

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: P799925

Luminaire Tested: **ARCH2-60-740-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

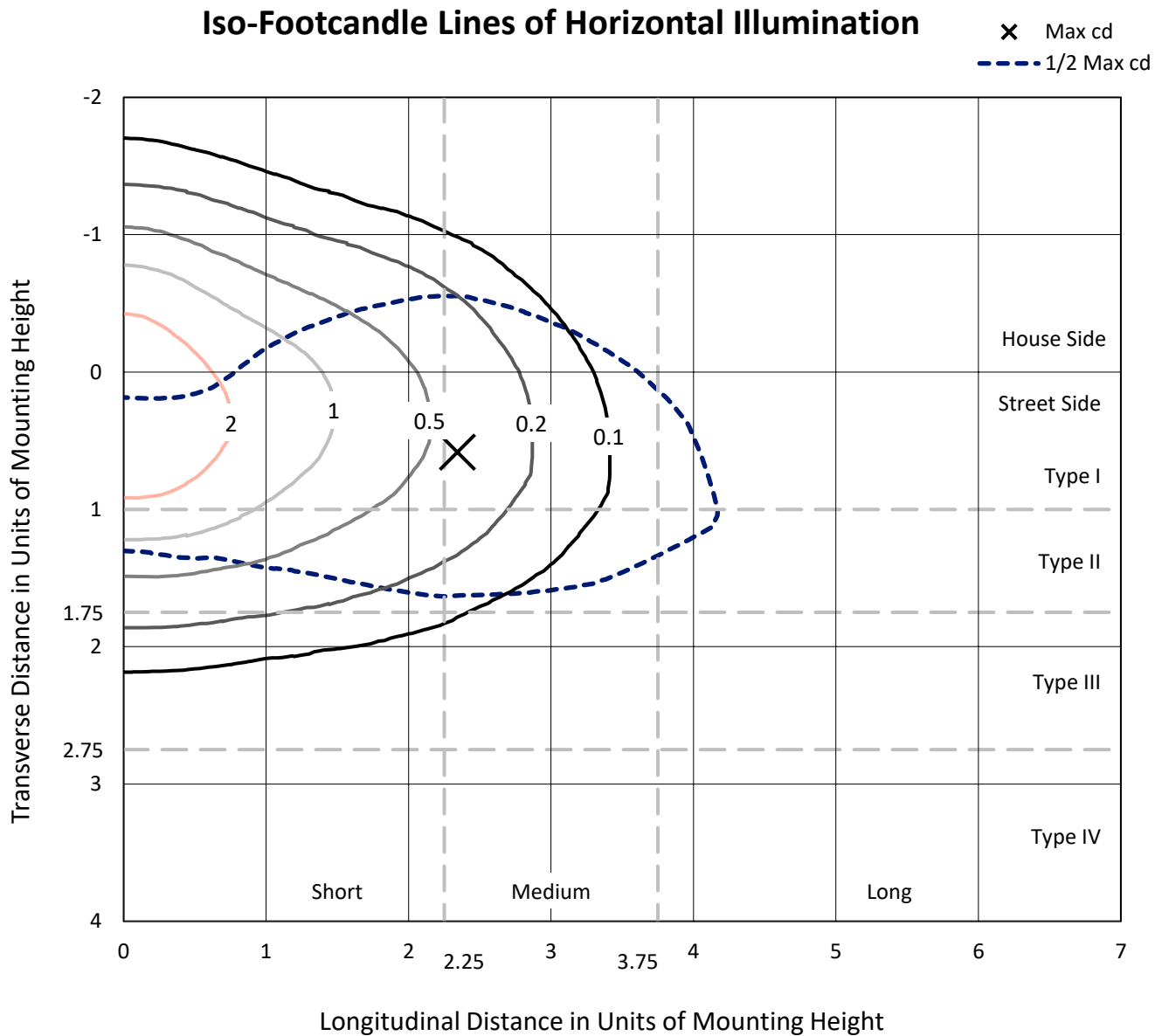
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9381 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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



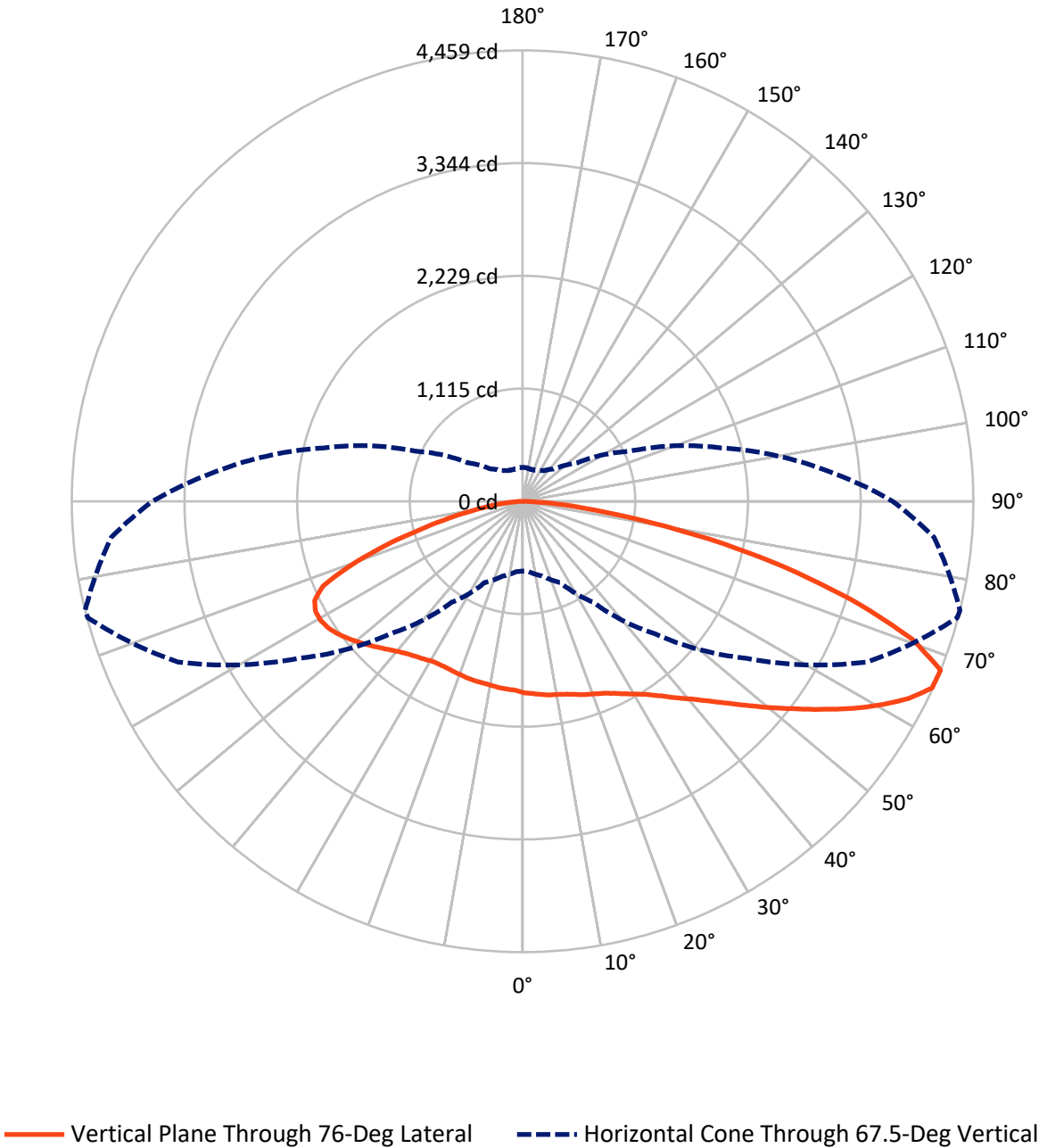
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Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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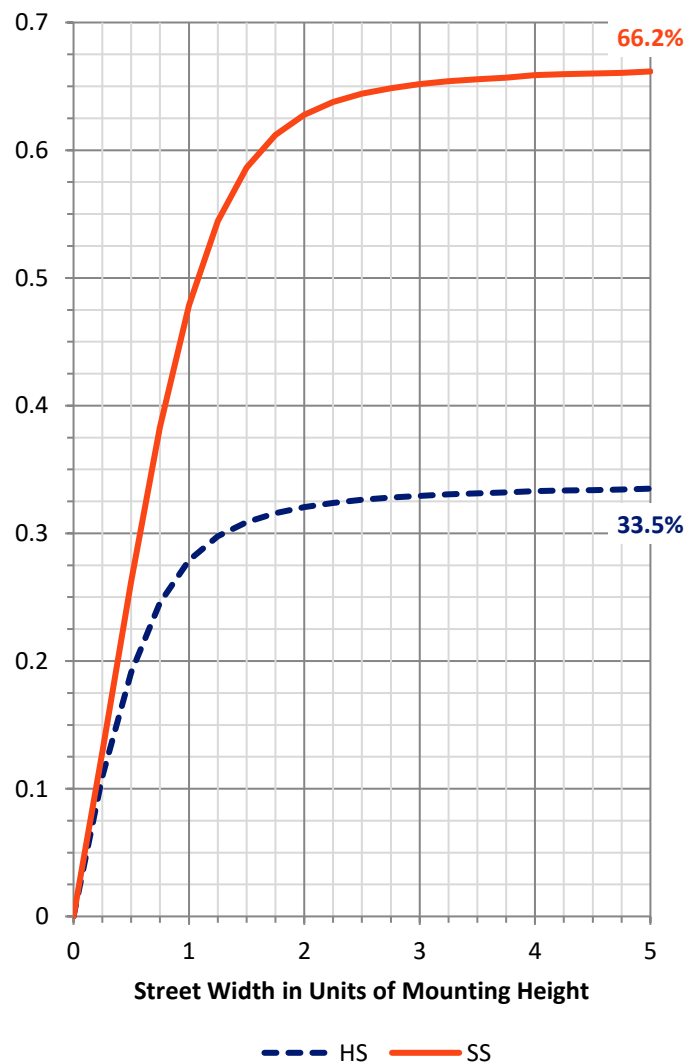
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3169.9	0.0	3169.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6211.1	0.0	6211.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	9381.0	0.0	9381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.9
10°-20°	558.6	6.0
20°-30°	949.1	10.1
30°-40°	1350.5	14.4
40°-50°	1705.6	18.2
50°-60°	1846.6	19.7
60°-70°	1717.6	18.3
70°-80°	922.5	9.8
80°-90°	147.8	1.6
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°	9381.0	100.0
0°-180°	9381.0	100.0

Coefficient of Utilization



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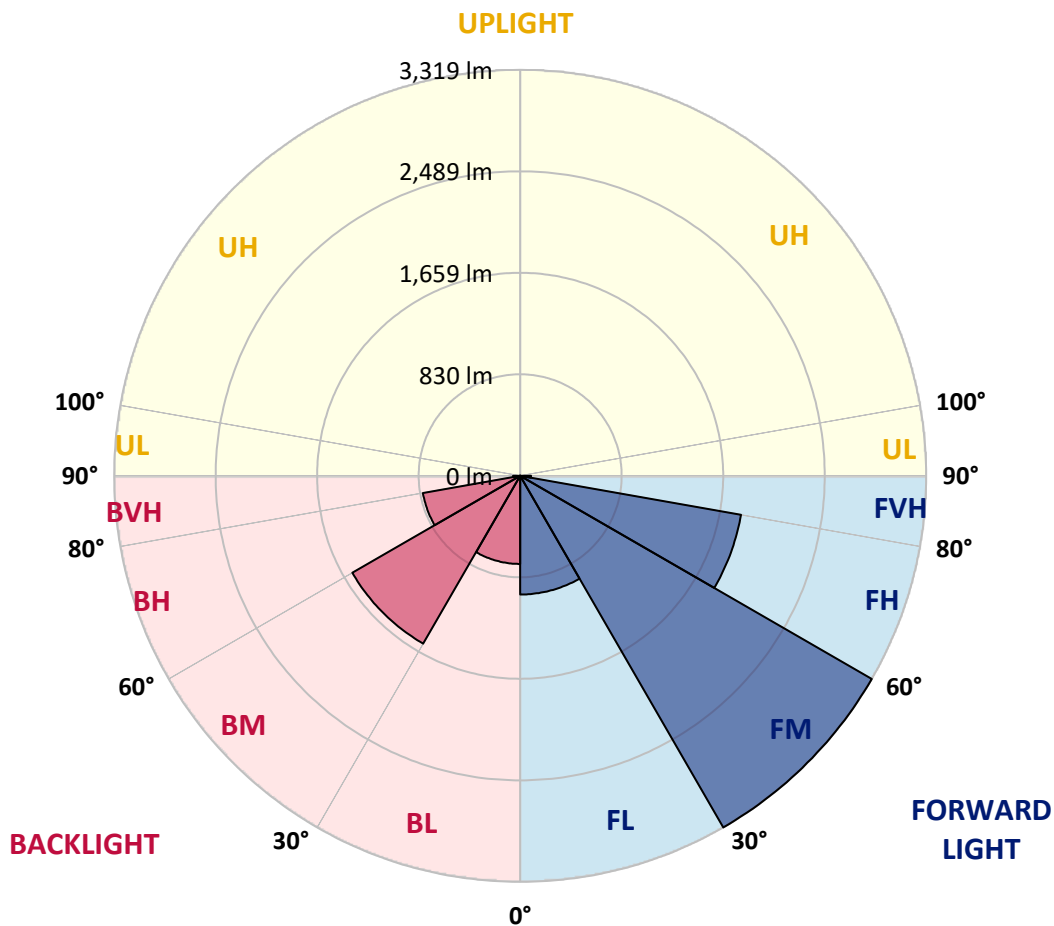
