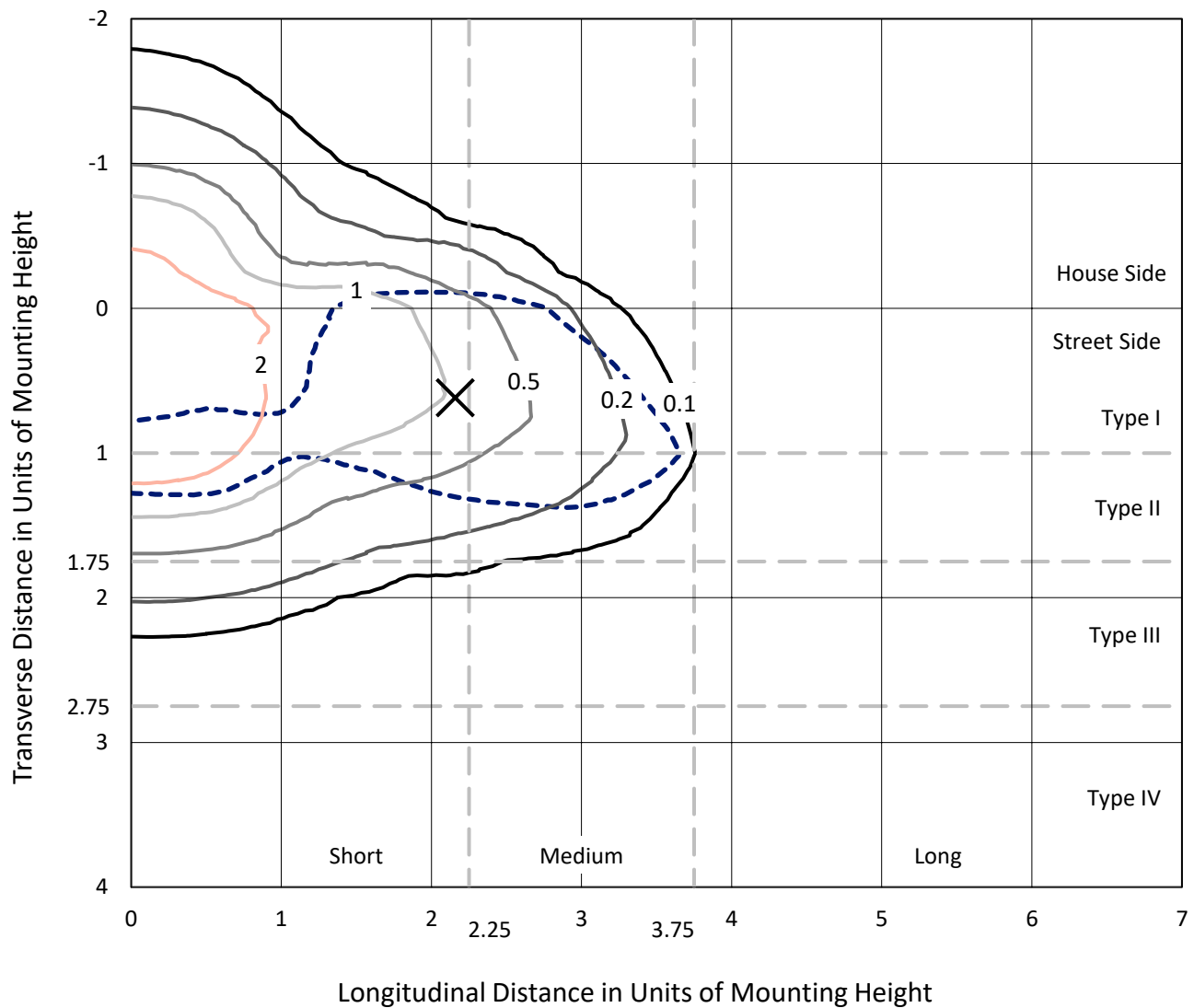


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

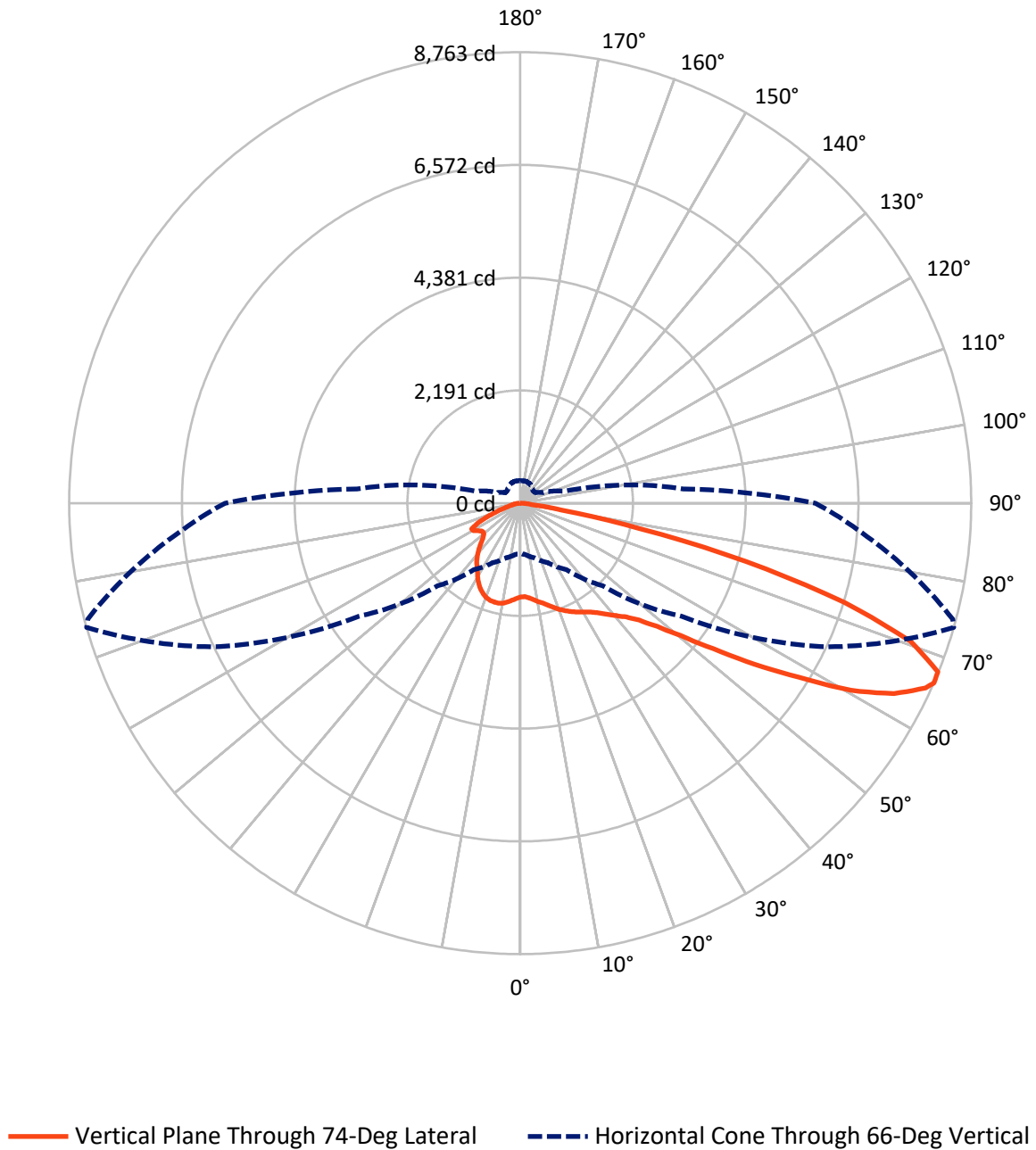


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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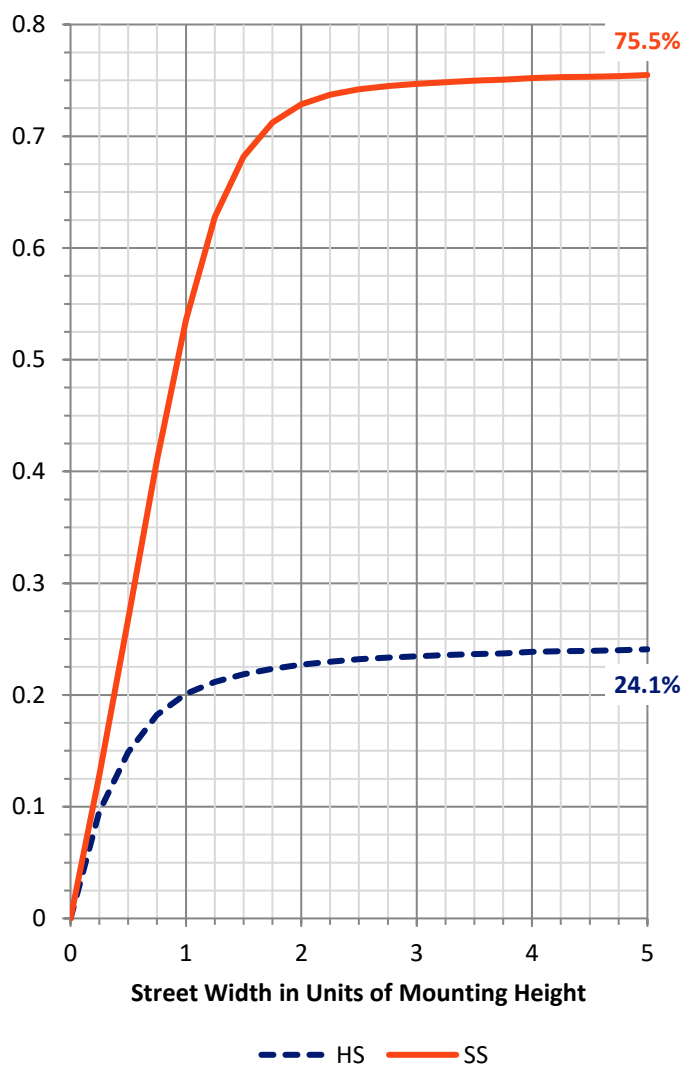
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2704.9	0.0	2704.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8402.1	0.0	8402.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	11107.0	0.0	11107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	1.6
10°-20°	534.1	4.8
20°-30°	1002.3	9.0
30°-40°	1541.8	13.9
40°-50°	2073.8	18.7
50°-60°	2452.5	22.1
60°-70°	2268.7	20.4
70°-80°	954.4	8.6
80°-90°	105.6	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°	11107.0	100.0
0°-180°	11107.0	100.0

Coefficient of Utilization



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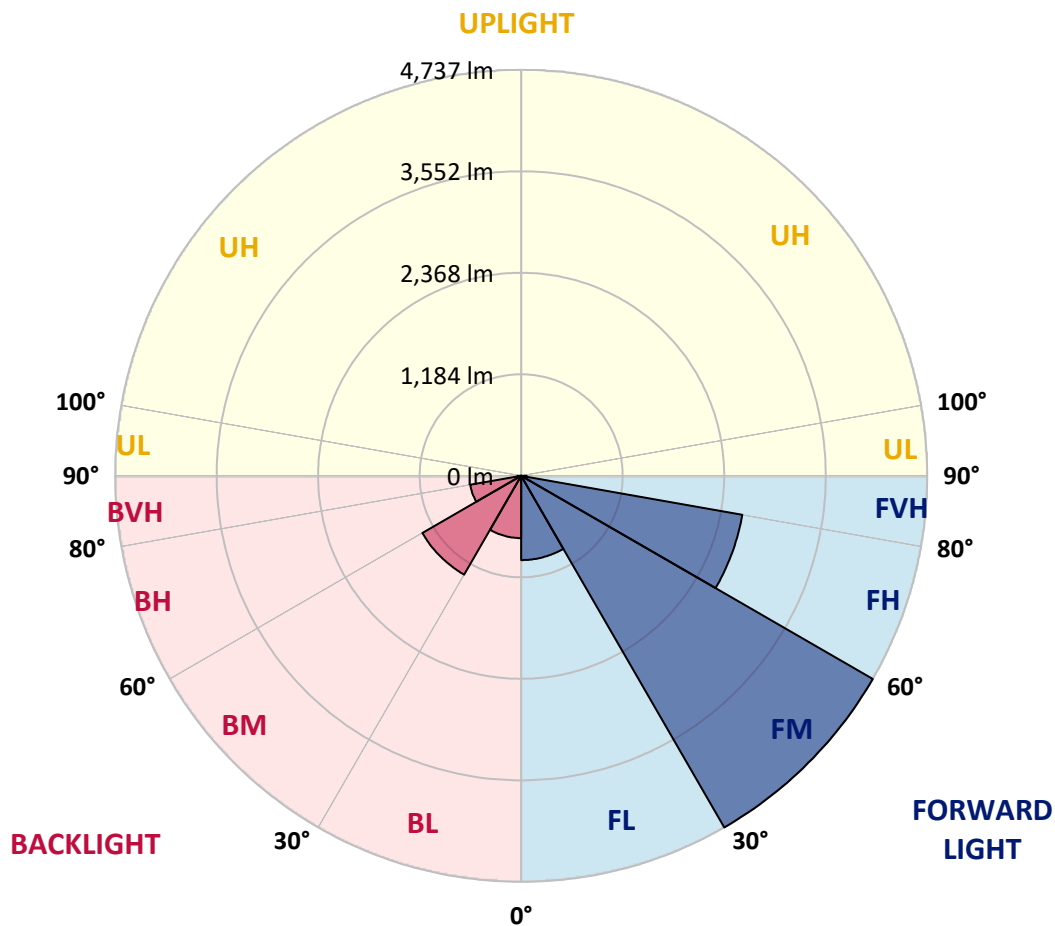
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.1	8.9			
FM	(30°-60°)	4736.5	42.6			
FH	(60°-80°)	2619.3	23.6			G2/5000
FVH	(80°-90°)	63.2	0.6			G1/100
BL	(0°-30°)	727.0	6.5	B2/1000		
BM	(30°-60°)	1331.6	12.0	B2/2500		
