

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: P800073

Luminaire Tested: **ARCH2-70-750-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800073
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: ARCH2-70-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10083 lumens
Efficiency: N/A
Efficacy: 137.0 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): 73.6
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

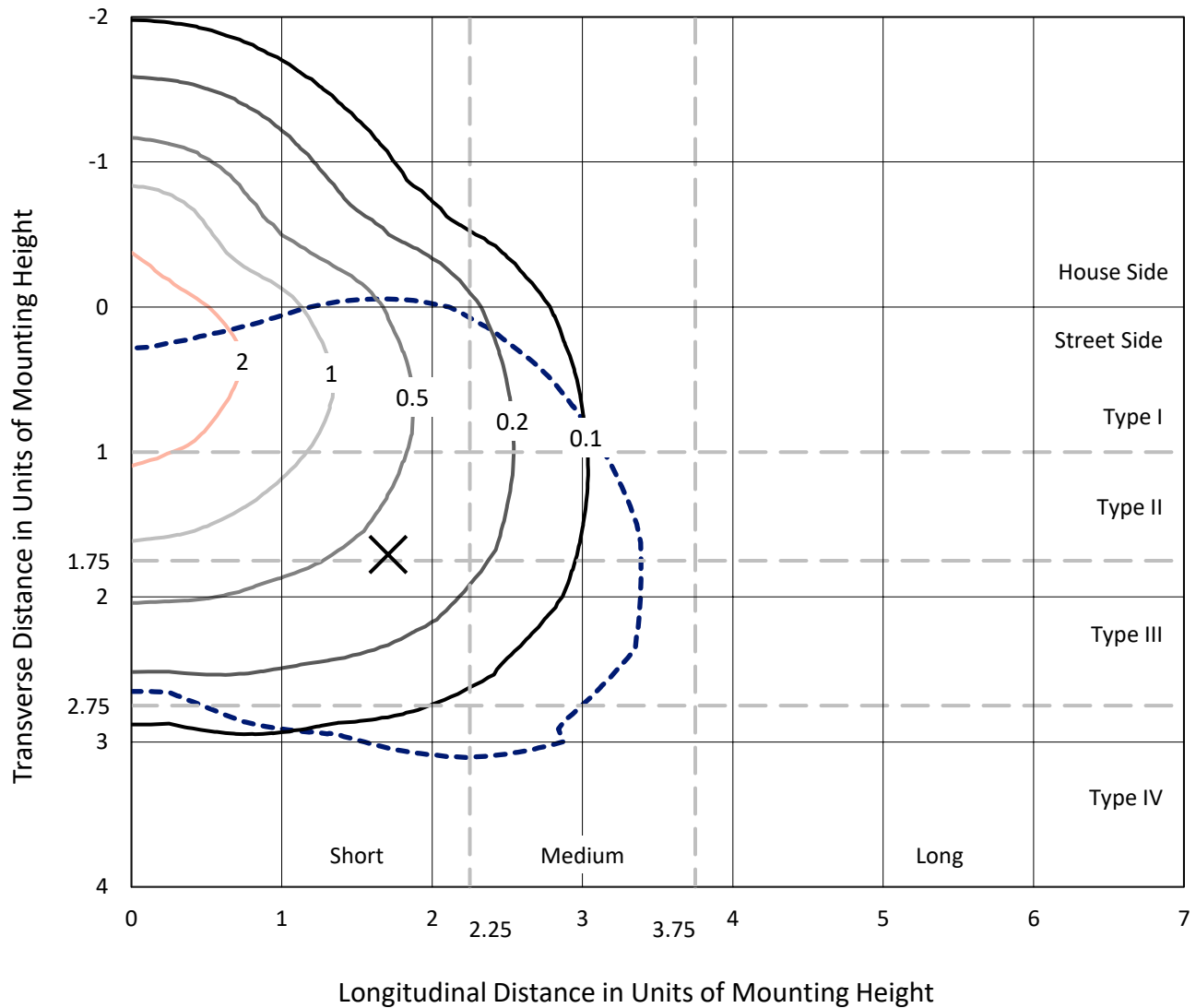


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

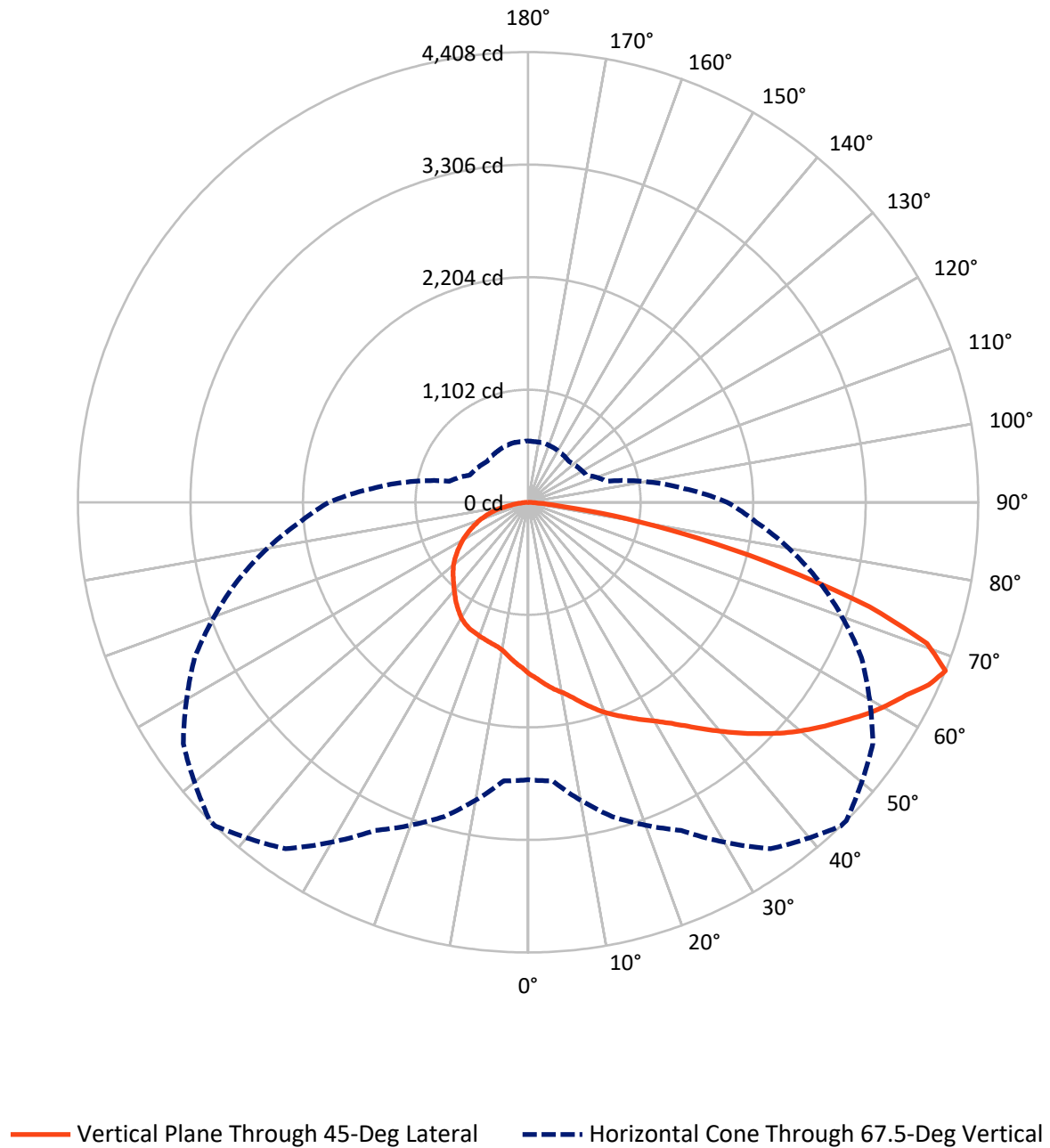


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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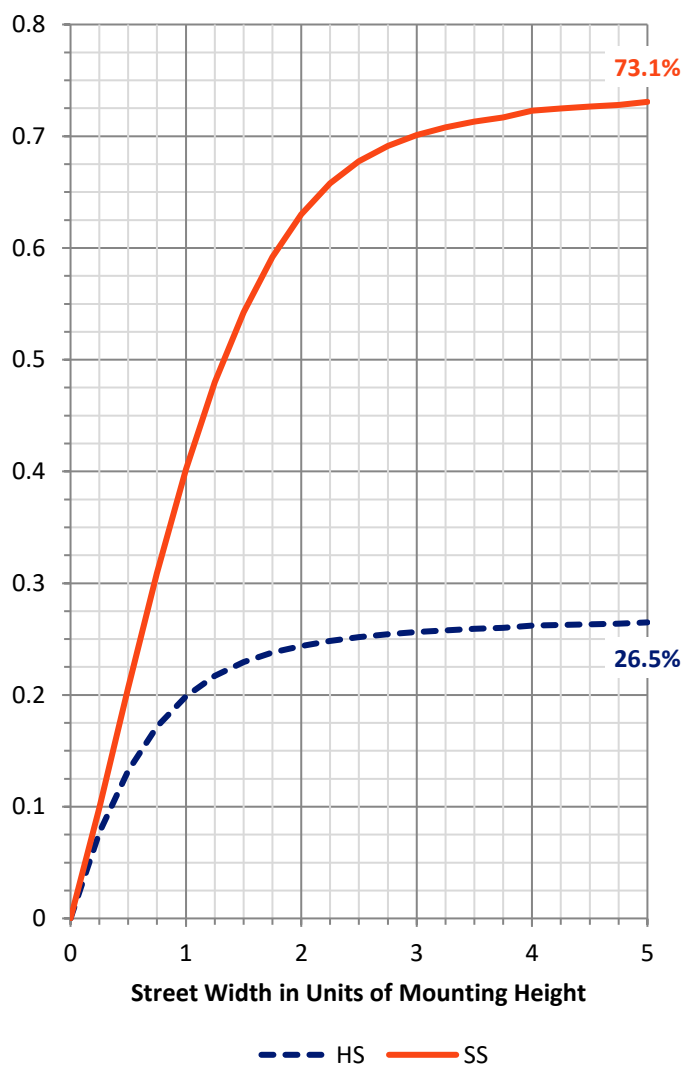
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.7	0.0	2693.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7389.3	0.0	7389.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	10083.0	0.0	10083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.6
10°-20°	497.4	4.9
20°-30°	858.5	8.5
30°-40°	1266.0	12.6
40°-50°	1715.2	17.0
50°-60°	2096.4	20.8
60°-70°	2162.2	21.4
70°-80°	1184.3	11.7
80°-90°	141.9	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°	10083.0	100.0
0°-180°	10083.0	100.0

