

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: P1210297

Luminaire Tested: **ARCH2-80-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210297
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: ARCH2-80-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10832 lumens
Efficiency: N/A
Efficacy: 128.5 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): 84.3
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



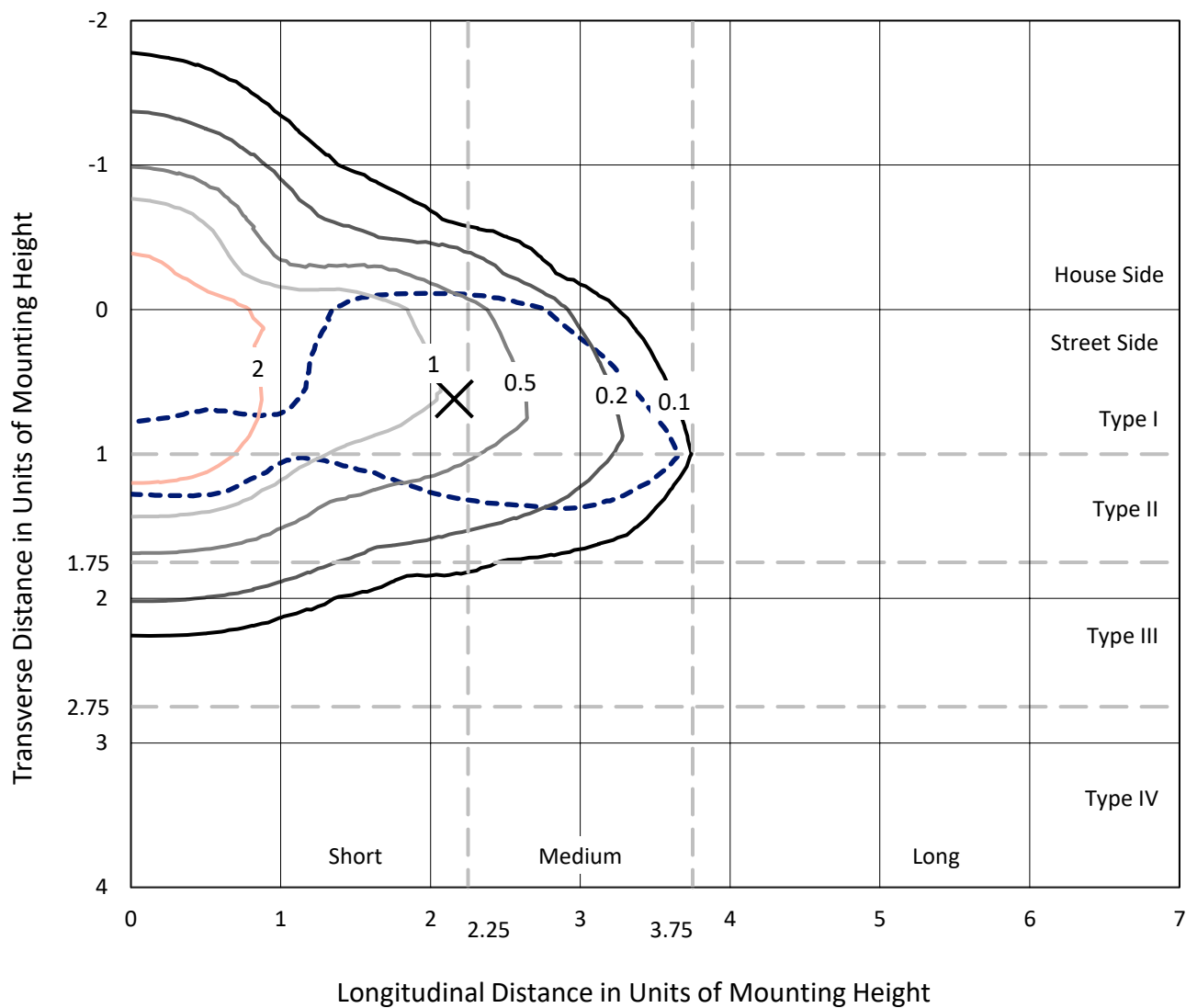
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

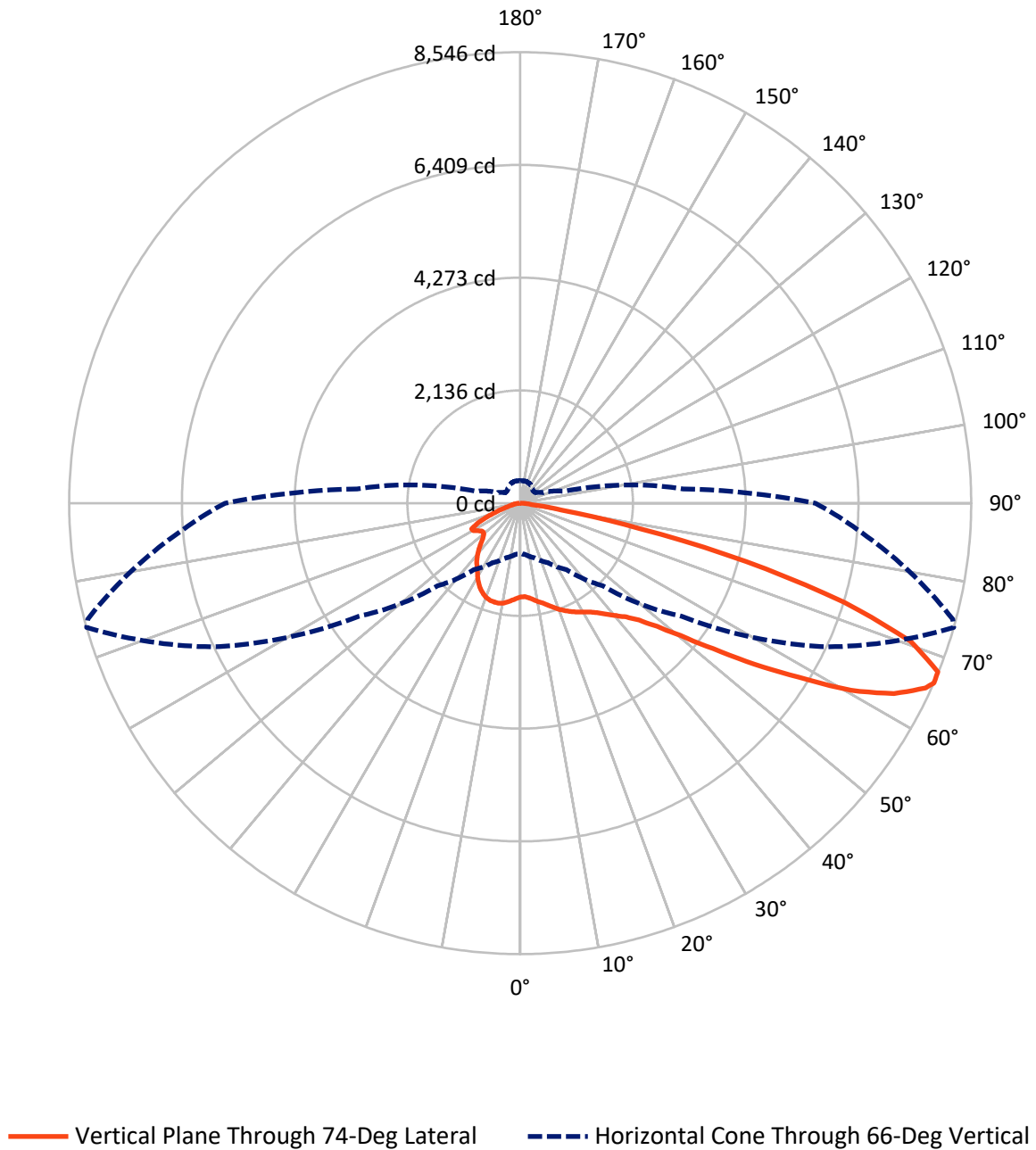


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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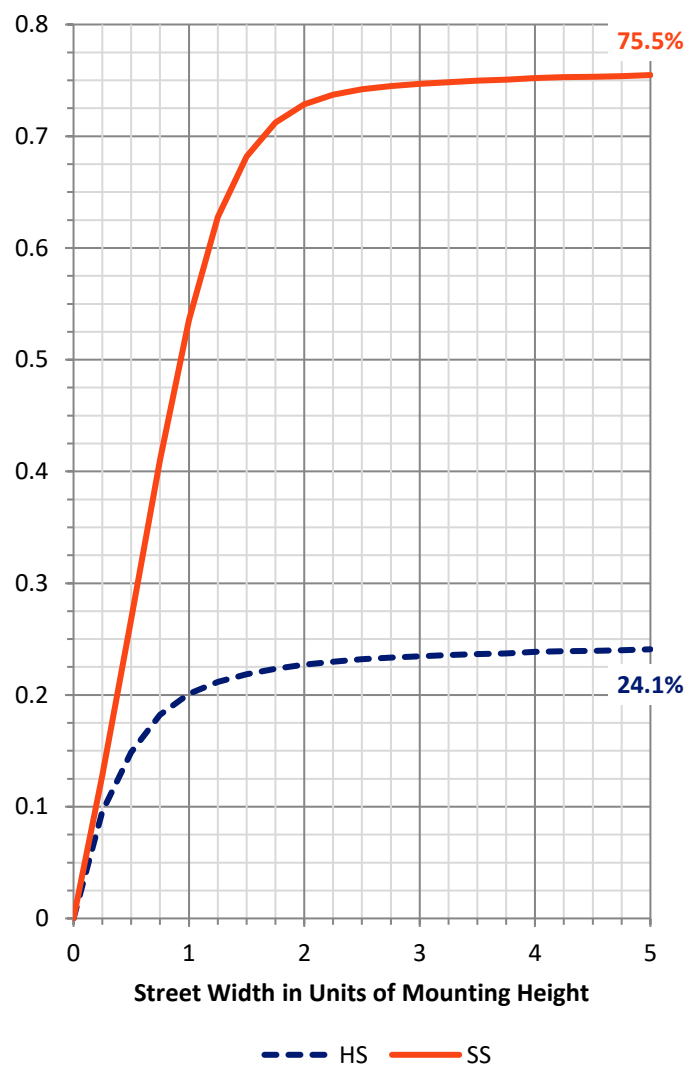
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.9	0.0	2637.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8194.1	0.0	8194.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	10832.0	0.0	10832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.6
10°-20°	520.9	4.8
20°-30°	977.5	9.0
30°-40°	1503.6	13.9
40°-50°	2022.5	18.7
50°-60°	2391.8	22.1
60°-70°	2212.6	20.4
70°-80°	930.8	8.6
80°-90°	103.0	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°	10832.0	100.0
0°-180°	10832.0	100.0

Coefficient of Utilization



