

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: LUMARK

Report Number: P395133

Luminaire Tested: **LAS100S-T4-Switch-9**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS100S-T4-Switch-9  
Description: AREA SITE LARGE HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 9  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8134 lumens  
Efficiency: N/A  
Efficacy: 169.5 lumens/watt  
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G2

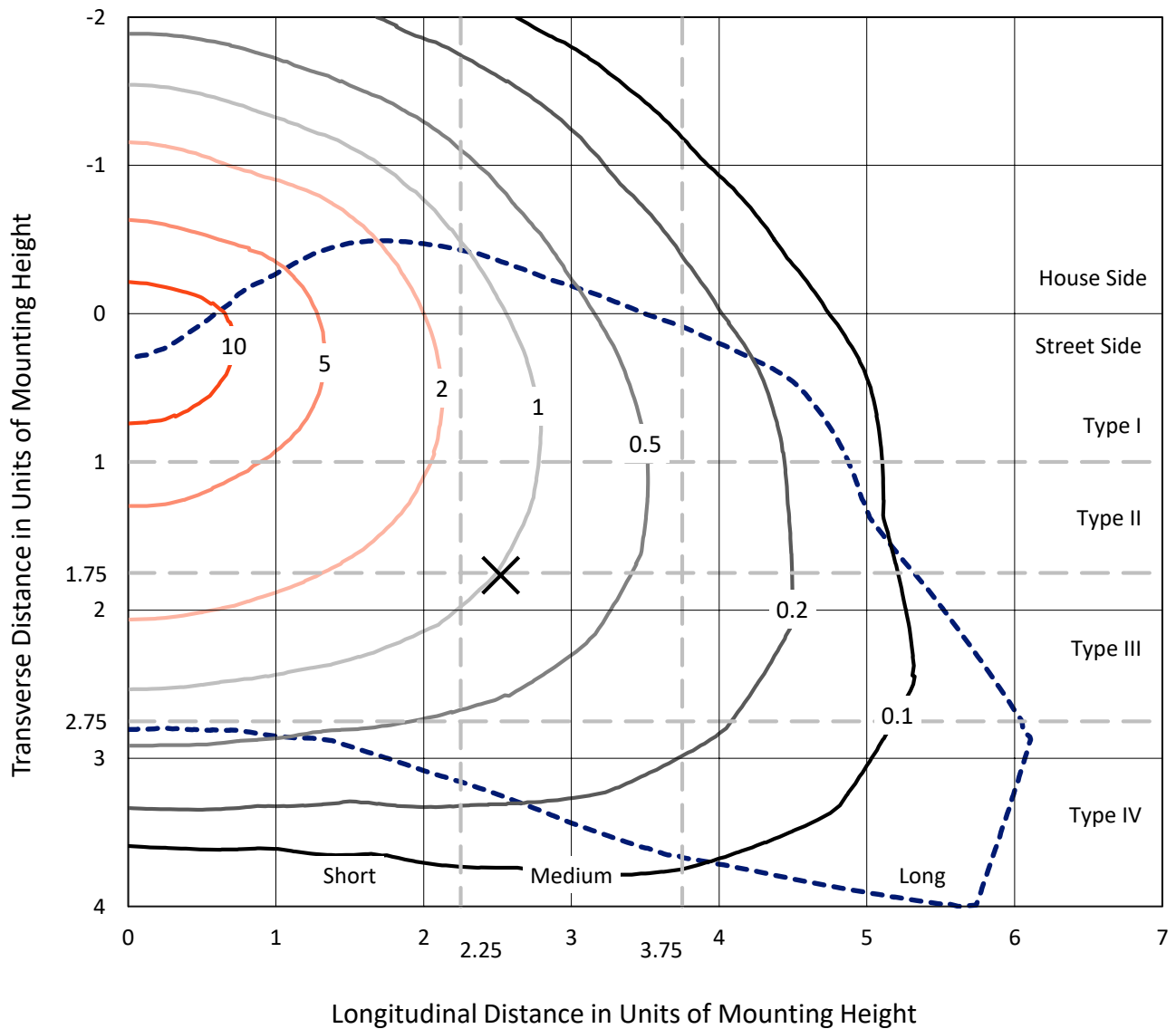
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

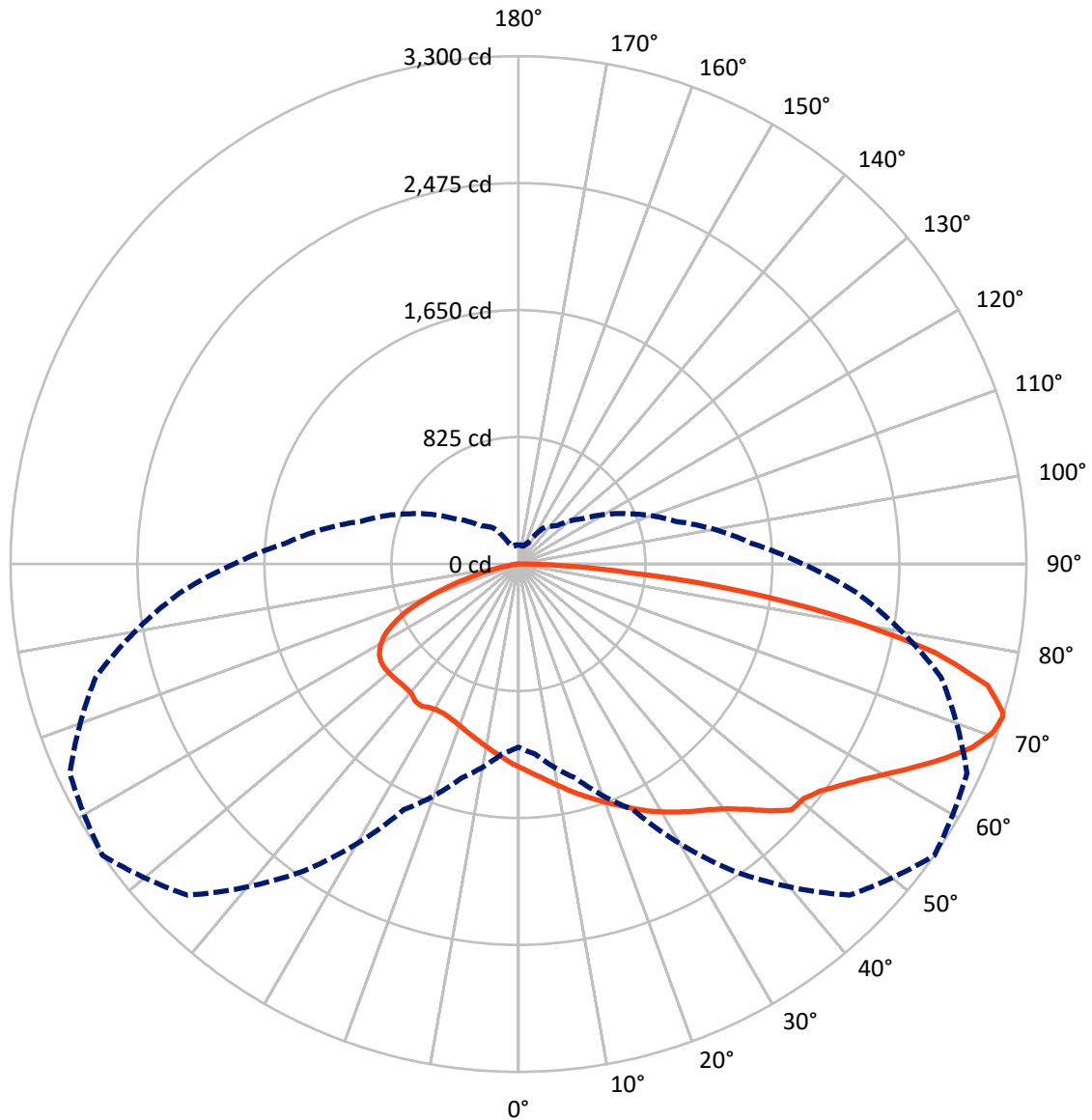
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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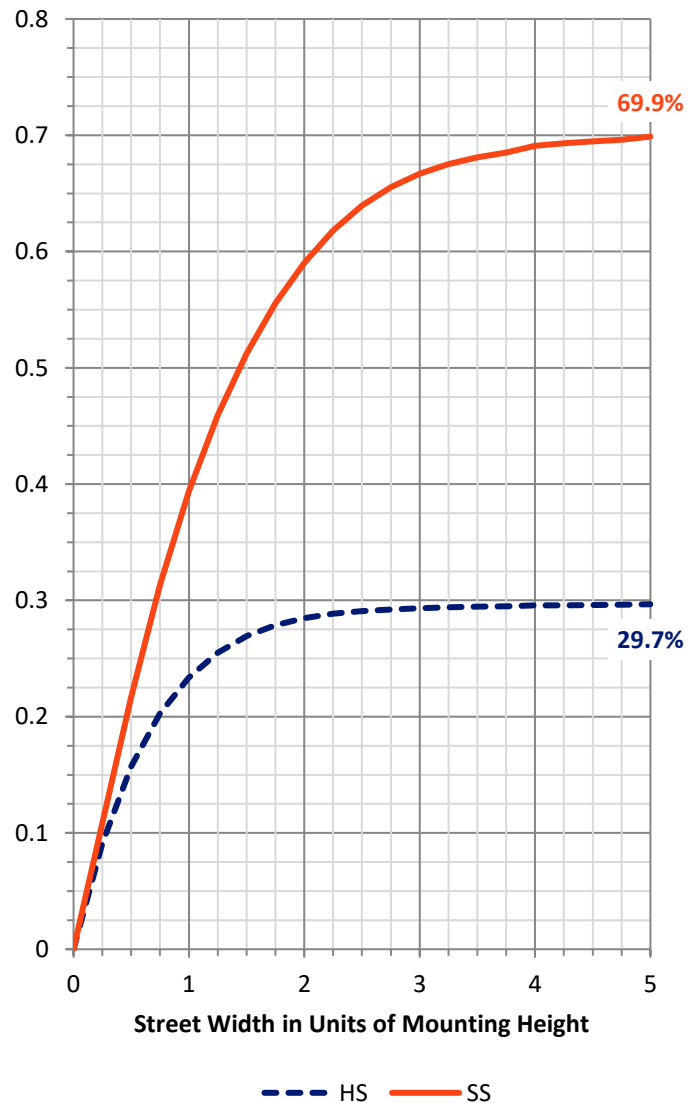
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2428.2	0.0	2428.2
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	5705.8	0.0	5705.8
	% Fixture	70.1	0.0	70.1
<b>Total</b>	Lumens	8134.0	0.0	8134.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	1.6
10°-20°	384.6	4.7
20°-30°	657.7	8.1
30°-40°	953.2	11.7
40°-50°	1278.8	15.7
50°-60°	1567.5	19.3
60°-70°	1752.5	21.5
70°-80°	1200.9	14.8
80°-90°	212.2	2.6