Coefficient of Utilization



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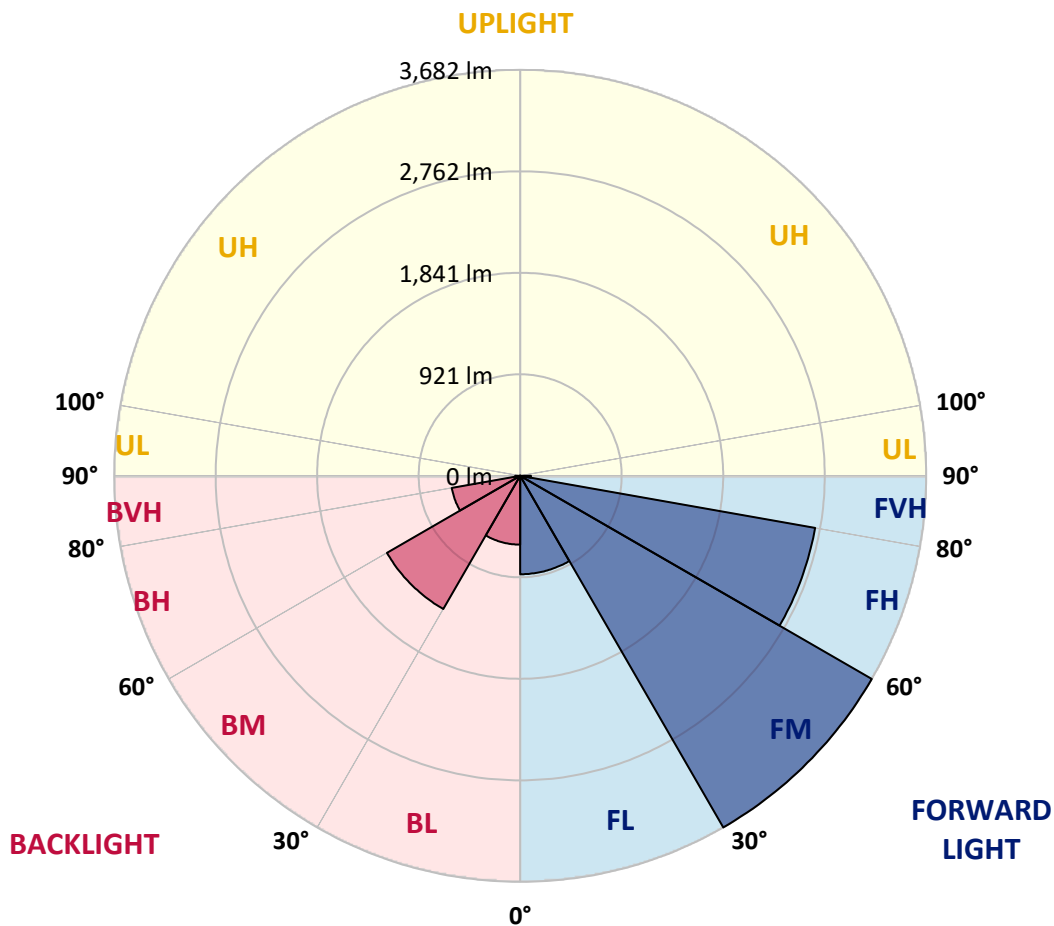
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.6	8.9			
FM	(30°-60°)	3682.4	36.5			
FH	(60°-80°)	2716.5	26.9			G2/5000
FVH	(80°-90°)	97.8	1.0			G1/100
BL	(0°-30°)	624.3	6.2	B2/1000		
BM	(30°-60°)	1395.3	13.8	B2/2500		
BH	(60°-80°)	629.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	44.2	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°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1755.3	1753.8	1756.8	1746.1	1732.3	1730.8	1730.8	1721.5	1710.8	1689.3	1672.4
5°	1838.2	1835.1	1836.6	1821.3	1802.9	1793.7	1792.1	1772.2	1747.6	1713.9	1683.2
7.5°	1914.9	1911.8	1910.3	1893.4	1865.8	1850.4	1848.9	1819.7	1790.6	1738.4	1693.9
10°	1987.0	1983.9	1980.9	1957.8	1924.1	1901.1	1898.0	1861.2	1824.3	1759.9	1703.1
12.5°	2079.1	2072.9	2069.8	2042.2	1993.1	1968.6	1964.0	1914.9	1868.8	1790.6	1721.5
15°	2175.7	2171.1	2166.5	2140.4	2085.2	2053.0	2045.3	1983.9	1921.0	1830.5	1749.2
17.5°	2247.8	2243.2	2243.2	2220.2	2169.6	2132.8	2126.6	2053.0	1974.7	1867.3	1770.6
20°	2292.3	2287.7	2292.3	2278.5	2240.2	2209.5	2203.3	2122.0	2028.4	1901.1	1789.1
22.5°	2324.5	2319.9	2327.6	2321.5	2293.9	2275.4	2270.8	2191.1	2083.7	1936.4	1807.5