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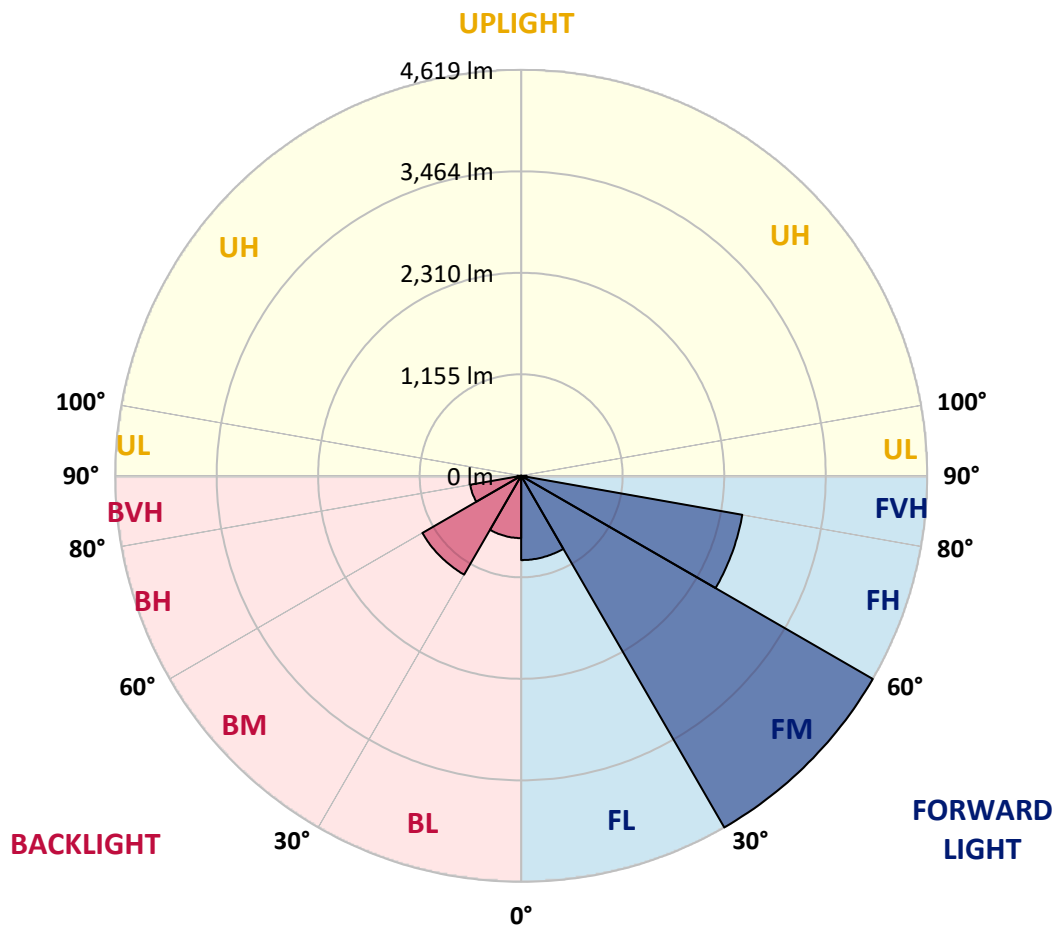
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.8	8.9			
FM	(30°-60°)	4619.2	42.6			
FH	(60°-80°)	2554.5	23.6			G2/5000
FVH	(80°-90°)	61.6	0.6			G1/100
BL	(0°-30°)	709.0	6.5	B2/1000		
BM	(30°-60°)	1298.6	12.0	B2/2500		
BH	(60°-80°)	588.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	41.4	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°	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7
2.5°	1770.1	1767.4	1772.9	1781.3	1785.5	1778.5	1775.7	1774.3	1774.3	1770.1	1777.1
5°	1686.5	1685.1	1697.7	1713.0	1742.3	1763.2	1791.1	1807.8	1802.2	1793.8	1799.4
7.5°	1577.8	1575.0	1590.3	1619.6	1660.0	1706.0	1774.3	1827.3	1848.2	1845.4	1844.0
10°	1619.6	1616.8	1615.4	1607.1	1621.0	1665.6	1736.7	1830.1	1901.2	1902.6	1904.0
12.5°	1764.6	1771.5	1764.6	1738.1	1707.4	1690.7	1732.5	1837.1	1945.8	1954.1	1989.0
15°	1962.5	1955.5	1941.6	1910.9	1863.5	1813.4	1782.7	1869.1	2009.9	2016.9	2093.5
17.5°	2136.7	2142.3	2133.9	2104.7	2048.9	1983.4	1890.0	1924.9	2078.2	2097.7	2205.0
20°	2326.3	2348.6	2337.4	2301.2	2255.2	2157.6	2040.6	2005.7	2153.4	2167.4	2320.7
22.5°	2545.1	2568.8	2547.9	2513.1	2475.4	2355.6	2205.0	2104.7	2216.2	2245.4	2432.2
