

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: P836745

Luminaire Tested: **ARCH3-70-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10117 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - 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



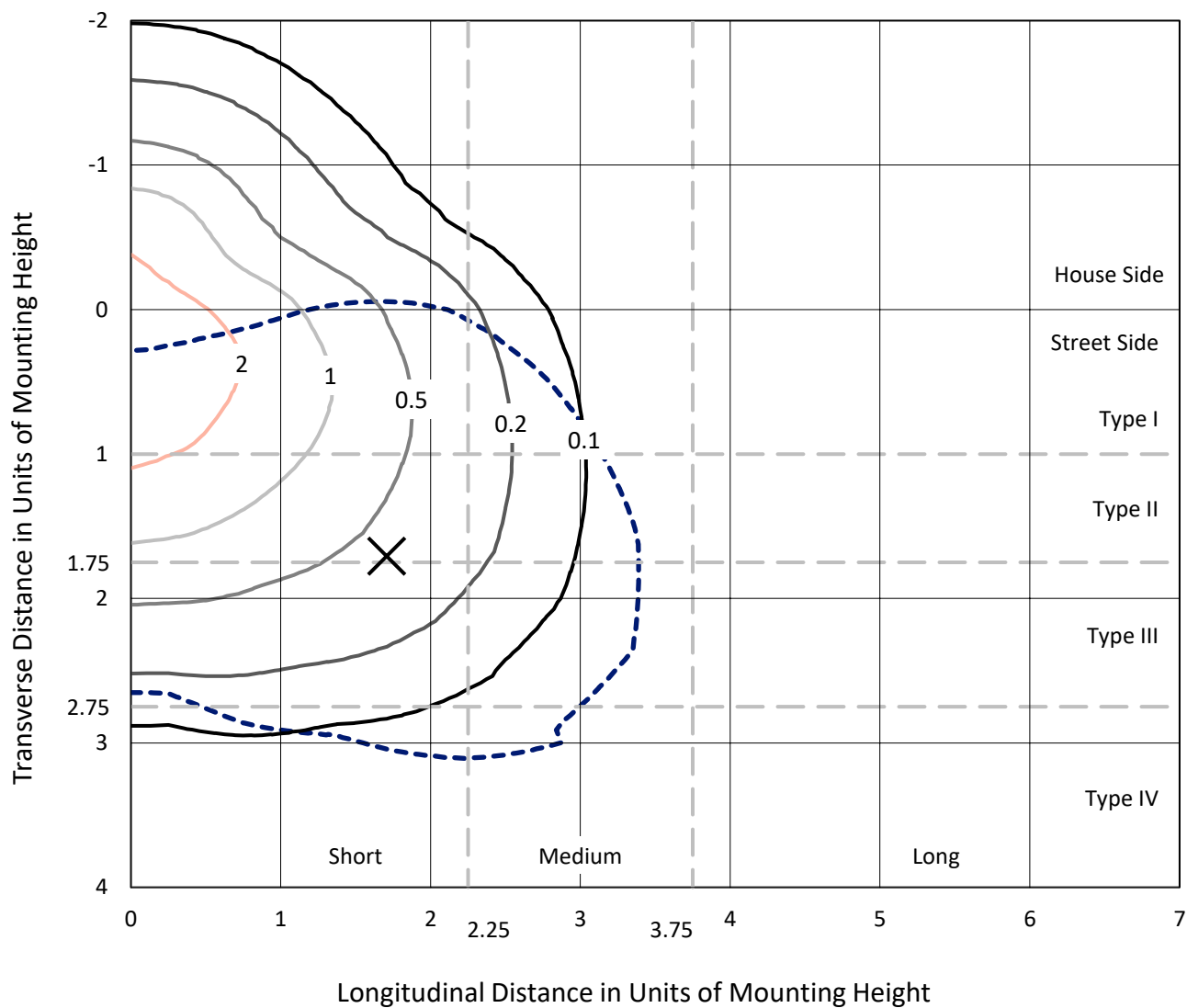
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



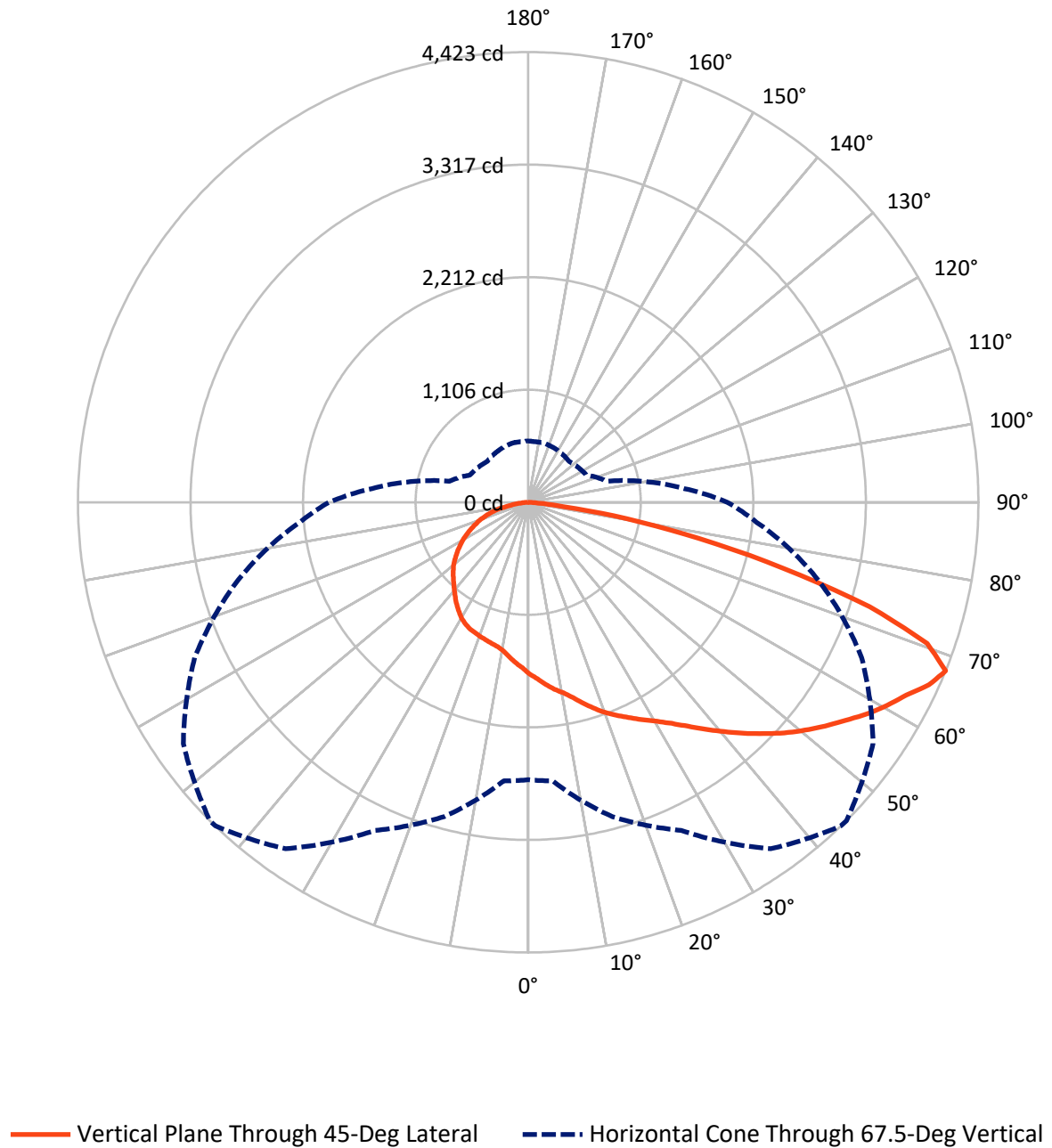
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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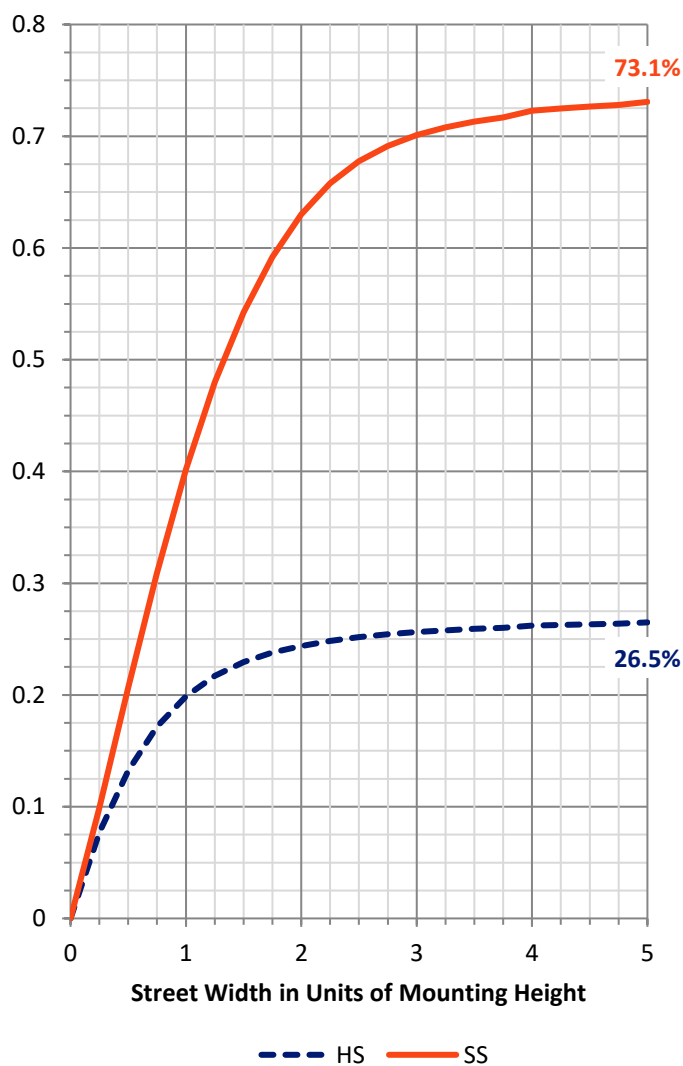
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2702.8	0.0	2702.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7414.2	0.0	7414.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	10117.0	0.0	10117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.6
10°-20°	499.1	4.9
20°-30°	861.4	8.5
30°-40°	1270.3	12.6
40°-50°	1721.0	17.0
50°-60°	2103.5	20.8
60°-70°	2169.5	21.4
70°-80°	1188.3	11.7
80°-90°	142.4	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°	10117.0	100.0
0°-180°	10117.0	100.0

Coefficient of Utilization



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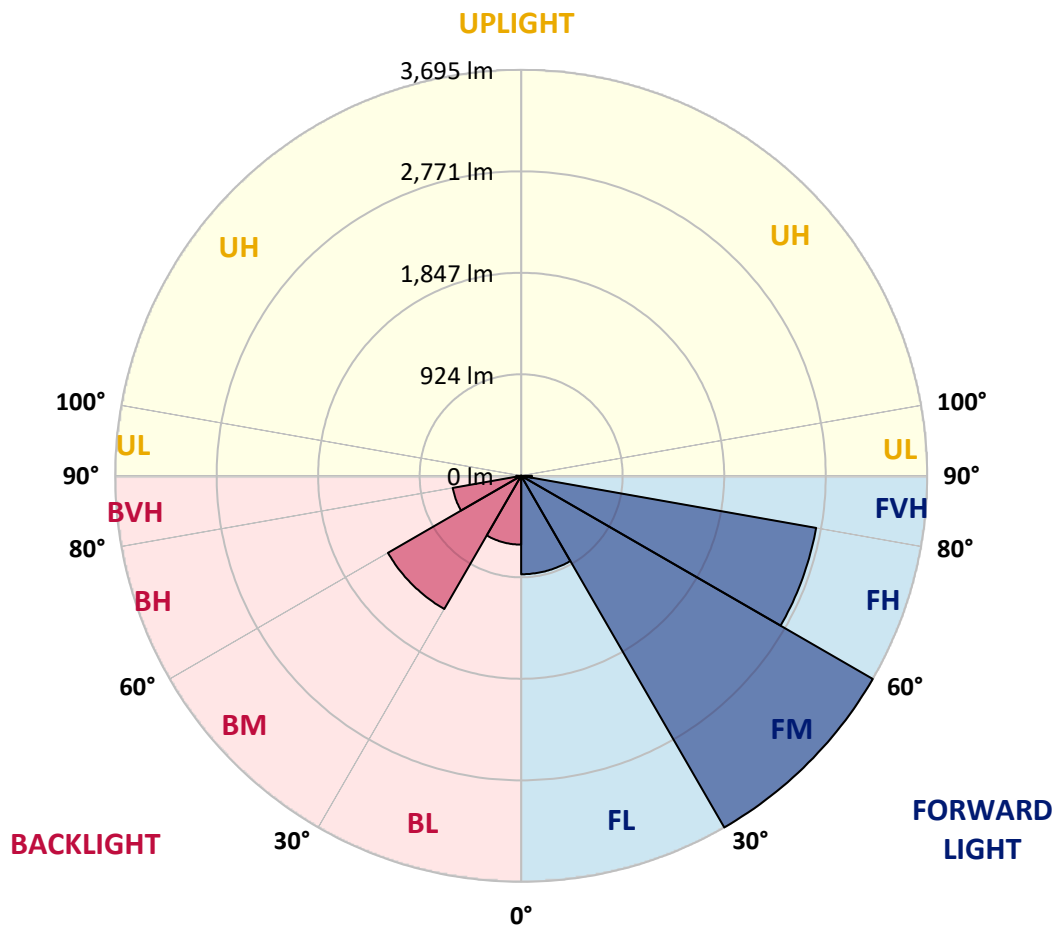