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°	8134.0	100.0
0°-180°	8134.0	100.0



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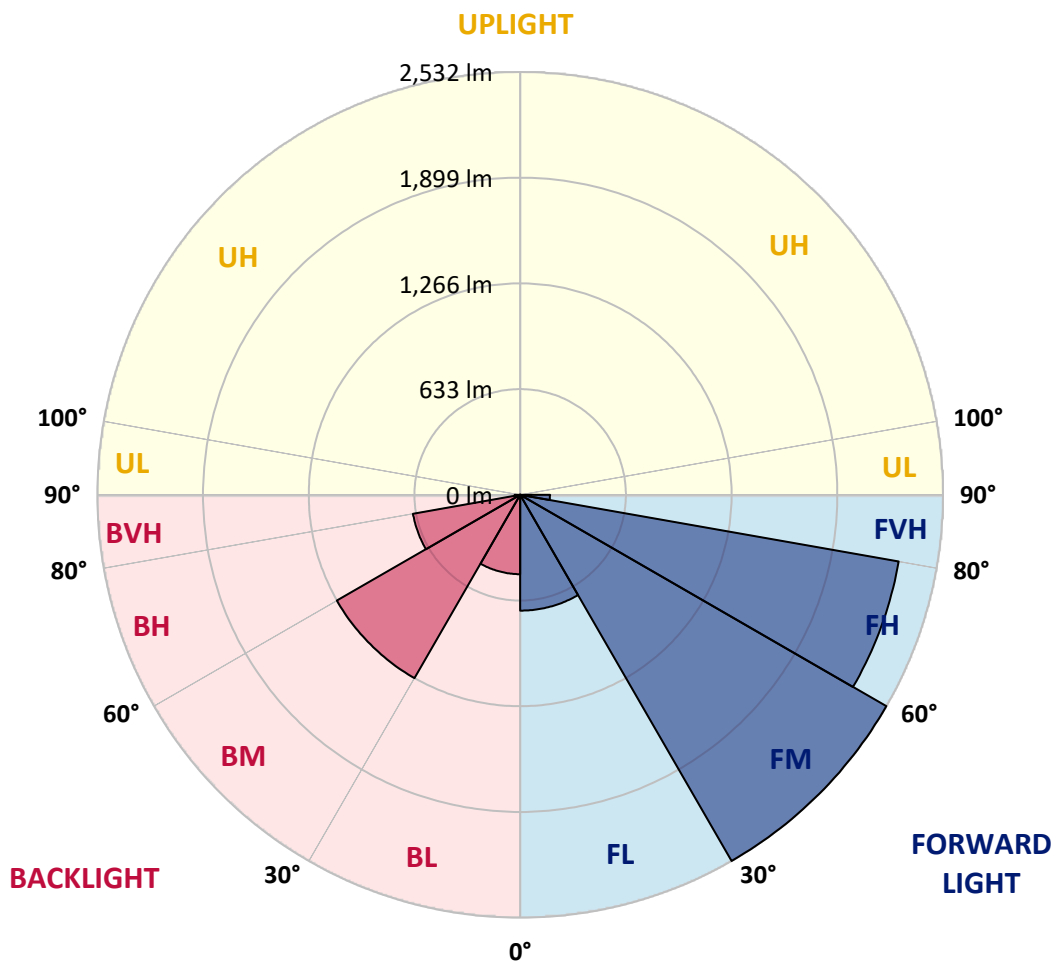
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.6	8.5			
FM	(30°-60°)	2532.0	31.1			
FH	(60°-80°)	2301.5	28.3			G2/5000
FVH	(80°-90°)	178.7	2.2			G2/225
BL	(0°-30°)	475.4	5.8	B1/500		
BM	(30°-60°)	1267.5	15.6	B2/2500		
BH	(60°-80°)	651.9	8.0	B2/1000		G2/1000
BVH	(80°-90°)	33.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1372.0	1366.8	1367.0	1365.1	1359.9	1355.1	1351.8	1343.0	1336.3	1328.9	1323.9
5°	1426.5	1421.3	1417.2	1413.0	1406.8	1397.5	1385.8	1371.3	1355.6	1339.4	1329.6
7.5°	1479.6	1474.9	1470.1	1463.7	1454.9	1441.1	1423.9	1403.0	1379.1	1354.1	1340.1
10°	1529.6	1527.3	1523.2	1514.4	1503.4	1488.0	1467.5	1441.1	1408.9	1375.3	1355.1
12.5°	1576.3	1577.7	1574.4	1567.0	1554.9	1535.8	1513.2	1481.3	1443.9	1398.2	1374.1
15°	1625.8	1621.5	1620.1	1614.4	1605.4	1586.3	1560.4	1523.2	1482.3	1429.2	1398.2
17.5°	1671.3	1666.3	1664.9	1659.2	1646.5	1632.0	1607.3	1568.2	1522.3	1460.8	1428.0
20°	1710.4	1709.4	1706.1	1703.5	1692.3	1676.3	1655.6	1619.4	1568.4	1503.0	1461.5