BH	(60°-80°)	603.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	42.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8
2.5°	1815.1	1812.2	1817.9	1826.5	1830.8	1823.7	1820.8	1819.4	1819.4	1815.1	1822.2
5°	1729.3	1727.9	1740.8	1756.5	1786.5	1807.9	1836.5	1853.7	1848.0	1839.4	1845.1
7.5°	1617.9	1615.0	1630.7	1660.7	1702.2	1749.3	1819.4	1873.7	1895.1	1892.3	1890.8
10°	1660.7	1657.9	1656.4	1647.9	1662.2	1707.9	1780.8	1876.5	1949.4	1950.9	1952.3
12.5°	1809.4	1816.5	1809.4	1782.2	1750.8	1733.6	1776.5	1883.7	1995.2	2003.7	2039.5
15°	2012.3	2005.2	1990.9	1959.4	1910.8	1859.4	1828.0	1916.6	2060.9	2068.1	2146.7
17.5°	2191.0	2196.7	2188.1	2158.1	2100.9	2033.8	1938.0	1973.7	2130.9	2151.0	2261.0
20°	2385.3	2408.2	2396.8	2359.6	2312.5	2212.4	2092.4	2056.6	2208.1	2222.4	2379.6
22.5°	2609.7	2634.0	2612.6	2576.9	2538.3	2415.4	2261.0	2158.1	2272.4	2302.4	2494.0
25°	2878.4	2901.3	2881.3	2825.5	2776.9	2626.9	2442.5	2272.4	2335.3	2368.2	2586.9
27.5°	3091.4	3108.5	3127.1	3094.2	3019.9	2864.1	2631.2	2391.1	2398.2	2432.5	2672.6
30°	3281.5	3324.3	3340.1	3344.3	3281.5	3107.1	2824.1	2514.0	2452.5	2488.2	2758.4
32.5°	3541.6	3605.9	3580.2	3605.9	3568.7	3335.8	3024.2	2641.2	2522.5	2555.4	2839.8
