

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: FAIL-SAFE

Report Number: P837780

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-27-120-EDD-90**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837780
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2STD-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

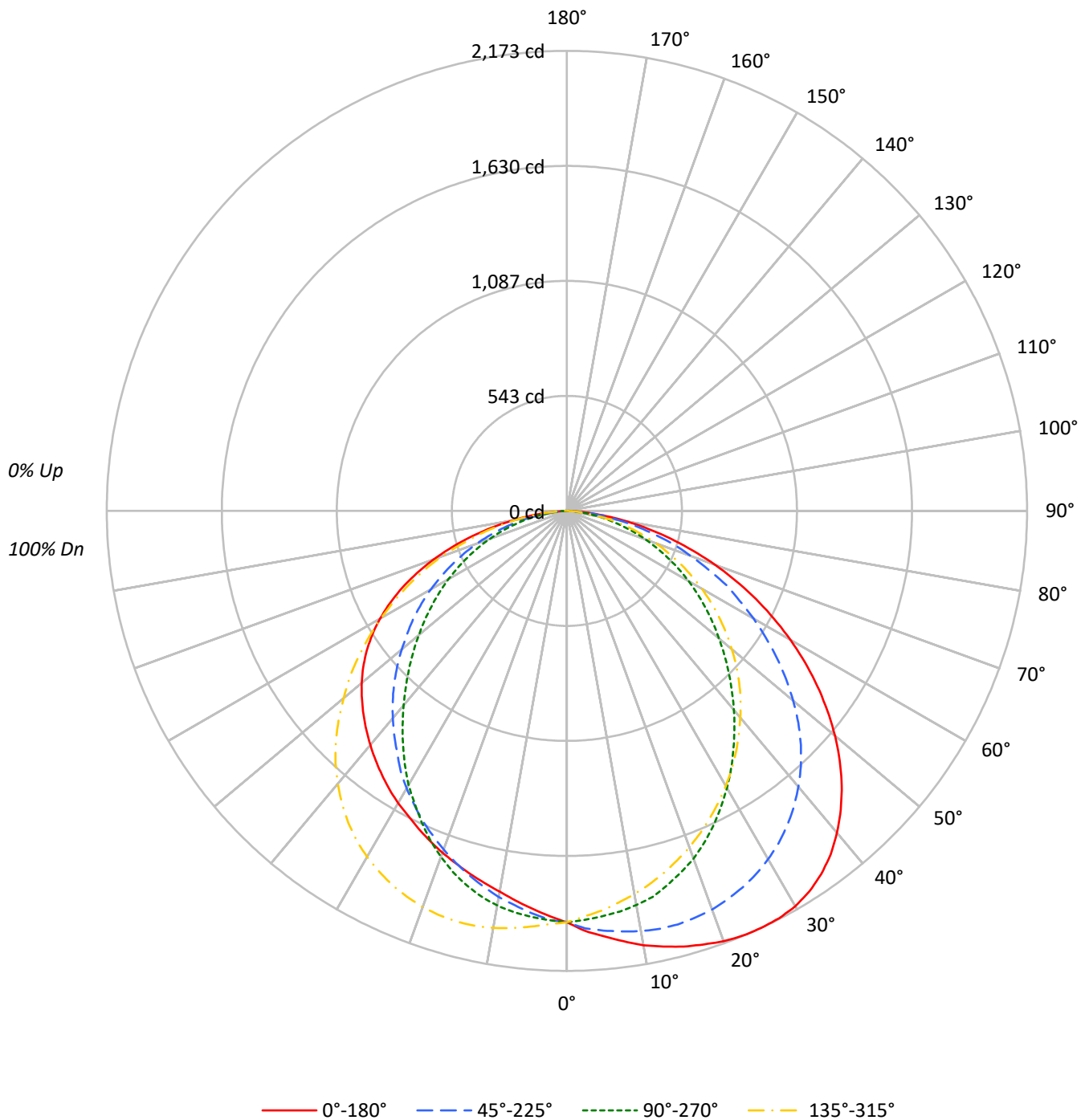
Lumens per Lamp: N/A
Luminaire Lumens: 5701.2 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): 120
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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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5229	5229	5229	5229
5°	5450	5192	5094	5200
10°	5693	5165	4990	5172
15°	5936	5099	4941	5100
20°	6196	5007	4920	4978
25°	6452	4867	4919	4817
30°	6702	4697	4952	4645
35°	6880	4504	5002	4433
40°	6971	4311	5071	4213
45°	6985	4114	5170	4011
50°	6919	3926	5296	3822
55°	6776	3751	5415	3647
60°	6563	3569	5487	3476
65°	6269	3359	5458	3282
70°	5856	3113	5264	3057
75°	5269	2776	4831	2761
80°	4468	2325	4060	2360
85°	3106	1541	2575	1581

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.2
10°-20°	534.3	9.4
20°-30°	818.8	14.4
30°-40°	995.6	17.5
40°-50°	1035.0	18.2
50°-60°	934.9	16.4
60°-70°	710.8	12.5
70°-80°	396.2	7.0
80°-90°	91.2	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°-30°	1537.5	27.0
0°-40°	2533.1	44.4
0°-60°	4503.0	79.0
0°-90°	5701.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5701.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1943	1943	1943	1943	1943	
5°	2018	1922	1886	1925	2018	195
15°	2131	1830	1774	1831	2131	604
25°	2173	1639	1657	1622	2173	1004
35°	2094	1371	1523	1349	2094	1308
45°	1835	1081	1358	1054	1835	1413
55°	1444	800	1154	777	1444	1289
65°	984	528	857	515	984	973
75°	507	267	465	266	507	538
85°	101	50	83	51	101	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3
2.5°	1986.3	1957.3	1957.8	1983.1	1963.7	1973.2	1946.0	1956.4	1953.2	1955.5	1933.3
5°	2017.6	1986.3	1985.9	2007.6	1985.9	1989.9	1955.5	1962.3	1952.3	1946.0	1922.0