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.6	8.9			
FM	(30°-60°)	3694.8	36.5			
FH	(60°-80°)	2725.7	26.9			G2/5000
FVH	(80°-90°)	98.1	1.0			G1/100
BL	(0°-30°)	626.4	6.2	B2/1000		
BM	(30°-60°)	1400.0	13.8	B2/2500		
BH	(60°-80°)	632.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	44.3	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°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1761.2	1759.7	1762.8	1752.0	1738.1	1736.6	1736.6	1727.4	1716.6	1695.0	1678.1
5°	1844.4	1841.3	1842.8	1827.4	1808.9	1799.7	1798.2	1778.2	1753.5	1719.7	1688.9
7.5°	1921.3	1918.3	1916.7	1899.8	1872.1	1856.7	1855.1	1825.9	1796.6	1744.3	1699.6
10°	1993.7	1990.6	1987.5	1964.4	1930.6	1907.5	1904.4	1867.4	1830.5	1765.8	1708.9
12.5°	2086.1	2079.9	2076.8	2049.1	1999.8	1975.2	1970.6	1921.3	1875.1	1796.6	1727.4
15°	2183.1	2178.4	2173.8	2147.6	2092.2	2059.9	2052.2	1990.6	1927.5	1836.7	1755.1
17.5°	2255.4	2250.8	2250.8	2227.7	2176.9	2139.9	2133.8	2059.9	1981.4	1873.6	1776.6
20°	2300.1	2295.4	2300.1	2286.2	2247.7	2216.9	2210.8	2129.2	2035.3	1907.5	1795.1
22.5°	2332.4	2327.8	2335.5	2329.3	2301.6	2283.1	2278.5	2198.4	2090.7	1942.9	1813.6
25°	2389.3	2389.3	2389.3	2378.6	2352.4	2346.2	2346.2	2277.0	2161.5	1989.1	1841.3