35°	3921.7	3973.2	3906.0	3886.0	3826.0	3567.3	3217.1	2772.7	2615.4	2651.2	2917.0
37.5°	4330.5	4389.1	4291.9	4211.9	4097.5	3796.0	3382.9	2945.6	2744.1	2772.7	2988.5
40°	4687.8	4736.4	4652.1	4546.3	4354.8	3997.5	3525.8	3067.1	2872.7	2908.4	3071.4
42.5°	5017.9	5049.4	4955.1	4853.6	4597.8	4179.0	3680.2	3195.7	3022.8	3057.1	3138.5
45°	5352.4	5376.7	5245.2	5100.8	4800.7	4344.8	3850.3	3375.8	3242.9	3288.6	3247.2
47.5°	5412.4	5419.5	5396.7	5299.5	4960.8	4503.4	4060.4	3617.3	3578.7	3628.8	3434.4
50°	4996.5	5060.8	5202.3	5298.1	5025.1	4636.3	4270.5	3963.2	4041.8	4106.1	3823.1
52.5°	4189.0	4250.5	4577.7	4940.8	4870.7	4666.4	4496.3	4401.9	4694.9	4772.1	4351.9
55°	3337.2	3391.5	3737.4	4260.5	4371.9	4529.1	4737.8	4962.2	5528.2	5579.6	4932.2
57.5°	2748.4	2778.4	3025.6	3528.7	3707.4	4090.4	4867.9	5628.2	6375.7	6454.3	5436.7
60°	2253.9	2286.7	2471.1	2885.6	3122.8	3463.0	4765.0	6285.6	7387.6	7387.6	6084.1
62.5°	1696.5	1725.0	1896.6	2221.0	2619.7	2931.3	4436.3	6721.5	8150.8	8116.5	6552.9
65°	1164.8	1187.7	1312.0	1527.8	1886.5	2498.2	3987.5	6727.3	8656.7	8611.0	6753.0
66°	977.6	997.6	1103.3	1277.7	1579.3	2266.7	3828.8	6605.8	8762.5	8698.1	6668.7
67.5°	771.8	786.1	856.1	959.0	1157.7	1835.1	3578.7	6261.3	8752.4	8713.9	6454.3