22.5°	1753.5	1748.2	1749.7	1742.3	1735.1	1725.8	1708.0	1673.7	1618.0	1544.9	1500.1
25°	1788.5	1785.6	1784.7	1781.3	1778.9	1776.1	1762.5	1731.8	1670.6	1594.2	1543.0
27.5°	1814.9	1813.0	1819.4	1818.9	1827.8	1828.0	1818.7	1785.8	1728.5	1642.7	1588.0
30°	1841.6	1841.1	1852.5	1859.9	1869.4	1877.8	1869.9	1842.0	1781.6	1696.6	1638.9
32.5°	1873.5	1872.0	1885.1	1897.0	1911.3	1925.6	1921.1	1895.9	1840.1	1751.6	1689.9
35°	1905.6	1906.6	1920.9	1933.5	1954.2	1972.8	1972.5	1954.2	1901.3	1813.5	1747.3
37.5°	1943.0	1944.9	1954.7	1972.3	1997.3	2016.3	2024.7	2010.9	1964.2	1882.0	1817.3
40°	2033.5	2028.5	2051.3	2059.0	2071.3	2079.4	2089.7	2079.7	2041.1	1958.7	1898.5
42.5°	2125.4	2135.4	2162.8	2163.3	2174.7	2178.5	2179.0	2163.7	2124.4	2047.3	1974.4
45°	2116.6	2127.1	2168.3	2195.2	2251.4	2285.2	2287.5	2266.1	2223.5	2108.0	2004.9
47.5°	2117.5	2129.7	2164.7	2175.6	2246.8	2335.9	2389.0	2380.4	2311.8	2148.7	2045.4
50°	2146.6	2161.1	2194.4	2180.9	2230.2	2317.6	2398.3	2421.8	2340.4	2197.3	2097.1
52.5°	2194.4	2206.8	2243.5	2222.3	2256.8	2348.3	2452.6	2484.0	2410.9	2260.4	2149.9
55°	2246.1	2261.8	2294.5	2285.9	2320.9	2423.7	2538.8	2575.2	2498.0	2322.3	2195.4
57.5°	2308.0	2315.4	2358.7	2364.5	2407.6	2518.8	2640.4	2672.8	2581.9	2373.3	2230.2