25°	2807.2	2829.5	2809.9	2755.6	2708.2	2561.8	2382.0	2216.2	2277.5	2309.6	2522.8
27.5°	3014.8	3031.6	3049.7	3017.6	2945.1	2793.2	2566.0	2331.9	2338.8	2372.3	2606.4
30°	3200.2	3242.0	3257.4	3261.5	3200.2	3030.2	2754.2	2451.7	2391.8	2426.6	2690.1
32.5°	3453.9	3516.6	3491.5	3516.6	3480.4	3253.2	2949.3	2575.8	2460.1	2492.1	2769.5
35°	3824.6	3874.8	3809.3	3789.8	3731.3	3479.0	3137.5	2704.0	2550.7	2585.5	2844.8
37.5°	4223.3	4280.4	4185.6	4107.6	3996.1	3702.0	3299.2	2872.7	2676.1	2704.0	2914.5
40°	4571.7	4619.1	4536.9	4433.7	4247.0	3898.5	3438.6	2991.1	2801.6	2836.4	2995.3
42.5°	4893.7	4924.4	4832.4	4733.4	4483.9	4075.5	3589.1	3116.6	2947.9	2981.4	3060.8
45°	5219.9	5243.5	5115.3	4974.5	4681.8	4237.2	3754.9	3292.2	3162.6	3207.2	3166.8
47.5°	5278.4	5285.4	5263.1	5168.3	4837.9	4391.9	3959.8	3527.8	3490.1	3538.9	3349.3
50°	4872.8	4935.5	5073.5	5166.9	4900.7	4521.5	4164.7	3865.1	3941.7	4004.4	3728.5
52.5°	4085.3	4145.2	4464.4	4818.4	4750.1	4550.8	4385.0	4293.0	4578.7	4654.0	4244.2
55°	3254.6	3307.5	3644.8	4155.0	4263.7	4417.0	4620.5	4839.3	5391.3	5441.5	4810.1
57.5°	2680.3	2709.6	2950.7	3441.3	3615.6	3989.1	4747.3	5488.9	6217.8	6294.5	5302.1
60°	2198.1	2230.1	2409.9	2814.1	3045.5	3377.2	4647.0	6130.0	7204.6	7204.6	5933.5