25°	2381.3	2381.3	2381.3	2370.6	2344.5	2338.4	2338.4	2269.3	2154.2	1982.4	1835.1
27.5°	2494.9	2488.7	2481.1	2450.4	2405.9	2404.3	2413.5	2349.1	2235.6	2042.2	1868.8
30°	2662.1	2659.0	2629.9	2565.4	2490.3	2482.6	2488.7	2435.0	2323.0	2105.1	1907.2
32.5°	2878.5	2867.7	2807.9	2711.2	2603.8	2568.5	2580.8	2524.0	2415.1	2169.6	1944.0
35°	3031.9	3035.0	2992.0	2904.5	2777.2	2683.6	2692.8	2623.7	2514.8	2241.7	1990.1
37.5°	3208.3	3219.1	3154.6	3088.7	2970.5	2810.9	2820.1	2726.5	2614.5	2332.2	2039.2
40°	3452.3	3430.8	3321.9	3243.6	3113.2	2944.4	2952.1	2841.6	2729.6	2418.1	2095.9
42.5°	3656.4	3618.0	3486.1	3386.3	3229.8	3085.6	3093.3	2965.9	2846.2	2513.3	2158.8
45°	3949.4	3843.6	3653.3	3604.2	3349.5	3223.7	3231.4	3097.9	2969.0	2614.5	2226.3
47.5°	4119.7	3951.0	3829.8	3803.7	3481.5	3366.4	3375.6	3237.5	3100.9	2729.6	2296.9
50°	4109.0	4000.1	3964.8	3900.3	3598.1	3499.9	3509.1	3381.7	3234.4	2843.2	2364.4
52.5°	4038.4	4058.4	4040.0	3932.6	3714.7	3628.7	3639.5	3524.4	3371.0	2949.0	2427.3
55°	4147.4	4161.2	4125.9	3984.7	3843.6	3757.6	3769.9	3674.8	3506.0	3042.6	2481.1
57.5°	4277.8	4228.7	4193.4	4076.8	3977.0	3897.3	3911.1	3828.2	3622.6	3117.8	2522.5
60°	4271.6	4168.8	4204.1	4082.9	4067.6	4026.1	4038.4	3954.0	3711.6	3173.0	2539.4