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	970.1	10.3			
FM	(30°-60°)	3318.6	35.4			
FH	(60°-80°)	1833.0	19.5			G2/5000
FVH	(80°-90°)	89.4	1.0			G1/100
BL	(0°-30°)	720.4	7.7	B2/1000		
BM	(30°-60°)	1584.0	16.9	B2/2500		
BH	(60°-80°)	807.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	58.4	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9
2.5°	1952.4	1948.9	1935.0	1936.7	1936.7	1935.0	1914.1	1905.4	1905.4	1903.6	1884.5
5°	2022.1	2016.9	2001.2	1997.7	1990.7	1982.0	1948.9	1929.8	1921.1	1919.3	1893.2
7.5°	2103.9	2097.0	2077.8	2067.4	2050.0	2027.3	1985.5	1955.9	1935.0	1933.3	1896.7
10°	2185.8	2178.8	2156.2	2137.0	2112.7	2076.1	2022.1	1978.5	1945.4	1942.0	1898.4
12.5°	2283.3	2276.4	2248.5	2224.1	2187.5	2138.8	2067.4	2008.2	1962.9	1957.6	1903.6
15°	2386.1	2375.6	2347.8	2319.9	2274.6	2211.9	2126.6	2048.2	1990.7	1982.0	1919.3
17.5°	2471.4	2457.5	2434.9	2407.0	2356.5	2283.3	2185.8	2088.3	2016.9	2009.9	1935.0
20°	2544.6	2534.1	2509.8	2483.6	2429.6	2349.5	2241.5	2128.3	2041.2	2032.5	1947.2
22.5°	2614.3	2600.3	2586.4	2567.2	2508.0	2419.2	2306.0	2177.1	2072.6	2062.1	1962.9
25°	2694.4	2678.7	2673.5	2663.0	2593.4	2502.8	2384.4	2238.1	2116.1	2103.9	1990.7