70°	551.7	561.7	613.1	634.6	684.6	1061.9	2842.7	5483.9	8050.7	8062.1	5611.1
72.5°	427.3	443.1	474.5	478.8	467.3	564.5	1725.0	4574.9	6585.8	6581.5	4164.7
75°	344.4	353.0	368.7	377.3	374.5	364.4	730.3	3412.9	4533.4	4586.3	2332.5
77.5°	271.5	270.1	284.4	295.8	304.4	285.8	334.4	2000.9	2376.8	2309.6	876.1
80°	200.1	200.1	220.1	224.4	237.2	240.1	223.0	771.8	816.1	741.8	227.2
82.5°	131.5	131.5	152.9	155.8	168.6	187.2	161.5	231.5	225.8	214.4	102.9
85°	71.5	68.6	75.7	85.8	92.9	110.0	97.2	115.8	118.6	117.2	68.6
87.5°	14.3	12.9	20.0	22.9	25.7	34.3	31.4	47.2	65.7	64.3	30.0
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°	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8	1820.8
2.5°	1832.2	1830.8	1846.5	1865.1	1886.5	1899.4	1905.1	1915.1	1908.0	1910.8	1919.4
5°	1859.4	1863.7	1886.5	1910.8	1920.9	1913.7	1898.0	1892.3	1879.4	1876.5	1873.7
7.5°	1899.4	1906.6	1929.4	1935.1	1905.1	1855.1	1819.4	1799.4	1777.9	1772.2	1769.4
10°	1965.2	1969.4	1975.2	1916.6	1842.2	1775.1	1730.8	1712.2	1697.9	1686.5	1689.3
12.5°	2048.1	2045.2	2000.9	1879.4	1773.6	1705.0	1675.0	1663.6	1653.6	1646.4	1645.0
15°	2152.4	2132.4	2005.2	1828.0	1709.3	1652.2	1630.7	1626.4	1615.0	1615.0	1613.6
