

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: P799033

Luminaire Tested: **ARCH1-50-740-U-T4W**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799033  
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: ARCH1-50-740-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6571 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

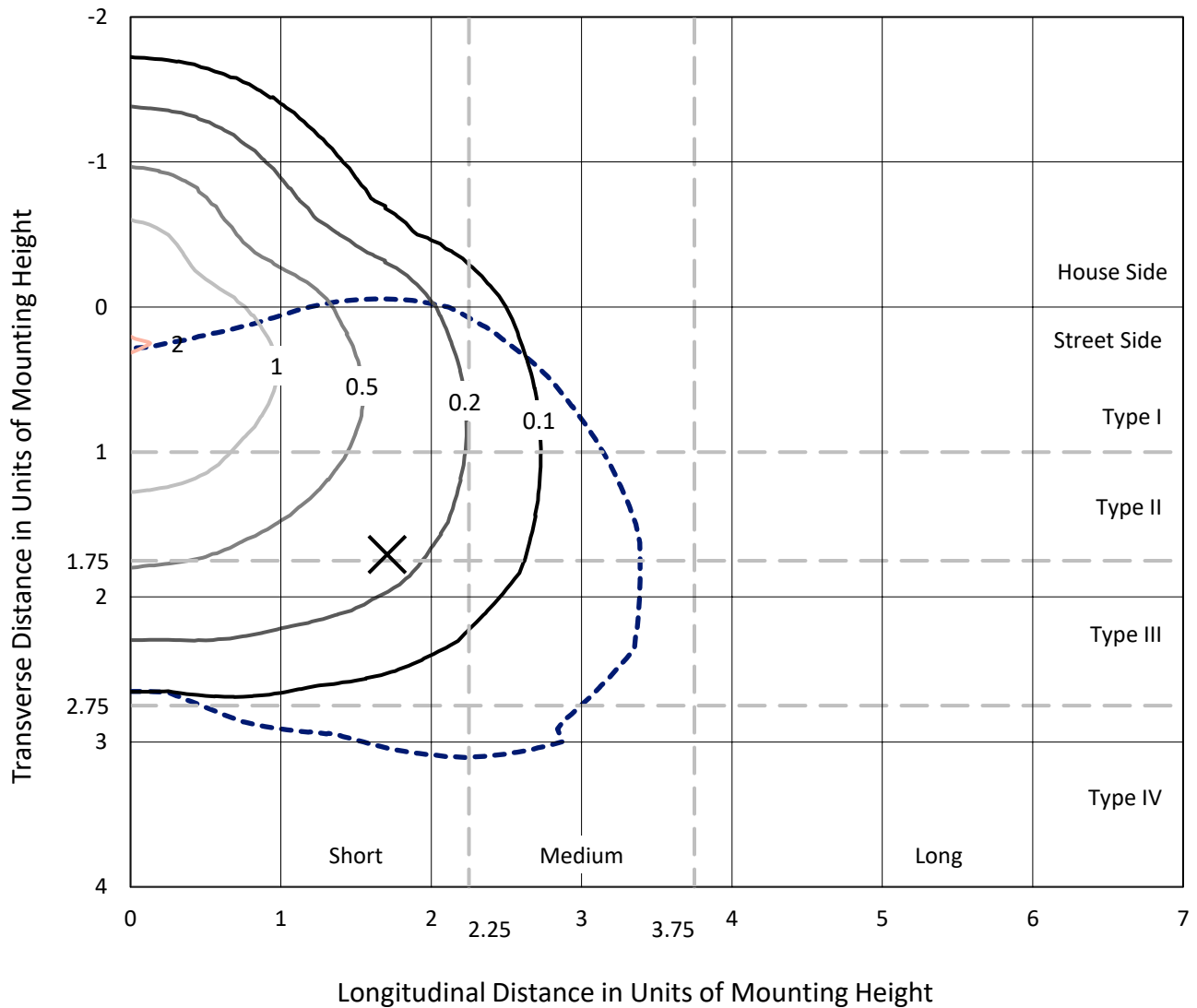
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

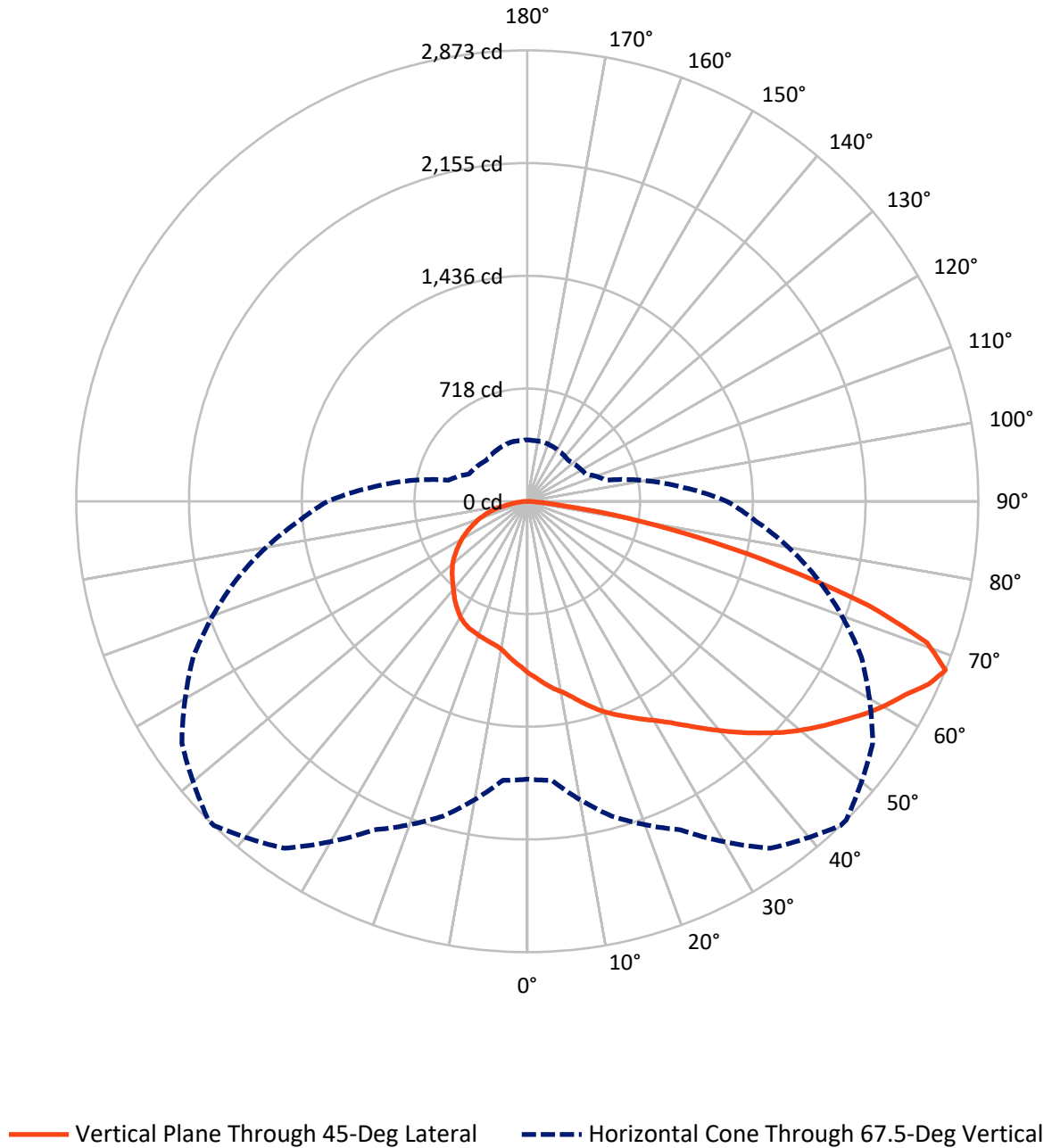
✕ Max cd  
 - - - 1/2 Max cd



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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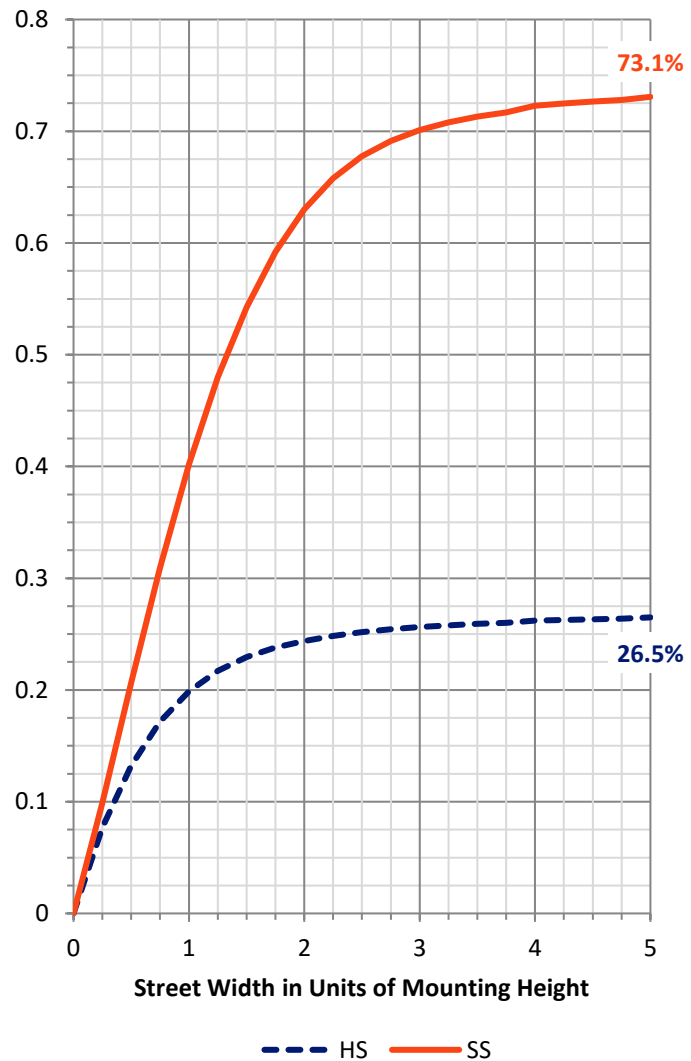
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1755.5	0.0	1755.5
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	4815.6	0.0	4815.6
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	6571.0	0.0	6571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.6
10°-20°	324.1	4.9
20°-30°	559.5	8.5
30°-40°	825.1	12.6
40°-50°	1117.8	17.0
50°-60°	1366.2	20.8
60°-70°	1409.1	21.4
70°-80°	771.8	11.7
80°-90°	92.5	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°	6571.0	100.0
0°-180°	6571.0	100.0