27.5°	2793.6	2776.2	2765.8	2765.8	2682.2	2588.1	2468.0	2309.5	2166.6	2156.2	2025.6
30°	2898.1	2877.2	2861.6	2861.6	2767.5	2673.5	2549.8	2380.9	2224.1	2211.9	2070.9
32.5°	2990.5	2969.6	2952.1	2950.4	2852.9	2758.8	2635.2	2459.2	2293.8	2278.1	2126.6
35°	3061.9	3042.7	3027.0	3030.5	2938.2	2845.9	2730.9	2563.7	2380.9	2363.5	2199.7
37.5°	3105.4	3098.4	3089.7	3101.9	3016.6	2929.5	2830.2	2664.8	2480.1	2464.5	2290.3
40°	3128.0	3122.8	3157.7	3173.3	3082.8	3004.4	2929.5	2769.3	2588.1	2570.7	2394.8
42.5°	3161.1	3204.7	3218.6	3215.1	3131.5	3061.9	3020.1	2882.5	2715.3	2699.6	2520.2
45°	3042.7	3032.3	3108.9	3150.7	3135.0	3098.4	3105.4	3018.3	2863.3	2847.6	2664.8
47.5°	2884.2	2870.3	2913.8	3016.6	3077.5	3112.4	3182.0	3159.4	3034.0	3020.1	2833.7
50°	2549.8	2569.0	2730.9	2868.5	2988.7	3108.9	3246.5	3310.9	3222.1	3208.2	3014.8
52.5°	2178.8	2198.0	2366.9	2683.9	2880.7	3082.8	3293.5	3462.4	3425.9	3410.2	3208.2
55°	1908.9	1950.7	2142.3	2372.2	2727.5	3000.9	3321.4	3617.5	3645.3	3631.4	3418.9
57.5°	1640.7	1672.0	1816.6	2020.3	2518.5	2858.1	3319.6	3762.0	3875.2	3861.3	3633.1
60°	1325.4	1365.5	1480.4	1699.9	2239.8	2687.4	3270.9	3875.2	4096.4	4086.0	3840.4
62.5°	1109.4	1121.6	1203.5	1393.3	1881.0	2471.4	3161.1	3936.2	4296.7	4289.7	4026.8