62.5°	3957.1	3901.9	4079.9	4038.4	4141.2	4141.2	4156.6	4030.8	3765.3	3196.1	2530.2
65°	3410.9	3413.9	3726.9	3898.8	4228.7	4299.3	4311.5	4078.3	3734.6	3128.5	2444.2
67.5°	2717.3	2737.3	3186.9	3544.4	4141.2	4406.7	4408.2	4121.3	3602.7	2938.3	2244.8
70°	1988.5	2003.9	2534.8	2969.0	3728.5	4168.8	4144.3	4000.1	3315.7	2606.9	1933.3
72.5°	1344.1	1357.9	1904.1	2280.1	3059.5	3550.5	3496.8	3535.2	2826.3	2142.0	1554.3
75°	903.7	920.6	1354.8	1631.0	2250.9	2695.9	2576.2	2677.4	2186.5	1621.8	1133.9
77.5°	569.2	580.0	860.8	1069.4	1537.4	1835.1	1715.4	1716.9	1259.7	873.0	609.1
80°	362.1	365.2	521.7	616.8	889.9	1103.2	975.8	793.3	567.7	463.4	363.6
82.5°	210.2	205.6	311.5	348.3	423.5	418.9	346.8	328.4	248.6	231.7	185.7
85°	84.4	78.3	136.6	127.4	128.9	136.6	101.3	101.3	81.3	62.9	46.0
87.5°	16.9	16.9	18.4	16.9	16.9	18.4	13.8	13.8	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°	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1669.4	1666.3	1658.6	1638.7	1628.0	1621.8	1612.6	1609.5	1608.0	1609.5	1614.1
5°	1674.0	1663.2	1641.8	1609.5	1588.1	1574.2	1558.9	1552.8	1548.2	1548.2	1552.8
7.5°	1677.1	1660.2	1623.3	1575.8	1545.1	1523.6	1505.2	1497.5	1496.0	1500.6	1502.1