**Coefficient of Utilization**



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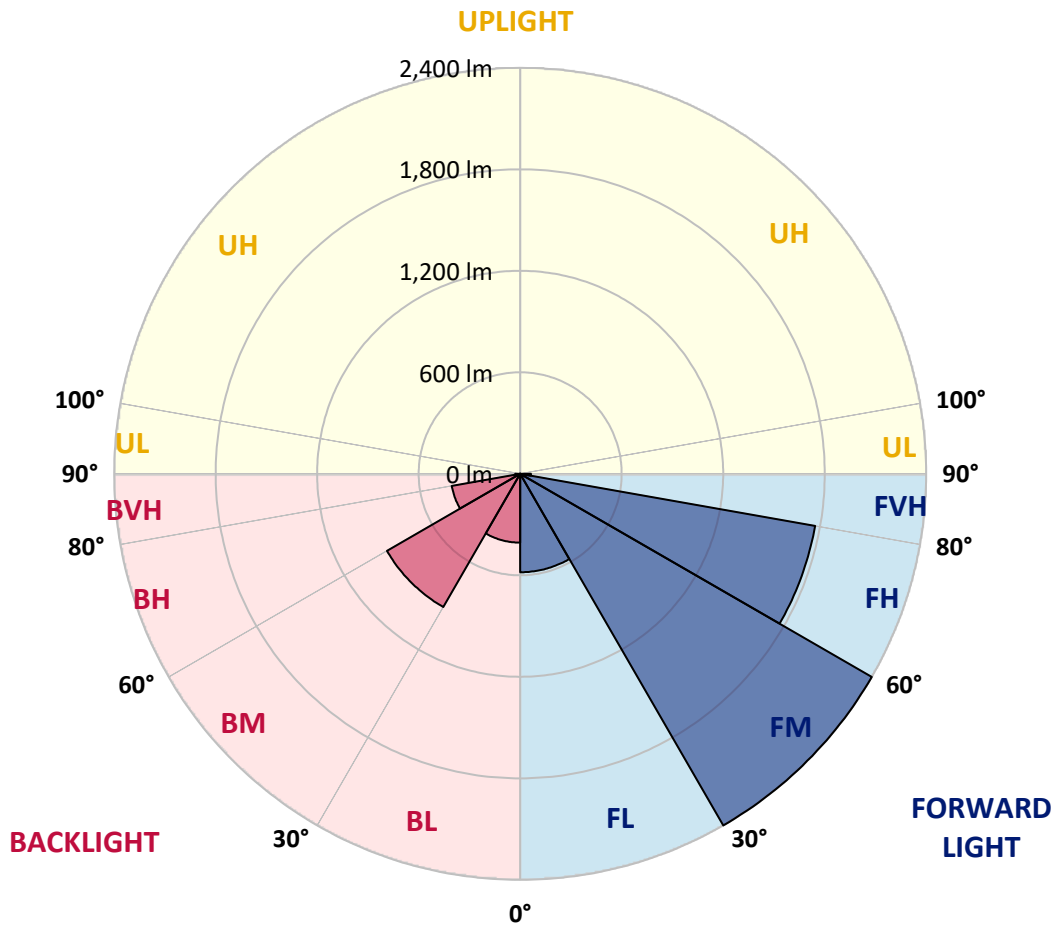
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.7	8.9			
FM (30°-60°)	2399.8	36.5			
FH (60°-80°)	1770.3	26.9			G1/1800
FVH (80°-90°)	63.7	1.0			G1/100
BL (0°-30°)	406.8	6.2	B1/500		
BM (30°-60°)	909.3	13.8	B1/1000		
BH (60°-80°)	410.5	6.2	B1/500		G1/500
BVH (80°-90°)	28.8	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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1143.9	1142.9	1144.9	1137.9	1128.9	1127.9	1127.9	1121.9	1114.9	1100.9	1089.9
5°	1197.9	1195.9	1196.9	1186.9	1174.9	1168.9	1167.9	1154.9	1138.9	1116.9	1096.9
7.5°	1247.9	1245.9	1244.9	1233.9	1215.9	1205.9	1204.9	1185.9	1166.9	1132.9	1103.9
10°	1294.9	1292.9	1290.9	1275.9	1253.9	1238.9	1236.9	1212.9	1188.9	1146.9	1109.9
12.5°	1354.9	1350.9	1348.9	1330.9	1298.9	1282.9	1279.9	1247.9	1217.9	1166.9	1121.9
15°	1417.9	1414.9	1411.9	1394.9	1358.9	1337.9	1332.9	1292.9	1251.9	1192.9	1139.9
17.5°	1464.9	1461.9	1461.9	1446.9	1413.9	1389.9	1385.9	1337.9	1286.9	1216.9	1153.9
20°	1493.9	1490.9	1493.9	1484.9	1459.9	1439.9	1435.9	1382.9	1321.9	1238.9	1165.9
22.5°	1514.9	1511.9	1516.9	1512.9	1494.9	1482.9	1479.9	1427.9	1357.9	1261.9	1177.9