62.5°	1654.5	1682.3	1849.6	2166.0	2554.9	2858.7	4326.4	6555.1	7948.9	7915.5	6390.7
65°	1136.0	1158.3	1279.5	1490.0	1839.8	2436.4	3888.8	6560.7	8442.4	8397.8	6585.8
66°	953.4	972.9	1076.0	1246.1	1540.2	2210.6	3734.0	6442.2	8545.5	8482.8	6503.6
67.5°	752.7	766.6	834.9	935.3	1129.0	1789.7	3490.1	6106.3	8535.7	8498.1	6294.5
70°	538.0	547.8	597.9	618.9	667.6	1035.6	2772.3	5348.1	7851.4	7862.5	5472.1
72.5°	416.8	432.1	462.7	466.9	455.8	550.6	1682.3	4461.6	6422.7	6418.5	4061.6
75°	335.9	344.3	359.6	368.0	365.2	355.4	712.2	3328.4	4421.2	4472.8	2274.7
77.5°	264.8	263.4	277.4	288.5	296.9	278.8	326.2	1951.3	2317.9	2252.4	854.4
80°	195.1	195.1	214.6	218.8	231.4	234.2	217.4	752.7	795.9	723.4	221.6
82.5°	128.2	128.2	149.1	151.9	164.5	182.6	157.5	225.8	220.2	209.1	100.4
85°	69.7	66.9	73.9	83.6	90.6	107.3	94.8	112.9	115.7	114.3	66.9
87.5°	13.9	12.5	19.5	22.3	25.1	33.5	30.7	46.0	64.1	62.7	29.3
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°	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7	1775.7
2.5°	1786.9	1785.5	1800.8	1818.9	1839.8	1852.4	1858.0	1867.7	1860.7	1863.5	1871.9
5°	1813.4	1817.5	1839.8	1863.5	1873.3	1866.3	1851.0	1845.4	1832.9	1830.1	1827.3
7.5°	1852.4	1859.4	1881.7	1887.2	1858.0	1809.2	1774.3	1754.8	1733.9	1728.3	1725.5
10°	1916.5	1920.7	1926.3	1869.1	1796.6	1731.1	1687.9	1669.8	1655.9	1644.7	1647.5