60°	2344.5	2352.1	2407.6	2441.1	2517.3	2643.3	2763.8	2789.3	2668.8	2413.3	2251.8
62.5°	2394.5	2401.1	2441.6	2504.9	2637.1	2782.8	2900.5	2909.3	2754.5	2444.5	2251.1
65°	2412.1	2412.3	2456.1	2558.3	2734.0	2928.1	3044.0	3025.5	2833.3	2445.4	2215.2
67.5°	2179.7	2206.4	2286.1	2518.3	2797.1	3054.3	3180.0	3132.4	2882.4	2408.3	2132.3
70°	1753.9	1745.4	1865.6	2211.4	2709.0	3107.1	3273.3	3199.5	2882.1	2322.1	1990.4
72°	1190.1	1239.4	1441.1	1761.3	2434.7	3042.4	3300.0	3216.2	2844.0	2216.1	1847.0
72.5°	1072.7	1110.3	1270.8	1639.6	2365.2	3007.6	3291.4	3213.1	2827.8	2175.9	1801.8
75°	352.6	399.1	568.4	943.2	1757.5	2641.9	3148.8	3144.5	2664.0	1952.0	1551.5
77.5°	139.1	141.4	157.9	361.2	1051.0	2087.1	2768.1	2858.5	2198.5	1609.2	1225.1
80°	101.0	98.6	101.9	131.2	416.7	1376.8	2164.2	2243.7	1308.4	1082.2	856.7
82.5°	69.5	68.6	70.0	83.3	173.1	755.8	1474.6	1296.5	468.6	483.6	488.4
85°	38.8	39.5	39.1	47.1	91.7	332.2	727.0	516.0	72.6	87.1	202.6
87.5°	14.5	14.8	15.2	17.1	31.9	92.4	262.6	84.1	12.4	12.4	32.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1320.6	1311.5	1301.3	1294.6	1285.6	1281.0	1275.1	1275.1	1272.5	1270.3
5°	1321.0	1300.8	1280.6	1262.7	1248.7	1235.1	1223.9	1215.8	1214.6	1212.0