65°	893.5	895.2	970.1	1128.6	1534.4	2203.2	2974.8	3913.5	4448.2	4451.7	4160.9
67.5°	689.7	698.4	766.3	886.5	1219.2	1854.9	2708.3	3760.3	4450.0	4458.7	4084.2
70°	477.2	484.2	586.9	703.6	942.2	1478.7	2347.8	3354.5	4084.2	4091.2	3661.0
72.5°	336.1	339.6	449.4	562.6	736.7	1114.7	1771.3	2774.5	3481.6	3486.8	3079.3
75°	250.8	254.3	317.0	426.7	564.3	771.6	1210.5	2124.8	2781.5	2781.5	2431.4
77.5°	177.7	179.4	205.5	294.3	376.2	520.8	728.0	1391.6	2041.2	2044.7	1771.3
80°	120.2	121.9	134.1	198.6	235.1	282.2	395.4	729.8	1287.1	1292.3	1125.1
82.5°	62.7	66.2	74.9	101.0	118.4	156.8	203.8	371.0	712.3	726.3	675.8
85°	24.4	24.4	27.9	33.1	43.5	61.0	94.1	141.1	322.2	332.7	297.8
87.5°	8.7	8.7	10.5	10.5	12.2	13.9	15.7	20.9	36.6	36.6	34.8
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°	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9	1894.9
2.5°	1877.5	1877.5	1868.8	1872.3	1870.6	1867.1	1863.6	1868.8	1863.6	1851.4	1849.7
5°	1881.0	1877.5	1863.6	1861.8	1856.6	1849.7	1840.9	1844.4	1835.7	1825.3	1823.5
7.5°	1882.7	1875.8	1856.6	1849.7	1839.2	1825.3	1811.3	1811.3	1799.1	1788.7	1787.0
10°	1879.3	1870.6	1844.4	1830.5	1811.3	1790.4	1771.3	1766.1	1752.1	1739.9	1739.9