12.5°	1997.3	1994.6	1951.3	1832.9	1729.7	1662.8	1633.6	1622.4	1612.6	1605.7	1604.3
15°	2099.1	2079.6	1955.5	1782.7	1667.0	1611.3	1590.3	1586.2	1575.0	1575.0	1573.6
17.5°	2202.2	2152.1	1952.7	1729.7	1607.1	1576.4	1563.9	1561.1	1558.3	1556.9	1561.1
20°	2305.4	2216.2	1930.4	1664.2	1565.3	1547.1	1544.4	1545.7	1543.0	1547.1	1544.4
22.5°	2396.0	2258.0	1888.6	1594.5	1536.0	1534.6	1527.6	1530.4	1540.2	1541.6	1545.7
25°	2465.7	2273.3	1827.3	1530.4	1515.1	1512.3	1520.7	1531.8	1540.2	1541.6	1548.5
27.5°	2522.8	2265.0	1750.6	1480.2	1478.8	1494.2	1519.3	1523.4	1524.8	1524.8	1519.3
30°	2566.0	2246.8	1653.1	1424.5	1431.5	1469.1	1492.8	1492.8	1481.6	1478.8	1487.2
32.5°	2575.8	2223.1	1547.1	1367.3	1378.5	1423.1	1452.4	1442.6	1430.1	1430.1	1435.6
35°	2584.1	2191.1	1462.1	1289.3	1306.0	1359.0	1386.8	1367.3	1353.4	1349.2	1347.8
37.5°	2581.4	2178.5	1385.5	1190.3	1212.6	1264.2	1282.3	1264.2	1243.3	1233.5	1246.1
40°	2584.1	2170.2	1289.3	1081.6	1103.9	1134.6	1158.3	1144.3	1124.8	1099.7	1112.3
42.5°	2600.9	2181.3	1183.4	975.7	975.7	992.4	1032.8	1023.1	975.7	965.9	977.1
45°	2690.1	2241.3	1077.4	869.7	854.4	865.6	907.4	865.6	836.3	836.3	846.0
47.5°	2906.1	2352.8	984.0	776.4	740.1	762.4	773.6	734.5	712.2	706.7	716.4