25°	1551.9	1551.9	1551.9	1544.9	1527.9	1523.9	1523.9	1478.9	1403.9	1291.9	1195.9
27.5°	1625.9	1621.9	1616.9	1596.9	1567.9	1566.9	1572.9	1530.9	1456.9	1330.9	1217.9
30°	1734.9	1732.9	1713.9	1671.9	1622.9	1617.9	1621.9	1586.9	1513.9	1371.9	1242.9
32.5°	1875.9	1868.9	1829.9	1766.9	1696.9	1673.9	1681.9	1644.9	1573.9	1413.9	1266.9
35°	1975.9	1977.9	1949.9	1892.9	1809.9	1748.9	1754.9	1709.9	1638.9	1460.9	1296.9
37.5°	2090.8	2097.8	2055.8	2012.8	1935.9	1831.9	1837.9	1776.9	1703.9	1519.9	1328.9
40°	2249.8	2235.8	2164.8	2113.8	2028.8	1918.9	1923.9	1851.9	1778.9	1575.9	1365.9
42.5°	2382.8	2357.8	2271.8	2206.8	2104.8	2010.8	2015.8	1932.9	1854.9	1637.9	1406.9
45°	2573.8	2504.8	2380.8	2348.8	2182.8	2100.8	2105.8	2018.8	1934.9	1703.9	1450.9
47.5°	2684.8	2574.8	2495.8	2478.8	2268.8	2193.8	2199.8	2109.8	2020.8	1778.9	1496.9
50°	2677.8	2606.8	2583.8	2541.8	2344.8	2280.8	2286.8	2203.8	2107.8	1852.9	1540.9
52.5°	2631.8	2644.8	2632.8	2562.8	2420.8	2364.8	2371.8	2296.8	2196.8	1921.9	1581.9
55°	2702.8	2711.8	2688.8	2596.8	2504.8	2448.8	2456.8	2394.8	2284.8	1982.9	1616.9
57.5°	2787.8	2755.8	2732.8	2656.8	2591.8	2539.8	2548.8	2494.8	2360.8	2031.8	1643.9