7.5°	2050.7	2019.4	2016.2	2035.3	2006.7	2003.5	1965.5	1965.5	1947.3	1931.5	1908.8
10°	2083.3	2051.1	2047.1	2061.6	2026.2	2015.8	1969.5	1962.3	1938.3	1914.7	1890.2
12.5°	2107.8	2075.2	2072.0	2081.1	2041.2	2022.1	1969.5	1955.5	1920.1	1887.0	1868.0
15°	2130.9	2097.4	2088.8	2093.3	2047.5	2022.1	1963.2	1941.4	1896.1	1852.6	1830.4
17.5°	2147.2	2115.1	2106.4	2106.0	2050.7	2014.4	1949.6	1919.7	1865.3	1812.7	1790.5
20°	2163.6	2131.4	2120.5	2112.3	2049.8	2004.0	1929.7	1889.3	1825.9	1766.9	1748.3
22.5°	2171.7	2138.6	2126.8	2114.6	2043.9	1985.0	1905.2	1854.0	1781.4	1711.2	1695.8
25°	2173.1	2139.1	2126.4	2108.7	2032.1	1962.3	1873.5	1811.3	1730.2	1652.2	1639.1
27.5°	2169.4	2132.3	2119.6	2098.3	2014.4	1934.6	1835.8	1762.8	1675.8	1589.7	1575.6
30°	2156.8	2119.1	2106.9	2079.2	1989.5	1900.6	1794.6	1708.9	1615.5	1524.0	1511.7
32.5°	2131.4	2094.7	2084.7	2057.0	1962.3	1861.2	1746.5	1650.9	1548.9	1461.4	1443.3
35°	2094.2	2057.5	2051.1	2022.1	1924.2	1814.1	1693.9	1587.4	1478.2	1388.9	1371.2
37.5°	2045.7	2014.9	2005.4	1976.8	1879.3	1760.6	1633.7	1518.5	1406.1	1310.0	1299.1
40°	1984.5	1955.5	1948.2	1922.9	1827.2	1701.2	1568.4	1447.4	1331.8	1242.5	1227.1
42.5°	1914.7	1887.5	1883.4	1857.1	1762.8	1635.5	1497.7	1373.5	1254.3	1168.1	1152.7
45°	1835.4	1809.1	1808.2	1783.2	1692.6	1562.5	1423.3	1298.7	1178.6	1089.3	1081.1
47.5°	1747.9	1724.3	1724.3	1701.2	1614.2	1482.3	1346.7	1220.7	1102.4	1023.5	1009.0
50°	1652.7	1630.5	1623.7	1612.4	1527.6	1394.8	1266.0	1144.6	1027.2	951.9	937.9
52.5°	1551.2	1532.1	1536.7	1515.8	1433.8	1303.7	1184.4	1058.9	951.5	883.0	869.0
55°	1444.2	1417.0	1421.1	1413.4	1335.8	1209.8	1092.9	988.2	877.1	812.8	799.6
57.5°	1333.1	1297.8	1312.3	1307.7	1231.6	1113.7	1009.0	907.9	803.2	743.8	731.2
60°	1219.4	1185.4	1200.3	1196.2	1124.6	1017.6	922.4	828.6	729.8	675.9	663.2
62.5°	1102.4	1071.1	1084.7	1081.6	1015.8	919.3	836.3	750.2	655.9	607.4	595.6
65°	984.5	954.6	966.9	964.6	903.9	830.4	747.9	669.1	581.6	539.4	527.6
67.5°	864.0	836.3	847.7	847.7	791.9	721.6	659.1	587.0	508.6	472.3	461.4
70°	744.3	718.5	728.4	727.5	680.4	623.3	569.3	505.0	434.7	404.8	395.7
