

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: P799689

Luminaire Tested: **ARCH2-40-750-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799689
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: ARCH2-40-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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



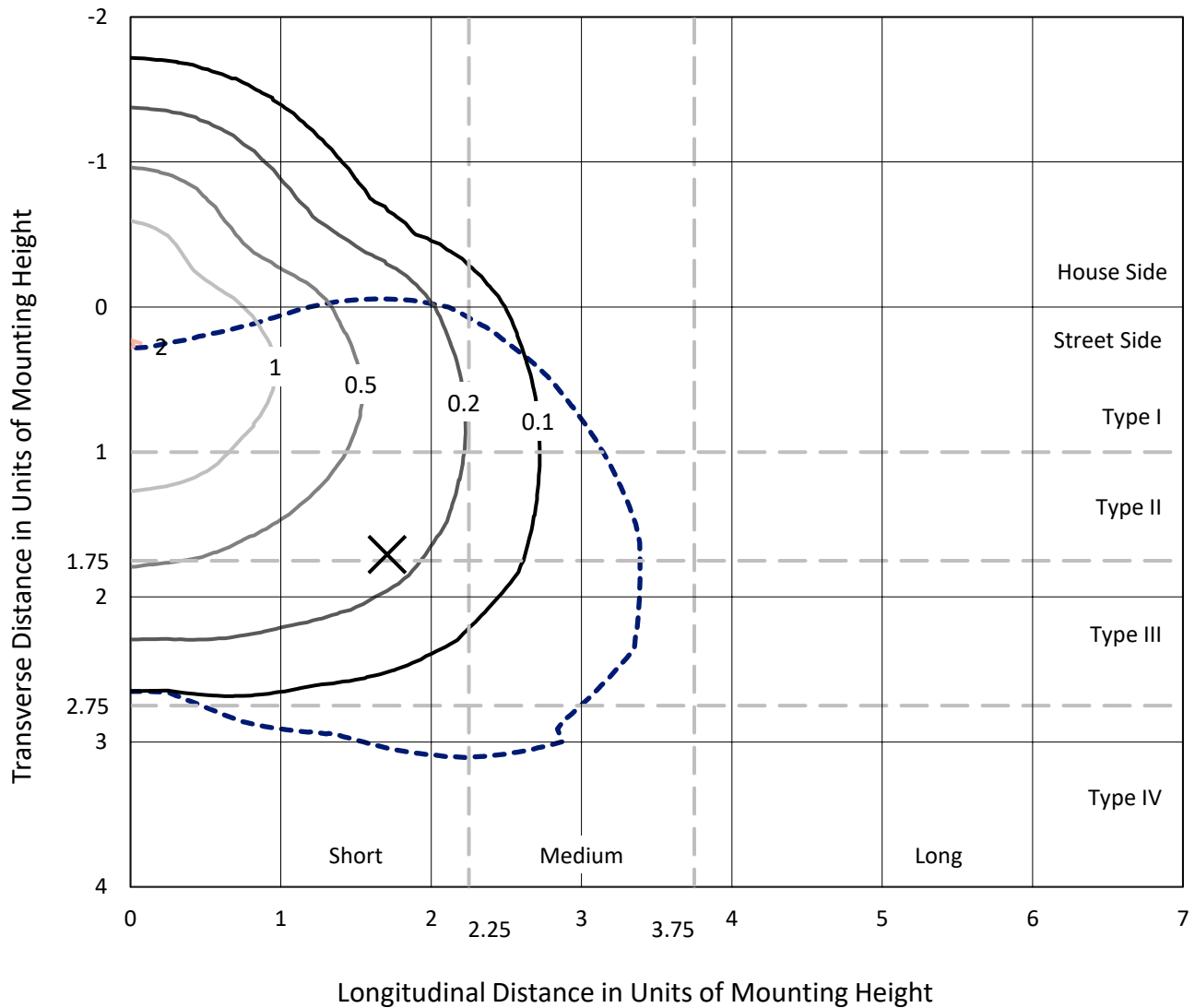
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



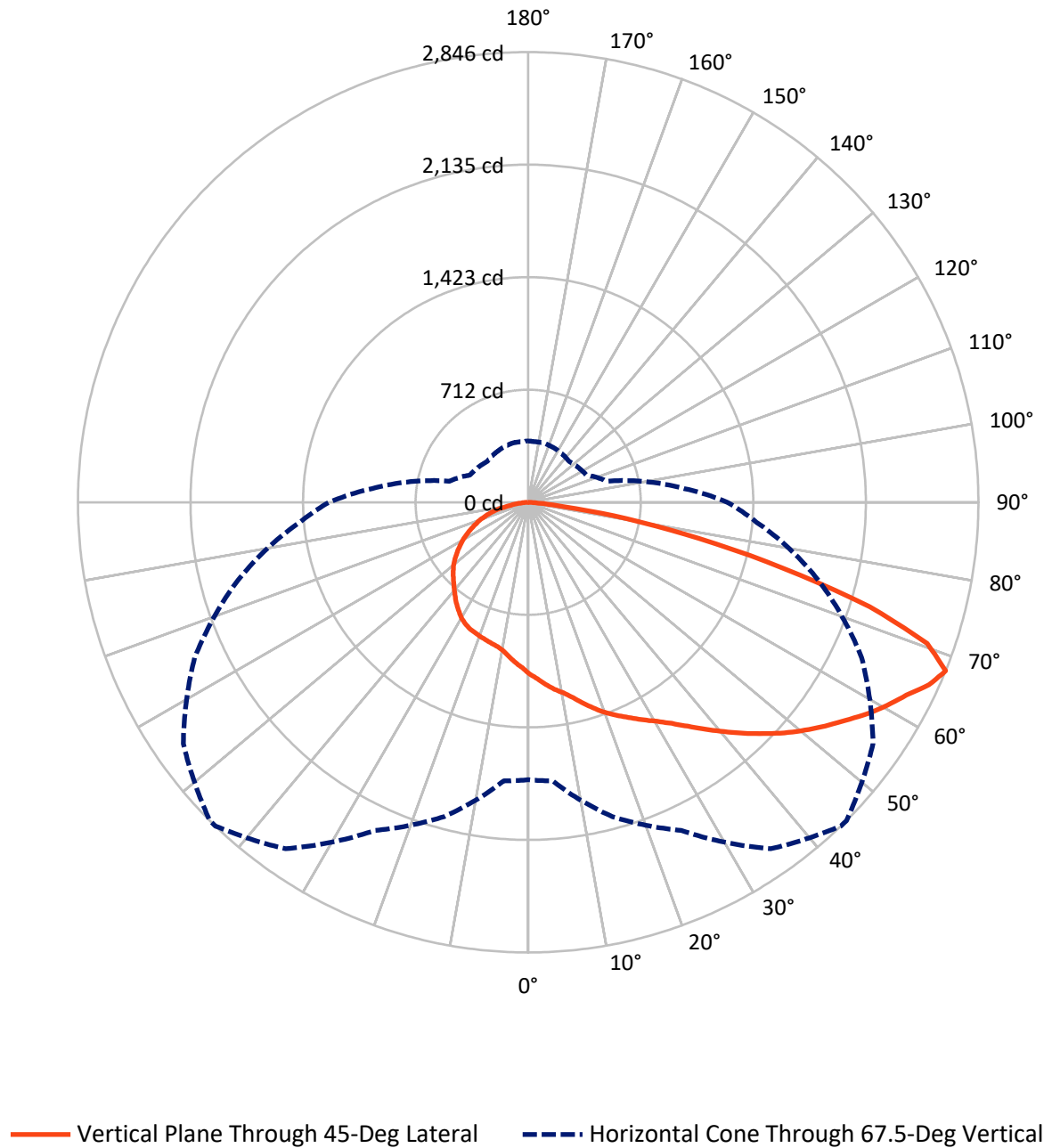
Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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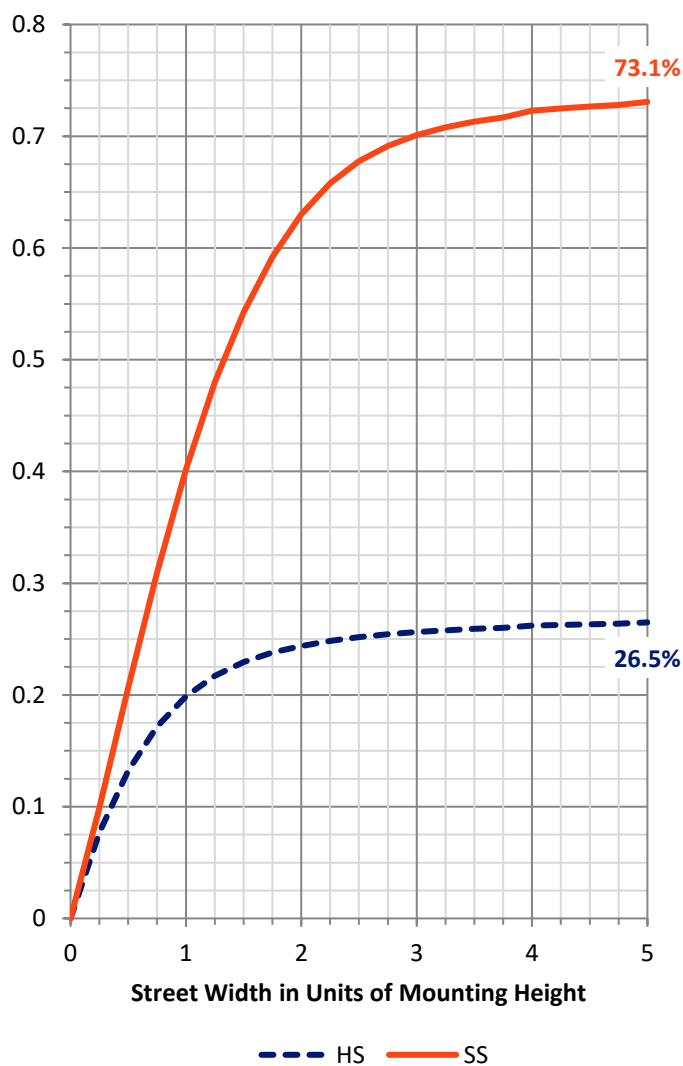
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.2	0.0	1739.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4770.9	0.0	4770.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	6510.0	0.0	6510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.6
10°-20°	321.1	4.9
20°-30°	554.3	8.5
30°-40°	817.4	12.6
40°-50°	1107.4	17.0
50°-60°	1353.5	20.8
60°-70°	1396.0	21.4
70°-80°	764.6	11.7
80°-90°	91.6	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°	6510.0	100.0
0°-180°	6510.0	100.0

Coefficient of Utilization