60°	2783.8	2716.8	2739.8	2660.8	2650.8	2623.8	2631.8	2576.8	2418.8	2067.8	1654.9
62.5°	2578.8	2542.8	2658.8	2631.8	2698.8	2698.8	2708.8	2626.8	2453.8	2082.8	1648.9
65°	2222.8	2224.8	2428.8	2540.8	2755.8	2801.8	2809.8	2657.8	2433.8	2038.8	1592.9
67.5°	1770.9	1783.9	2076.8	2309.8	2698.8	2871.8	2872.8	2685.8	2347.8	1914.9	1462.9
70°	1295.9	1305.9	1651.9	1934.9	2429.8	2716.8	2700.8	2606.8	2160.8	1698.9	1259.9
72.5°	875.9	884.9	1240.9	1485.9	1993.9	2313.8	2278.8	2303.8	1841.9	1395.9	1012.9
75°	589.0	600.0	882.9	1062.9	1466.9	1756.9	1678.9	1744.9	1424.9	1056.9	738.9
77.5°	371.0	378.0	561.0	696.9	1001.9	1195.9	1117.9	1118.9	820.9	569.0	397.0
80°	236.0	238.0	340.0	402.0	580.0	718.9	636.0	517.0	370.0	302.0	237.0
82.5°	137.0	134.0	203.0	227.0	276.0	273.0	226.0	214.0	162.0	151.0	121.0
85°	55.0	51.0	89.0	83.0	84.0	89.0	66.0	66.0	53.0	41.0	30.0
87.5°	11.0	11.0	12.0	11.0	11.0	12.0	9.0	9.0	8.0	8.0	8.0
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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1087.9	1085.9	1080.9	1067.9	1060.9	1056.9	1050.9	1048.9	1047.9	1048.9	1051.9
5°	1090.9	1083.9	1069.9	1048.9	1034.9	1025.9	1015.9	1011.9	1008.9	1008.9	1011.9
7.5°	1092.9	1081.9	1057.9	1026.9	1006.9	992.9	980.9	975.9	974.9	977.9	978.9