72.5°	623.7	601.1	610.1	609.2	569.8	533.1	479.6	423.8	362.6	338.6	330.4
75°	506.8	485.5	494.1	493.2	461.0	426.5	390.7	344.5	291.9	275.1	267.0
77.5°	395.3	373.5	380.8	380.8	357.2	332.3	303.7	267.9	230.7	212.6	206.7
80°	288.3	277.9	274.2	274.7	258.8	242.5	228.0	193.6	166.4	154.1	150.0
82.5°	189.5	180.9	177.2	178.1	169.1	159.1	150.0	126.0	107.9	100.6	98.4
85°	100.6	94.3	91.1	93.4	91.6	86.1	81.6	65.3	53.9	51.2	49.9
87.5°	31.7	27.7	25.4	33.5	28.6	25.4	24.5	19.5	15.0	15.0	14.5
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°	185°
0°	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3
2.5°	1940.5	1940.5	1922.9	1918.8	1917.0	1919.2	1901.6	1898.4	1923.8	1915.2	1895.7
5°	1925.1	1924.2	1899.3	1894.8	1894.8	1892.0	1872.1	1867.6	1892.9	1885.7	1864.4
7.5°	1906.1	1903.4	1873.9	1870.7	1866.2	1864.4	1842.2	1839.0	1860.8	1856.2	1836.3
10°	1883.0	1880.2	1845.3	1843.1	1838.1	1834.5	1813.6	1811.3	1833.6	1826.3	1810.4
12.5°	1852.6	1847.6	1811.8	1809.5	1805.5	1804.1	1783.7	1782.8	1807.3	1800.0	1783.2
15°	1812.7	1808.6	1768.7	1769.6	1770.1	1770.1	1753.8	1752.9	1776.9	1773.7	1755.6
17.5°	1768.7	1763.3	1725.2	1727.9	1731.1	1734.7	1722.1	1724.3	1749.7	1745.6	1729.3
20°	1718.9	1713.4	1676.3	1684.0	1690.8	1698.0	1689.9	1696.2	1719.8	1718.0	1705.7
22.5°	1663.1	1657.7	1623.2	1635.0	1646.4	1660.0	1656.3	1663.6	1688.5	1688.1	1677.2
25°	1595.1	1596.5	1566.1	1580.6	1599.7	1618.7	1620.1	1631.8	1659.5	1656.8	1646.8
27.5°	1531.7	1533.5	1501.3	1525.8	1551.2	1575.6	1581.5	1597.8	1626.0	1623.7	1615.1
30°	1465.0	1467.3	1436.0	1469.6	1500.4	1530.3	1543.0	1565.2	1593.8	1593.8	1584.7
32.5°	1395.7	1399.8	1367.1	1412.0	1447.8	1482.7	1504.9	1528.0	1560.7	1559.8	1552.1
35°	1324.5	1329.0	1299.1	1356.2	1392.1	1434.7	1462.3	1493.1	1522.1	1522.6	1516.7
37.5°	1252.0	1257.4	1230.2	1292.8	1333.6	1383.9	1419.3	1450.1	1482.3	1484.1	1478.6
40°	1179.9	1185.8	1162.2	1222.5	1274.2	1330.4	1371.2	1407.5	1442.8	1443.7	1440.1
42.5°	1107.8	1114.2	1096.5	1155.4	1213.9	1274.2	1322.2	1363.5	1399.8	1402.0	1397.9
45°	1037.6	1043.0	1030.3	1094.7	1150.9	1216.6	1271.9	1318.6	1355.3	1358.5	1357.2