10°	1678.6	1654.0	1601.9	1542.0	1502.1	1474.5	1456.1	1451.5	1456.1	1465.3	1466.8
12.5°	1689.3	1655.6	1589.6	1519.0	1471.4	1443.8	1430.0	1430.0	1442.3	1459.2	1460.7
15°	1707.7	1666.3	1583.5	1500.6	1451.5	1427.0	1422.3	1430.0	1448.4	1474.5	1477.6
17.5°	1721.5	1672.4	1569.6	1476.0	1425.4	1410.1	1417.7	1436.2	1462.2	1497.5	1500.6
20°	1730.8	1672.4	1549.7	1446.9	1399.3	1396.3	1417.7	1446.9	1474.5	1515.9	1520.5
22.5°	1740.0	1669.4	1526.7	1411.6	1370.2	1379.4	1419.3	1456.1	1483.7	1528.2	1535.9
25°	1756.8	1674.0	1503.7	1376.3	1339.5	1365.6	1417.7	1462.2	1491.4	1537.4	1549.7
27.5°	1779.9	1684.7	1486.8	1344.1	1308.8	1344.1	1407.0	1460.7	1491.4	1535.9	1549.7
30°	1804.4	1697.0	1466.8	1308.8	1273.5	1313.4	1384.0	1443.8	1479.1	1520.5	1537.4
32.5°	1830.5	1710.8	1450.0	1270.4	1230.6	1272.0	1350.2	1417.7	1456.1	1494.5	1512.9
35°	1865.8	1735.4	1440.8	1239.8	1192.2	1229.0	1307.3	1384.0	1425.4	1460.7	1482.2
37.5°	1908.7	1766.0	1436.2	1209.1	1150.8	1181.5	1261.2	1342.6	1387.1	1416.2	1436.2
40°	1957.8	1804.4	1434.6	1179.9	1109.3	1132.4	1213.7	1295.0	1338.0	1361.0	1377.9
42.5°	2013.1	1847.4	1431.6	1150.8	1067.9	1086.3	1167.6	1247.4	1284.3	1304.2	1319.5
45°	2071.4	1890.3	1425.4	1115.5	1023.4	1044.9	1120.1	1190.7	1229.0	1245.9	1262.8