10°	1093.9	1077.9	1043.9	1004.9	978.9	960.9	948.9	945.9	948.9	954.9	955.9
12.5°	1100.9	1078.9	1035.9	989.9	958.9	940.9	931.9	931.9	939.9	950.9	951.9
15°	1112.9	1085.9	1031.9	977.9	945.9	929.9	926.9	931.9	943.9	960.9	962.9
17.5°	1121.9	1089.9	1022.9	961.9	928.9	918.9	923.9	935.9	952.9	975.9	977.9
20°	1127.9	1089.9	1009.9	942.9	911.9	909.9	923.9	942.9	960.9	987.9	990.9
22.5°	1133.9	1087.9	994.9	919.9	892.9	898.9	924.9	948.9	966.9	995.9	1000.9
25°	1144.9	1090.9	979.9	896.9	872.9	889.9	923.9	952.9	971.9	1001.9	1009.9
27.5°	1159.9	1097.9	968.9	875.9	852.9	875.9	916.9	951.9	971.9	1000.9	1009.9
30°	1175.9	1105.9	955.9	852.9	829.9	855.9	901.9	940.9	963.9	990.9	1001.9
32.5°	1192.9	1114.9	944.9	827.9	801.9	828.9	879.9	923.9	948.9	973.9	985.9
35°	1215.9	1130.9	938.9	807.9	776.9	800.9	851.9	901.9	928.9	951.9	965.9
37.5°	1243.9	1150.9	935.9	787.9	749.9	769.9	821.9	874.9	903.9	922.9	935.9
40°	1275.9	1175.9	934.9	768.9	722.9	737.9	790.9	843.9	871.9	886.9	897.9
42.5°	1311.9	1203.9	932.9	749.9	695.9	707.9	760.9	812.9	836.9	849.9	859.9
45°	1349.9	1231.9	928.9	726.9	667.0	680.9	729.9	775.9	800.9	811.9	822.9
47.5°	1387.9	1259.9	920.9	700.9	641.0	654.0	696.9	736.9	756.9	766.9	777.9