47.5°	967.8	972.8	961.4	1020.4	1085.2	1155.0	1218.9	1270.6	1309.6	1313.2	1312.3
50°	899.3	903.4	891.2	952.8	1017.2	1091.5	1158.2	1218.0	1261.5	1265.1	1264.7
52.5°	831.3	835.4	825.0	889.8	948.3	1026.7	1099.2	1164.1	1207.1	1212.6	1213.5
55°	765.6	767.4	759.3	821.4	878.0	960.1	1043.5	1106.5	1149.5	1154.1	1156.8
57.5°	699.9	700.3	693.5	752.9	807.3	891.2	978.7	1044.8	1085.6	1090.2	1094.2
60°	634.6	634.2	626.4	684.0	736.1	819.1	910.2	975.9	1015.4	1019.5	1024.9
62.5°	569.8	568.4	561.6	614.7	663.6	745.7	837.2	900.7	938.3	941.0	948.3
65°	505.4	504.1	497.7	546.7	591.1	669.5	759.3	819.5	853.5	857.2	855.8
67.5°	442.0	439.2	434.3	478.2	518.6	591.1	677.2	734.8	762.9	766.1	774.7
70°	378.5	375.3	364.0	410.7	446.0	510.9	591.1	642.3	665.9	669.1	667.7
72.5°	315.9	312.8	300.5	343.6	373.5	430.2	501.8	544.4	564.8	567.5	567.5
75°	255.2	253.4	245.7	278.3	303.3	349.5	410.2	445.6	461.4	464.6	463.7
77.5°	196.7	195.4	187.7	215.8	235.3	269.7	318.7	346.3	358.1	361.7	369.4
80°	141.0	140.5	128.3	155.9	164.5	193.6	229.4	250.7	257.0	262.0	267.4
82.5°	90.2	90.7	78.4	102.0	105.6	124.2	146.4	159.6	164.1	168.2	172.3
85°	44.0	45.8	39.0	53.9	54.4	63.9	73.4	78.4	80.2	83.4	87.0
87.5°	11.3	13.1	7.3	15.4	13.6	17.7	20.4	21.8	21.3	23.6	24.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3
2.5°	1902.0	1916.5	1909.3	1932.8	1941.9	1927.4	1952.8	1953.2	1935.1	1956.4	1968.2
5°	1872.5	1887.5	1883.0	1907.4	1918.8	1906.1	1936.9	1942.8	1925.1	1949.1	1968.2
7.5°	1842.6	1860.3	1854.4	1879.3	1892.9	1883.0	1916.1	1925.6	1912.0	1938.3	1963.7
10°	1816.8	1831.7	1825.4	1851.7	1863.5	1855.3	1888.0	1905.6	1892.9	1925.1	1955.5
12.5°	1791.4	1803.6	1796.4	1818.1	1829.5	1819.1	1858.9	1875.3	1866.2	1899.7	1938.7
15°	1758.8	1772.4	1762.4	1781.9	1790.5	1781.4	1814.1	1842.2	1830.8	1867.6	1910.6
17.5°	1733.8	1741.5	1727.9	1743.4	1748.3	1736.1	1769.2	1796.8	1788.7	1828.6	1878.4
20°	1706.2	1712.5	1693.5	1702.1	1701.7	1686.2	1716.6	1743.8	1738.4	1782.3	1839.0
22.5°	1675.4	1678.5	1656.3	1658.1	1657.2	1631.8	1659.0	1686.7	1684.4	1728.9	1792.3