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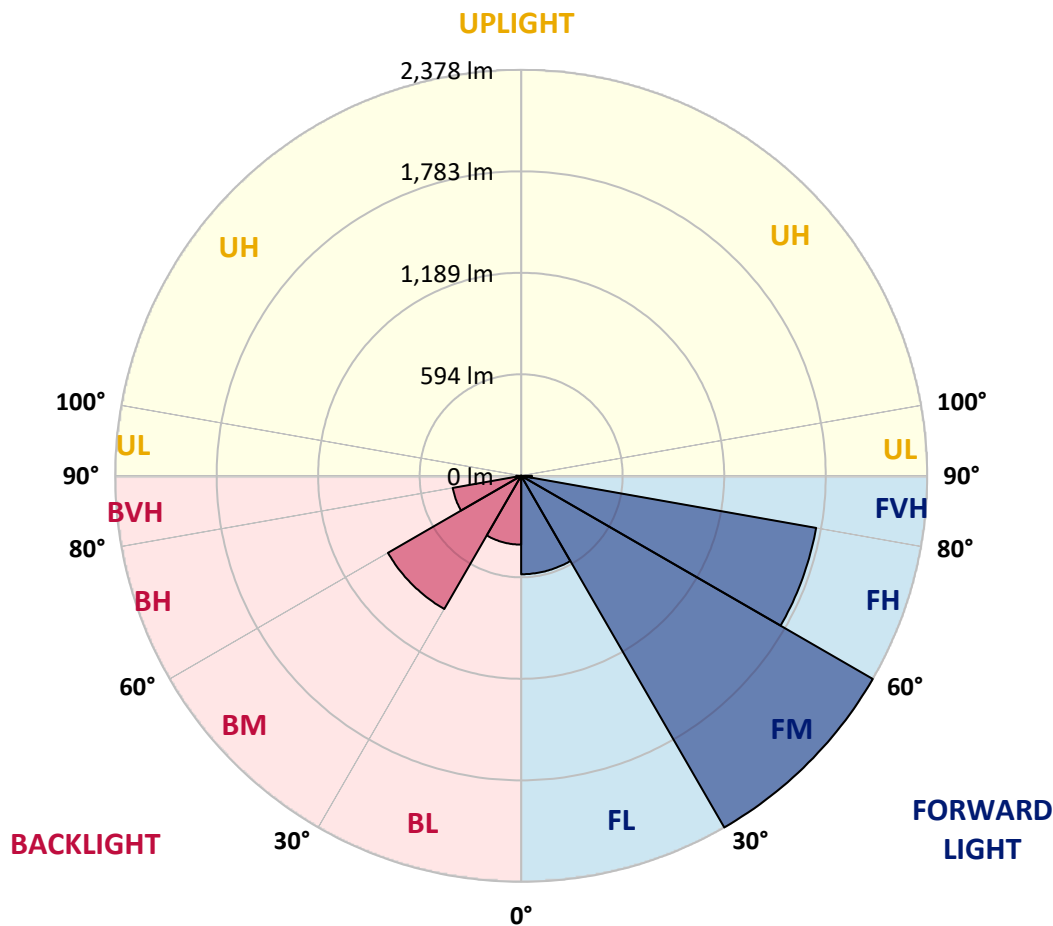
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.3	8.9			
FM	(30°-60°)	2377.5	36.5			
FH	(60°-80°)	1753.9	26.9			G1/1800
FVH	(80°-90°)	63.1	1.0			G1/100
BL	(0°-30°)	403.1	6.2	B1/500		
BM	(30°-60°)	900.9	13.8	B1/1000		
BH	(60°-80°)	406.7	6.2	B1/500		G1/500
BVH	(80°-90°)	28.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7
2.5°	1133.3	1132.3	1134.3	1127.4	1118.4	1117.4	1117.4	1111.5	1104.6	1090.7	1079.8
5°	1186.8	1184.8	1185.8	1175.9	1164.0	1158.1	1157.1	1144.2	1128.3	1106.5	1086.7
7.5°	1236.3	1234.3	1233.4	1222.5	1204.6	1194.7	1193.7	1174.9	1156.1	1122.4	1093.7
10°	1282.9	1280.9	1278.9	1264.1	1242.3	1227.4	1225.4	1201.6	1177.9	1136.3	1099.6
12.5°	1342.3	1338.4	1336.4	1318.5	1286.8	1271.0	1268.0	1236.3	1206.6	1156.1	1111.5
15°	1404.7	1401.8	1398.8	1381.9	1346.3	1325.5	1320.5	1280.9	1240.3	1181.8	1129.3
17.5°	1451.3	1448.3	1448.3	1433.5	1400.8	1377.0	1373.0	1325.5	1275.0	1205.6	1143.2
20°	1480.0	1477.0	1480.0	1471.1	1446.3	1426.5	1422.6	1370.1	1309.6	1227.4	1155.1
22.5°	1500.8	1497.9	1502.8	1498.8	1481.0	1469.1	1466.2	1414.6	1345.3	1250.2	1167.0
25°	1537.5	1537.5	1537.5	1530.5	1513.7	1509.7	1509.7	1465.2	1390.9	1279.9	1184.8