27.5°	2503.3	2497.1	2489.4	2458.6	2414.0	2412.4	2421.7	2357.0	2243.1	2049.1	1875.1
30°	2671.1	2668.0	2638.8	2574.1	2498.7	2491.0	2497.1	2443.2	2330.8	2112.2	1913.6
32.5°	2888.2	2877.4	2817.3	2720.3	2612.6	2577.2	2589.5	2532.5	2423.2	2176.9	1950.6
35°	3042.1	3045.2	3002.1	2914.3	2786.5	2692.6	2701.9	2632.6	2523.3	2249.3	1996.8
37.5°	3219.2	3229.9	3165.3	3099.1	2980.5	2820.4	2829.7	2735.7	2623.4	2340.1	2046.0
40°	3463.9	3442.4	3333.1	3254.6	3123.7	2954.4	2962.1	2851.2	2738.8	2426.3	2103.0
42.5°	3668.7	3630.2	3497.8	3397.7	3240.7	3096.0	3103.7	2975.9	2855.8	2521.7	2166.1
45°	3962.7	3856.5	3665.6	3616.4	3360.8	3234.6	3242.2	3108.3	2979.0	2623.4	2233.9
47.5°	4133.6	3964.3	3842.7	3816.5	3493.2	3377.7	3387.0	3248.4	3111.4	2738.8	2304.7
50°	4122.9	4013.6	3978.1	3913.5	3610.2	3511.7	3520.9	3393.1	3245.3	2852.7	2372.4
52.5°	4052.0	4072.1	4053.6	3945.8	3727.2	3641.0	3651.8	3536.3	3382.3	2959.0	2435.5
55°	4161.3	4175.2	4139.8	3998.2	3856.5	3770.3	3782.6	3687.2	3517.8	3052.9	2489.4
57.5°	4292.2	4242.9	4207.5	4090.5	3990.5	3910.4	3924.3	3841.1	3634.8	3128.3	2531.0
60°	4286.0	4182.9	4218.3	4096.7	4081.3	4039.7	4052.0	3967.4	3724.1	3183.7	2547.9
62.5°	3970.4	3915.0	4093.6	4052.0	4155.2	4155.2	4170.6	4044.3	3778.0	3206.8	2538.7