25°	1642.7	1643.2	1614.6	1613.7	1603.7	1573.8	1597.8	1629.1	1622.3	1670.4	1737.0
27.5°	1610.5	1606.0	1571.6	1563.4	1547.5	1511.7	1533.0	1561.1	1557.1	1604.2	1678.1
30°	1576.1	1570.2	1528.0	1513.1	1490.0	1448.7	1466.4	1492.7	1495.0	1536.2	1613.7
32.5°	1543.5	1528.5	1481.8	1460.0	1431.0	1383.0	1392.5	1419.3	1422.9	1464.6	1544.4
35°	1501.3	1491.3	1433.8	1396.6	1368.0	1315.4	1325.4	1344.0	1349.4	1390.2	1471.4
37.5°	1461.4	1445.5	1384.3	1339.0	1302.3	1247.0	1249.7	1268.8	1274.2	1315.4	1395.7
40°	1420.2	1397.5	1331.8	1278.7	1236.6	1178.6	1175.4	1195.3	1199.4	1239.7	1312.3
42.5°	1376.2	1349.0	1275.1	1217.1	1168.6	1109.7	1103.3	1120.5	1125.1	1164.5	1235.7
45°	1331.8	1299.1	1217.1	1153.6	1100.6	1040.3	1034.0	1047.1	1053.9	1091.1	1159.5
47.5°	1284.6	1246.5	1157.3	1086.5	1031.7	971.4	963.7	976.8	982.3	1019.0	1083.8
50°	1235.2	1189.0	1095.6	1017.6	963.2	903.9	892.5	907.9	912.9	947.4	1010.8
52.5°	1180.8	1129.6	1029.9	948.3	893.9	837.2	823.6	838.6	844.5	878.0	936.5
55°	1123.3	1068.0	963.7	884.4	825.4	770.1	758.8	764.7	777.4	809.1	863.5
57.5°	1058.4	1003.6	893.9	813.2	756.5	703.5	694.0	699.4	711.2	742.0	791.0
60°	989.5	931.5	822.7	742.0	687.2	636.9	628.3	633.2	645.9	674.0	719.4
62.5°	921.5	856.3	749.3	669.1	619.2	572.5	570.2	568.4	580.2	607.4	647.3
65°	839.0	776.5	672.7	596.5	551.2	509.0	500.0	504.1	515.4	540.3	582.0
67.5°	750.6	694.0	594.3	524.0	483.7	446.0	438.3	440.1	451.9	473.7	510.0
70°	656.8	607.0	514.0	451.0	417.0	381.7	376.7	377.1	388.5	407.5	439.2
72.5°	558.5	513.6	432.9	379.0	350.8	325.5	320.9	315.5	325.9	342.2	369.4
75°	458.3	418.8	352.2	308.2	286.0	264.7	260.6	255.2	265.6	279.7	301.0
77.5°	357.2	325.5	273.8	239.8	222.6	206.7	203.1	197.2	207.6	218.0	234.8
80°	258.4	235.3	204.4	168.6	162.7	152.3	148.7	142.3	152.3	159.1	171.8
82.5°	166.8	151.4	133.7	108.8	107.9	100.2	98.4	91.1	100.2	104.3	113.8
85°	84.3	77.1	72.5	55.3	57.1	52.1	51.7	44.0	51.2	53.0	58.5
87.5°	24.0	25.4	22.7	13.6	17.2	16.3	16.3	11.8	16.3	16.3	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P837780

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3	1943.3