27.5°	1610.8	1606.8	1601.9	1582.1	1553.3	1552.3	1558.3	1516.7	1443.4	1318.5	1206.6
30°	1718.8	1716.8	1698.0	1656.4	1607.8	1602.9	1606.8	1572.2	1499.8	1359.2	1231.4
32.5°	1858.4	1851.5	1812.9	1750.5	1681.1	1658.3	1666.3	1629.6	1559.3	1400.8	1255.1
35°	1957.5	1959.5	1931.8	1875.3	1793.1	1732.6	1738.6	1694.0	1623.7	1447.3	1284.9
37.5°	2071.4	2078.4	2036.8	1994.2	1917.9	1814.9	1820.8	1760.4	1688.1	1505.8	1316.6
40°	2228.9	2215.1	2144.7	2094.2	2010.0	1901.0	1906.0	1834.7	1762.4	1561.3	1353.2
42.5°	2360.7	2335.9	2250.7	2186.3	2085.3	1992.2	1997.1	1914.9	1837.6	1622.7	1393.8
45°	2549.9	2481.6	2358.7	2327.0	2162.6	2081.3	2086.3	2000.1	1916.9	1688.1	1437.4
47.5°	2659.9	2550.9	2472.6	2455.8	2247.8	2173.5	2179.4	2090.3	2002.1	1762.4	1483.0
50°	2652.9	2582.6	2559.8	2518.2	2323.1	2259.7	2265.6	2183.4	2088.3	1835.7	1526.6
52.5°	2607.4	2620.3	2608.4	2539.0	2398.3	2342.9	2349.8	2275.5	2176.4	1904.0	1567.2
55°	2677.7	2686.6	2663.8	2572.7	2481.6	2426.1	2434.0	2372.6	2263.6	1964.4	1601.9
57.5°	2761.9	2730.2	2707.4	2632.1	2567.7	2516.2	2525.1	2471.7	2338.9	2013.0	1628.6
60°	2757.9	2691.6	2714.4	2636.1	2626.2	2599.4	2607.4	2552.9	2396.4	2048.6	1639.5