50°	1424.9	1284.9	901.9	670.9	614.0	626.0	659.0	685.9	700.9	708.9	719.9
52.5°	1457.9	1301.9	874.9	636.0	587.0	593.0	615.0	638.0	650.0	651.0	661.0
55°	1485.9	1310.9	835.9	600.0	558.0	559.0	571.0	589.0	594.0	590.0	597.0
57.5°	1501.9	1305.9	792.9	563.0	528.0	524.0	533.0	542.0	543.0	533.0	540.0
60°	1505.9	1282.9	736.9	526.0	498.0	487.0	490.0	488.0	486.0	482.0	488.0
62.5°	1485.9	1233.9	674.9	490.0	466.0	449.0	448.0	447.0	450.0	451.0	452.0
65°	1412.9	1141.9	601.0	453.0	432.0	409.0	408.0	420.0	424.0	418.0	420.0
67.5°	1271.9	1000.9	520.0	410.0	389.0	369.0	377.0	384.0	391.0	389.0	391.0
70°	1071.9	821.9	446.0	362.0	342.0	331.0	340.0	346.0	347.0	345.0	347.0
72.5°	842.9	642.0	377.0	313.0	295.0	290.0	301.0	306.0	315.0	319.0	320.0
75°	609.0	474.0	309.0	260.0	245.0	245.0	255.0	264.0	272.0	267.0	264.0
77.5°	340.0	283.0	222.0	179.0	182.0	196.0	200.0	210.0	218.0	217.0	215.0
80°	206.0	177.0	150.0	116.0	115.0	126.0	152.0	169.0	173.0	164.0	163.0
82.5°	107.0	93.0	80.0	65.0	72.0	84.0	88.0	106.0	117.0	113.0	118.0
85°	27.0	26.0	29.0	30.0	37.0	41.0	45.0	53.0	35.0	17.0	17.0
87.5°	8.0	8.0	10.0	10.0	13.0	16.0	15.0	15.0	8.0	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)