12.5°	1881.0	1868.8	1835.7	1813.1	1787.0	1760.8	1736.4	1729.5	1717.3	1705.1	1703.4
15°	1891.5	1874.0	1832.2	1802.6	1764.3	1734.7	1708.6	1703.4	1692.9	1684.2	1684.2
17.5°	1901.9	1879.3	1827.0	1785.2	1738.2	1705.1	1680.7	1680.7	1673.7	1668.5	1668.5
20°	1907.1	1881.0	1816.6	1760.8	1706.8	1672.0	1649.4	1652.8	1651.1	1649.4	1649.4
22.5°	1919.3	1884.5	1807.9	1738.2	1673.7	1637.2	1616.3	1621.5	1619.8	1619.8	1621.5
25°	1938.5	1893.2	1800.9	1717.3	1642.4	1602.3	1579.7	1583.2	1583.2	1583.2	1583.2
27.5°	1964.6	1910.6	1799.1	1698.1	1611.0	1565.8	1537.9	1537.9	1530.9	1532.7	1534.4
30°	2004.7	1943.7	1802.6	1680.7	1578.0	1520.5	1487.4	1482.2	1480.4	1483.9	1485.6
32.5°	2053.4	1989.0	1823.5	1668.5	1543.1	1470.0	1428.2	1426.4	1421.2	1421.2	1421.2
35°	2114.4	2032.5	1842.7	1666.8	1508.3	1416.0	1370.7	1365.5	1353.3	1348.1	1348.1
37.5°	2192.8	2100.5	1865.3	1654.6	1478.7	1363.7	1309.7	1292.3	1278.4	1276.6	1276.6
40°	2288.6	2177.1	1898.4	1640.7	1447.3	1309.7	1238.3	1208.7	1210.5	1217.4	1217.4
42.5°	2401.8	2271.1	1940.2	1633.7	1402.0	1254.0	1154.7	1119.9	1132.1	1139.1	1140.8
45°	2534.1	2382.6	1987.3	1625.0	1360.2	1191.3	1065.9	1022.4	1027.6	1029.3	1031.1
47.5°	2687.4	2506.3	2036.0	1618.0	1313.2	1112.9	968.4	910.9	909.2	898.7	902.2