62.5°	2554.9	2519.2	2634.1	2607.4	2673.7	2673.7	2683.7	2602.4	2431.0	2063.5	1633.6
65°	2202.2	2204.2	2406.3	2517.2	2730.2	2775.8	2783.7	2633.1	2411.2	2019.9	1578.1
67.5°	1754.4	1767.3	2057.6	2288.4	2673.7	2845.1	2846.1	2660.9	2326.0	1897.1	1449.3
70°	1283.9	1293.8	1636.5	1916.9	2407.3	2691.6	2675.7	2582.6	2140.8	1683.1	1248.2
72.5°	867.8	876.7	1229.4	1472.1	1975.3	2292.3	2257.7	2282.4	1824.8	1382.9	1003.5
75°	583.5	594.4	874.7	1053.1	1453.3	1740.6	1663.3	1728.7	1411.7	1047.1	732.1
77.5°	367.5	374.5	555.8	690.5	992.6	1184.8	1107.5	1108.5	813.3	563.7	393.3
80°	233.8	235.8	336.8	398.2	574.6	712.3	630.0	512.2	366.5	299.2	234.8
82.5°	135.7	132.7	201.1	224.9	273.4	270.4	223.9	212.0	160.5	149.6	119.9
85°	54.5	50.5	88.2	82.2	83.2	88.2	65.4	65.4	52.5	40.6	29.7
87.5°	10.9	10.9	11.9	10.9	10.9	11.9	8.9	8.9	7.9	7.9	7.9
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°	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7	1085.7
2.5°	1077.8	1075.8	1070.9	1058.0	1051.1	1047.1	1041.2	1039.2	1038.2	1039.2	1042.2
5°	1080.8	1073.9	1060.0	1039.2	1025.3	1016.4	1006.5	1002.5	999.6	999.6	1002.5
7.5°	1082.8	1071.9	1048.1	1017.4	997.6	983.7	971.8	966.9	965.9	968.8	969.8