65°	3422.4	3425.5	3739.5	3911.9	4242.9	4313.8	4326.1	4092.1	3747.2	3139.1	2452.5
67.5°	2726.5	2746.5	3197.6	3556.3	4155.2	4421.5	4423.1	4135.2	3614.8	2948.2	2252.3
70°	1995.2	2010.6	2543.3	2979.0	3741.1	4182.9	4158.3	4013.6	3326.9	2615.7	1939.8
72.5°	1348.6	1362.5	1910.6	2287.7	3069.8	3562.5	3508.6	3547.1	2835.8	2149.2	1559.5
75°	906.8	923.7	1359.4	1636.5	2258.5	2705.0	2584.9	2686.5	2193.8	1627.3	1137.7
77.5°	571.2	581.9	863.7	1073.1	1542.6	1841.3	1721.2	1722.7	1264.0	876.0	611.2
80°	363.3	366.4	523.4	618.9	892.9	1106.9	979.1	795.9	569.6	464.9	364.9
82.5°	210.9	206.3	312.5	349.5	424.9	420.3	347.9	329.5	249.4	232.5	186.3
85°	84.7	78.5	137.0	127.8	129.3	137.0	101.6	101.6	81.6	63.1	46.2
87.5°	16.9	16.9	18.5	16.9	16.9	18.5	13.9	13.9	12.3	12.3	12.3
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°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1675.0	1671.9	1664.2	1644.2	1633.4	1627.3	1618.0	1615.0	1613.4	1615.0	1619.6
5°	1679.6	1668.8	1647.3	1615.0	1593.4	1579.6	1564.2	1558.0	1553.4	1553.4	1558.0
7.5°	1682.7	1665.8	1628.8	1581.1	1550.3	1528.8	1510.3	1502.6	1501.0	1505.7	1507.2
10°	1684.2	1659.6	1607.3	1547.2	1507.2	1479.5	1461.0	1456.4	1461.0	1470.3	1471.8