17.5°	2258.1	2206.7	2002.3	1773.6	1647.9	1616.4	1603.6	1600.7	1597.9	1596.4	1600.7
20°	2363.9	2272.4	1979.4	1706.5	1605.0	1586.4	1583.6	1585.0	1582.1	1586.4	1583.6
22.5°	2456.8	2315.3	1936.6	1635.0	1575.0	1573.6	1566.4	1569.3	1579.3	1580.7	1585.0
25°	2528.3	2331.0	1873.7	1569.3	1553.5	1550.7	1559.3	1570.7	1579.3	1580.7	1587.8
27.5°	2586.9	2322.5	1795.1	1517.8	1516.4	1532.1	1557.8	1562.1	1563.5	1563.5	1557.8
30°	2631.2	2303.9	1695.0	1460.6	1467.8	1506.4	1530.7	1530.7	1519.2	1516.4	1525.0
32.5°	2641.2	2279.6	1586.4	1402.0	1413.5	1459.2	1489.2	1479.2	1466.4	1466.4	1472.1
35°	2649.7	2246.7	1499.2	1322.0	1339.2	1393.5	1422.1	1402.0	1387.8	1383.5	1382.0
37.5°	2646.9	2233.8	1420.6	1220.5	1243.4	1296.3	1314.9	1296.3	1274.9	1264.8	1277.7
40°	2649.7	2225.3	1322.0	1109.1	1131.9	1163.4	1187.7	1173.4	1153.4	1127.6	1140.5
42.5°	2666.9	2236.7	1213.4	1000.4	1000.4	1017.6	1059.0	1049.0	1000.4	990.4	1001.9
45°	2758.4	2298.2	1104.8	891.8	876.1	887.5	930.4	887.5	857.5	857.5	867.5
47.5°	2979.9	2412.5	1009.0	796.1	758.9	781.8	793.2	753.2	730.3	724.6	734.6
50°	3431.5	2641.2	951.9	717.5	671.7	688.9	681.7	680.3	657.4	660.3	666.0