10°	1083.8	1067.9	1034.2	995.6	969.8	952.0	940.1	937.1	940.1	946.1	947.1
12.5°	1090.7	1068.9	1026.3	980.7	950.0	932.2	923.3	923.3	931.2	942.1	943.1
15°	1102.6	1075.8	1022.3	968.8	937.1	921.3	918.3	923.3	935.2	952.0	954.0
17.5°	1111.5	1079.8	1013.4	953.0	920.3	910.4	915.4	927.2	944.1	966.9	968.8
20°	1117.4	1079.8	1000.5	934.2	903.5	901.5	915.4	934.2	952.0	978.8	981.7
22.5°	1123.4	1077.8	985.7	911.4	884.6	890.6	916.3	940.1	958.0	986.7	991.6
25°	1134.3	1080.8	970.8	888.6	864.8	881.7	915.4	944.1	962.9	992.6	1000.5
27.5°	1149.1	1087.7	959.9	867.8	845.0	867.8	908.4	943.1	962.9	991.6	1000.5
30°	1165.0	1095.7	947.1	845.0	822.2	848.0	893.6	932.2	955.0	981.7	992.6
32.5°	1181.8	1104.6	936.2	820.3	794.5	821.2	871.8	915.4	940.1	964.9	976.8
35°	1204.6	1120.4	930.2	800.4	769.7	793.5	844.0	893.6	920.3	943.1	957.0
37.5°	1232.4	1140.2	927.2	780.6	743.0	762.8	814.3	866.8	895.5	914.4	927.2
40°	1264.1	1165.0	926.3	761.8	716.2	731.1	783.6	836.1	863.8	878.7	889.6
42.5°	1299.7	1192.7	924.3	743.0	689.5	701.4	753.9	805.4	829.2	842.0	852.0
45°	1337.4	1220.5	920.3	720.2	660.8	674.6	723.2	768.7	793.5	804.4	815.3
47.5°	1375.0	1248.2	912.4	694.4	635.0	647.9	690.5	730.1	749.9	759.8	770.7