12.5°	1695.0	1661.2	1595.0	1524.1	1476.4	1448.7	1434.8	1434.8	1447.2	1464.1	1465.6
15°	1713.5	1671.9	1588.8	1505.7	1456.4	1431.8	1427.1	1434.8	1453.3	1479.5	1482.6
17.5°	1727.4	1678.1	1574.9	1481.0	1430.2	1414.8	1422.5	1441.0	1467.2	1502.6	1505.7
20°	1736.6	1678.1	1554.9	1451.8	1404.1	1401.0	1422.5	1451.8	1479.5	1521.1	1525.7
22.5°	1745.8	1675.0	1531.8	1416.4	1374.8	1384.0	1424.1	1461.0	1488.7	1533.4	1541.1
25°	1762.8	1679.6	1508.7	1381.0	1344.0	1370.2	1422.5	1467.2	1496.4	1542.6	1554.9
27.5°	1785.9	1690.4	1491.8	1348.6	1313.2	1348.6	1411.7	1465.6	1496.4	1541.1	1554.9
30°	1810.5	1702.7	1471.8	1313.2	1277.8	1317.8	1388.7	1448.7	1484.1	1525.7	1542.6
32.5°	1836.7	1716.6	1454.9	1274.7	1234.7	1276.3	1354.8	1422.5	1461.0	1499.5	1518.0
35°	1872.1	1741.2	1445.6	1243.9	1196.2	1233.2	1311.7	1388.7	1430.2	1465.6	1487.2
37.5°	1915.2	1772.0	1441.0	1213.1	1154.6	1185.4	1265.5	1347.1	1391.7	1421.0	1441.0
40°	1964.4	1810.5	1439.5	1183.9	1113.1	1136.2	1217.8	1299.4	1342.5	1365.6	1382.5
42.5°	2019.9	1853.6	1436.4	1154.6	1071.5	1090.0	1171.6	1251.6	1288.6	1308.6	1324.0
45°	2078.4	1896.7	1430.2	1119.2	1026.9	1048.4	1123.9	1194.7	1233.2	1250.1	1267.0
47.5°	2136.9	1939.8	1417.9	1079.2	986.8	1006.9	1073.1	1134.6	1165.4	1180.8	1197.8