50°	3346.6	2575.8	928.3	699.7	655.1	671.8	664.9	663.5	641.2	643.9	649.5
52.5°	4015.6	3010.6	911.6	662.1	606.3	610.5	603.5	606.3	602.1	616.1	620.2
55°	4744.6	3469.2	932.5	667.6	572.9	543.6	546.4	560.3	577.0	599.3	603.5
57.5°	5289.5	3699.2	986.8	705.3	531.0	486.4	493.4	519.9	552.0	570.1	579.8
60°	5695.1	3671.3	1066.3	715.0	480.9	434.9	447.4	486.4	514.3	529.7	539.4
62.5°	5827.6	3497.1	1085.8	643.9	415.4	386.1	416.8	457.2	469.7	486.4	493.4
65°	5718.8	3250.4	943.6	522.7	365.2	349.8	394.5	425.1	441.8	450.2	451.6
66°	5590.6	3102.6	867.0	475.3	347.1	338.7	386.1	411.2	427.9	426.5	427.9
67.5°	5309.1	2793.2	742.9	408.4	320.6	322.0	372.1	388.9	394.5	390.3	390.3
70°	4351.5	1966.7	532.4	309.4	281.6	301.1	334.5	338.7	351.2	345.7	345.7
72.5°	2683.1	965.9	356.8	236.9	250.9	281.6	280.2	294.1	323.4	331.7	337.3
75°	1318.6	391.7	235.6	200.7	224.4	235.6	232.8	267.6	309.4	345.7	358.2
77.5°	500.4	195.1	164.5	175.6	181.2	177.0	185.4	242.5	309.4	374.9	387.5
80°	154.7	135.2	129.6	145.0	136.6	129.6	139.4	200.7	262.0	284.3	284.3
82.5°	93.4	105.9	100.4	99.0	92.0	93.4	100.4	143.6	202.1	211.9	211.9
85°	65.5	69.7	57.1	54.4	53.0	51.6	51.6	83.6	119.9	118.5	122.7
87.5°	25.1	27.9	20.9	20.9	19.5	13.9	11.2	13.9	13.9	9.8	7.0
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)