47.5°	2129.7	1933.3	1413.1	1075.6	983.5	1003.5	1069.4	1130.8	1161.5	1176.9	1193.7
50°	2186.5	1971.6	1384.0	1029.6	942.1	960.5	1011.1	1052.6	1075.6	1087.9	1104.7
52.5°	2237.1	1997.7	1342.6	975.8	900.7	909.9	943.6	978.9	997.3	998.9	1014.2
55°	2280.1	2011.5	1282.7	920.6	856.2	857.7	876.1	903.7	911.4	905.3	916.0
57.5°	2304.6	2003.9	1216.7	863.8	810.1	804.0	817.8	831.6	833.2	817.8	828.6
60°	2310.7	1968.6	1130.8	807.1	764.1	747.2	751.8	748.8	745.7	739.6	748.8
62.5°	2280.1	1893.4	1035.7	751.8	715.0	688.9	687.4	685.9	690.5	692.0	693.5
65°	2168.0	1752.2	922.1	695.1	662.8	627.6	626.0	644.4	650.6	641.4	644.4
67.5°	1951.7	1535.9	797.9	629.1	596.9	566.2	578.5	589.2	599.9	596.9	599.9
70°	1644.8	1261.2	684.3	555.4	524.7	507.9	521.7	530.9	532.4	529.4	532.4
72.5°	1293.5	985.1	578.5	480.3	452.6	445.0	461.8	469.5	483.3	489.5	491.0
75°	934.4	727.3	474.1	398.9	375.9	375.9	391.3	405.1	417.3	409.7	405.1
77.5°	521.7	434.2	340.6	274.6	279.3	300.7	306.9	322.2	334.5	333.0	329.9
80°	316.1	271.6	230.2	178.0	176.5	193.3	233.2	259.3	265.4	251.6	250.1
82.5°	164.2	142.7	122.7	99.7	110.5	128.9	135.0	162.6	179.5	173.4	181.1
85°	41.4	39.9	44.5	46.0	56.8	62.9	69.0	81.3	53.7	26.1	26.1
87.5°	12.3	12.3	15.3	15.3	19.9	24.5	23.0	23.0	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)