50°	2193.8	1978.3	1388.7	1033.0	945.3	963.7	1014.5	1056.1	1079.2	1091.5	1108.5
52.5°	2244.6	2004.5	1347.1	979.1	903.7	912.9	946.8	982.2	1000.7	1002.2	1017.6
55°	2287.7	2018.3	1287.0	923.7	859.1	860.6	879.1	906.8	914.5	908.3	919.1
57.5°	2312.4	2010.6	1220.8	866.8	812.9	806.7	820.6	834.4	836.0	820.6	831.3
60°	2318.5	1975.2	1134.6	809.8	766.7	749.8	754.4	751.3	748.2	742.1	751.3
62.5°	2287.7	1899.8	1039.2	754.4	717.4	691.2	689.7	688.2	692.8	694.3	695.9
65°	2175.4	1758.1	925.3	697.4	665.1	629.7	628.1	646.6	652.8	643.5	646.6
67.5°	1958.3	1541.1	800.6	631.2	598.9	568.1	580.4	591.2	602.0	598.9	602.0
70°	1650.4	1265.5	686.6	557.3	526.5	509.6	523.4	532.7	534.2	531.1	534.2
72.5°	1297.8	988.4	580.4	481.9	454.2	446.5	463.4	471.1	485.0	491.1	492.6
75°	937.6	729.7	475.7	400.3	377.2	377.2	392.6	406.4	418.8	411.1	406.4
77.5°	523.4	435.7	341.8	275.6	280.2	301.7	307.9	323.3	335.6	334.1	331.0
80°	317.1	272.5	230.9	178.6	177.0	194.0	234.0	260.2	266.3	252.5	250.9
82.5°	164.7	143.2	123.2	100.1	110.8	129.3	135.5	163.2	180.1	174.0	181.7
85°	41.6	40.0	44.6	46.2	57.0	63.1	69.3	81.6	53.9	26.2	26.2
87.5°	12.3	12.3	15.4	15.4	20.0	24.6	23.1	23.1	12.3	1.5	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)