2.5°	1945.1	1952.8	1954.6	1954.1	1959.1	1986.3	1977.3	1986.3
5°	1949.6	1966.8	1971.4	1977.7	1985.9	2016.7	2006.7	2017.6
7.5°	1952.3	1978.2	1988.1	2000.4	2013.5	2048.0	2039.8	2050.7
10°	1952.3	1985.9	2000.4	2020.8	2038.4	2078.3	2070.6	2083.3
12.5°	1944.2	1987.2	2007.6	2036.2	2058.8	2101.9	2098.7	2107.8
15°	1927.4	1980.4	2008.5	2045.2	2073.4	2121.4	2120.0	2130.9
17.5°	1904.7	1968.6	2002.6	2048.9	2084.2	2138.2	2141.3	2147.2
20°	1876.2	1946.4	1990.9	2047.5	2091.9	2151.3	2155.4	2163.6
22.5°	1838.5	1919.7	1973.2	2041.6	2092.8	2156.8	2164.0	2171.7
25°	1794.1	1887.5	1950.1	2030.3	2088.3	2156.3	2166.3	2173.1
27.5°	1743.4	1845.8	1920.6	2012.2	2075.6	2149.1	2161.3	2169.4
30°	1684.4	1801.4	1887.0	1988.6	2058.4	2135.5	2148.6	2156.8
32.5°	1623.7	1752.4	1847.2	1958.2	2033.5	2113.7	2125.0	2131.4
35°	1557.5	1693.0	1799.1	1919.2	2001.3	2078.8	2087.4	2094.2
37.5°	1485.4	1628.7	1744.3	1875.3	1955.9	2030.3	2038.0	2045.7
40°	1411.1	1561.1	1682.6	1821.3	1902.0	1970.9	1979.1	1984.5
42.5°	1336.3	1486.3	1616.9	1757.9	1838.1	1904.3	1909.3	1914.7
45°	1260.6	1408.8	1543.0	1687.6	1766.9	1829.0	1830.8	1835.4
47.5°	1183.5	1328.6	1461.9	1607.4	1685.8	1742.4	1744.3	1747.9
50°	1106.0	1248.4	1375.3	1520.8	1597.4	1657.2	1649.1	1652.7
52.5°	1029.9	1164.1	1293.7	1427.4	1503.1	1556.1	1558.4	1551.2
55°	955.1	1081.6	1200.8	1329.5	1401.6	1442.8	1441.5	1444.2
57.5°	879.4	998.1	1107.4	1225.2	1295.5	1334.5	1342.6	1333.1
60°	802.3	913.8	1011.7	1118.3	1186.3	1218.9	1228.4	1219.4
62.5°	725.7	828.2	917.0	1009.9	1072.9	1113.3	1112.4	1102.4
65°	649.1	742.0	821.4	900.2	955.1	995.4	993.6	984.5
67.5°	578.4	655.0	726.2	790.1	837.7	865.3	874.9	864.0
70°	500.4	566.6	629.2	680.4	719.8	744.8	753.8	744.3
72.5°	422.5	478.7	522.6	572.1	602.4	623.3	632.8	623.7
75°	345.4	391.6	427.5	466.0	487.3	505.0	515.8	506.8
77.5°	270.6	306.4	335.0	363.1	387.6	391.6	401.2	395.3
80°	199.4	225.3	246.1	264.7	282.4	284.2	291.9	288.3
82.5°	132.8	150.0	155.5	175.0	186.3	184.5	192.2	189.5
85°	70.3	80.7	90.2	96.1	102.4	96.6	103.4	100.6
87.5°	23.6	24.9	21.8	30.8	34.0	29.0	33.1	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)