7.5°	1325.1	1294.9	1263.2	1235.6	1211.5	1189.8	1172.0	1162.0	1155.6	1151.0
10°	1333.9	1292.5	1249.1	1208.2	1173.2	1145.3	1122.5	1110.6	1103.4	1101.7
12.5°	1348.0	1292.2	1235.8	1184.1	1139.4	1106.0	1082.2	1066.5	1061.0	1057.0
15°	1364.6	1295.6	1225.6	1161.3	1108.4	1069.1	1044.6	1028.4	1020.3	1018.6
17.5°	1387.5	1303.9	1217.5	1139.8	1079.1	1035.6	1009.6	993.2	985.8	984.6
20°	1415.8	1315.3	1212.2	1120.8	1053.6	1007.5	977.0	959.6	953.4	953.4
22.5°	1448.4	1331.3	1210.1	1104.1	1029.8	980.5	948.9	932.9	929.1	927.7
25°	1483.7	1353.7	1213.7	1092.2	1008.2	956.7	925.3	908.6	902.0	901.0
27.5°	1524.6	1380.3	1222.9	1085.6	992.2	934.1	903.4	883.4	877.4	874.6
30°	1569.9	1412.5	1239.4	1087.0	983.6	917.4	878.4	860.8	852.0	848.6
32.5°	1620.6	1452.5	1266.3	1098.7	982.7	904.6	858.4	834.3	824.8	824.1
35°	1676.6	1502.7	1306.8	1118.7	982.2	888.4	835.1	810.1	804.3	804.6
37.5°	1749.2	1568.2	1343.4	1114.8	951.3	856.7	808.6	792.2	787.2	786.5
40°	1823.7	1606.8	1333.2	1091.5	925.5	830.5	788.9	776.0	773.6	772.2
42.5°	1866.6	1608.7	1338.7	1087.2	910.5	815.5	774.1	762.0	758.2	757.0
45°	1889.2	1637.5	1363.4	1088.9	900.8	803.6	759.8	747.0	740.3	738.9