52.5°	4117.5	3087.1	934.7	678.9	621.7	626.0	618.8	621.7	617.4	631.7	636.0
55°	4865.0	3557.3	956.1	684.6	587.4	557.4	560.2	574.5	591.7	614.6	618.8
57.5°	5423.8	3793.1	1011.9	723.2	544.5	498.8	505.9	533.1	566.0	584.5	594.5
60°	5839.7	3764.5	1093.3	733.2	493.1	445.9	458.8	498.8	527.4	543.1	553.1
62.5°	5975.5	3585.9	1113.4	660.3	425.9	395.9	427.3	468.8	481.6	498.8	505.9
65°	5864.0	3332.9	967.6	536.0	374.5	358.7	404.5	435.9	453.1	461.6	463.1
66°	5732.5	3181.4	889.0	487.4	355.9	347.3	395.9	421.6	438.8	437.3	438.8
67.5°	5443.8	2864.1	761.8	418.8	328.7	330.1	381.6	398.7	404.5	400.2	400.2
70°	4462.0	2016.6	546.0	317.3	288.7	308.7	343.0	347.3	360.2	354.4	354.4
72.5°	2751.2	990.4	365.9	243.0	257.3	288.7	287.3	301.6	331.6	340.2	345.9
75°	1352.0	401.6	241.5	205.8	230.1	241.5	238.7	274.4	317.3	354.4	367.3
77.5°	513.1	200.1	168.6	180.1	185.8	181.5	190.1	248.7	317.3	384.5	397.3
80°	158.6	138.6	132.9	148.6	140.1	132.9	142.9	205.8	268.7	291.6	291.6
82.5°	95.8	108.6	102.9	101.5	94.3	95.8	102.9	147.2	207.2	217.2	217.2
85°	67.2	71.5	58.6	55.7	54.3	52.9	52.9	85.8	122.9	121.5	125.8
87.5°	25.7	28.6	21.4	21.4	20.0	14.3	11.4	14.3	14.3	10.0	7.1
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)