50°	2847.6	2636.9	2086.5	1605.8	1255.7	1020.6	865.6	797.7	783.8	768.1	769.8
52.5°	3018.3	2771.0	2133.6	1586.7	1184.3	926.6	768.1	694.9	667.1	649.6	653.1
55°	3206.4	2908.6	2178.8	1557.1	1109.4	832.5	681.0	606.1	571.3	557.3	559.1
57.5°	3378.8	3041.0	2211.9	1520.5	1027.6	747.2	604.4	531.2	508.6	506.8	508.6
60°	3546.0	3152.4	2225.9	1470.0	944.0	668.8	533.0	477.2	461.5	470.3	472.0
62.5°	3687.1	3223.8	2218.9	1402.0	858.6	593.9	475.5	435.4	425.0	442.4	444.1
65°	3769.0	3246.5	2170.1	1304.5	766.3	520.8	421.5	377.9	372.7	383.2	388.4
67.5°	3661.0	3105.4	2037.8	1170.4	663.6	452.8	369.2	334.4	325.7	334.4	334.4
70°	3244.7	2690.9	1724.3	957.9	550.4	386.7	320.5	296.1	289.1	296.1	294.3
72.5°	2703.1	2238.1	1358.5	747.2	433.7	325.7	278.7	256.0	249.1	242.1	238.6
75°	2097.0	1699.9	985.8	548.6	327.4	261.3	233.4	212.5	195.1	202.0	198.6
77.5°	1536.2	1193.0	698.4	379.7	235.1	202.0	182.9	167.2	155.0	168.9	167.2
80°	989.3	771.6	466.8	254.3	162.0	141.1	134.1	125.4	137.6	179.4	182.9
82.5°	604.4	489.4	278.7	165.5	106.2	94.1	87.1	87.1	141.1	155.0	156.8
85°	270.0	259.5	151.5	85.3	59.2	54.0	48.8	62.7	57.5	41.8	43.5
87.5°	43.5	45.3	33.1	29.6	22.6	22.6	17.4	12.2	8.7	5.2	5.2
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)