50°	1411.7	1273.0	893.6	664.7	608.3	620.1	652.8	679.6	694.4	702.4	713.3
52.5°	1444.4	1289.8	866.8	630.0	581.5	587.5	609.2	632.0	643.9	644.9	654.8
55°	1472.1	1298.7	828.2	594.4	552.8	553.8	565.7	583.5	588.4	584.5	591.4
57.5°	1487.9	1293.8	785.6	557.7	523.1	519.1	528.0	536.9	537.9	528.0	534.9
60°	1491.9	1271.0	730.1	521.1	493.3	482.4	485.4	483.4	481.5	477.5	483.4
62.5°	1472.1	1222.5	668.7	485.4	461.6	444.8	443.8	442.8	445.8	446.8	447.8
65°	1399.8	1131.3	595.4	448.8	428.0	405.2	404.2	416.1	420.0	414.1	416.1
67.5°	1260.1	991.6	515.1	406.2	385.4	365.5	373.5	380.4	387.3	385.4	387.3
70°	1062.0	814.3	441.8	358.6	338.8	327.9	336.8	342.8	343.8	341.8	343.8
72.5°	835.1	636.0	373.5	310.1	292.2	287.3	298.2	303.1	312.1	316.0	317.0
75°	603.3	469.6	306.1	257.6	242.7	242.7	252.6	261.5	269.5	264.5	261.5
77.5°	336.8	280.4	219.9	177.3	180.3	194.2	198.1	208.0	216.0	215.0	213.0
80°	204.1	175.3	148.6	114.9	113.9	124.8	150.6	167.4	171.4	162.5	161.5
82.5°	106.0	92.1	79.3	64.4	71.3	83.2	87.2	105.0	115.9	111.9	116.9
85°	26.7	25.8	28.7	29.7	36.7	40.6	44.6	52.5	34.7	16.8	16.8
87.5°	7.9	7.9	9.9	9.9	12.9	15.9	14.9	14.9	7.9	1.0	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)