47.5°	1933.7	1674.6	1389.1	1093.7	894.8	787.7	744.3	729.8	722.9	723.1
50°	1980.6	1709.2	1409.6	1098.7	887.9	773.6	727.9	711.0	706.0	704.1
52.5°	2022.1	1736.1	1419.2	1100.1	879.4	759.1	708.1	689.1	682.9	681.5
55°	2053.2	1748.9	1414.4	1096.3	867.2	740.1	685.1	662.2	654.6	653.1
57.5°	2071.8	1742.5	1389.1	1077.5	847.4	716.5	655.0	625.8	615.8	614.3
60°	2069.2	1706.1	1336.3	1039.8	815.8	678.4	605.3	571.7	558.6	556.5
62.5°	2038.7	1637.7	1265.3	986.0	765.3	614.8	540.8	500.0	479.6	473.1
65°	1973.7	1536.8	1176.3	897.9	677.2	530.5	455.5	407.2	352.2	339.3
67.5°	1862.8	1398.2	1054.4	793.9	568.9	444.3	374.1	256.9	201.0	188.3
70°	1686.3	1209.9	904.1	642.0	441.0	353.1	253.4	142.4	138.8	139.3
72°	1523.2	1064.4	772.7	515.0	351.7	286.9	151.9	120.5	124.5	122.9
72.5°	1475.1	1023.4	744.8	480.5	329.8	271.7	135.2	116.7	119.1	121.0
75°	1242.5	799.3	536.0	329.3	244.5	181.7	100.5	99.3	102.4	103.1
77.5°	941.3	569.8	344.1	208.8	162.9	103.6	80.5	80.5	83.6	84.1
80°	618.9	351.5	143.3	82.6	102.4	68.3	59.5	61.0	64.5	66.0
82.5°	391.5	189.5	42.9	43.3	52.1	44.8	40.2	41.9	45.0	45.2
85°	190.7	38.8	23.1	23.6	24.0	24.3	21.0	22.4	23.1	22.4
87.5°	46.9	9.8	8.8	9.5	7.6	6.4	6.4	5.5	3.8	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)