

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: P837960

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-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: P837960
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-5STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

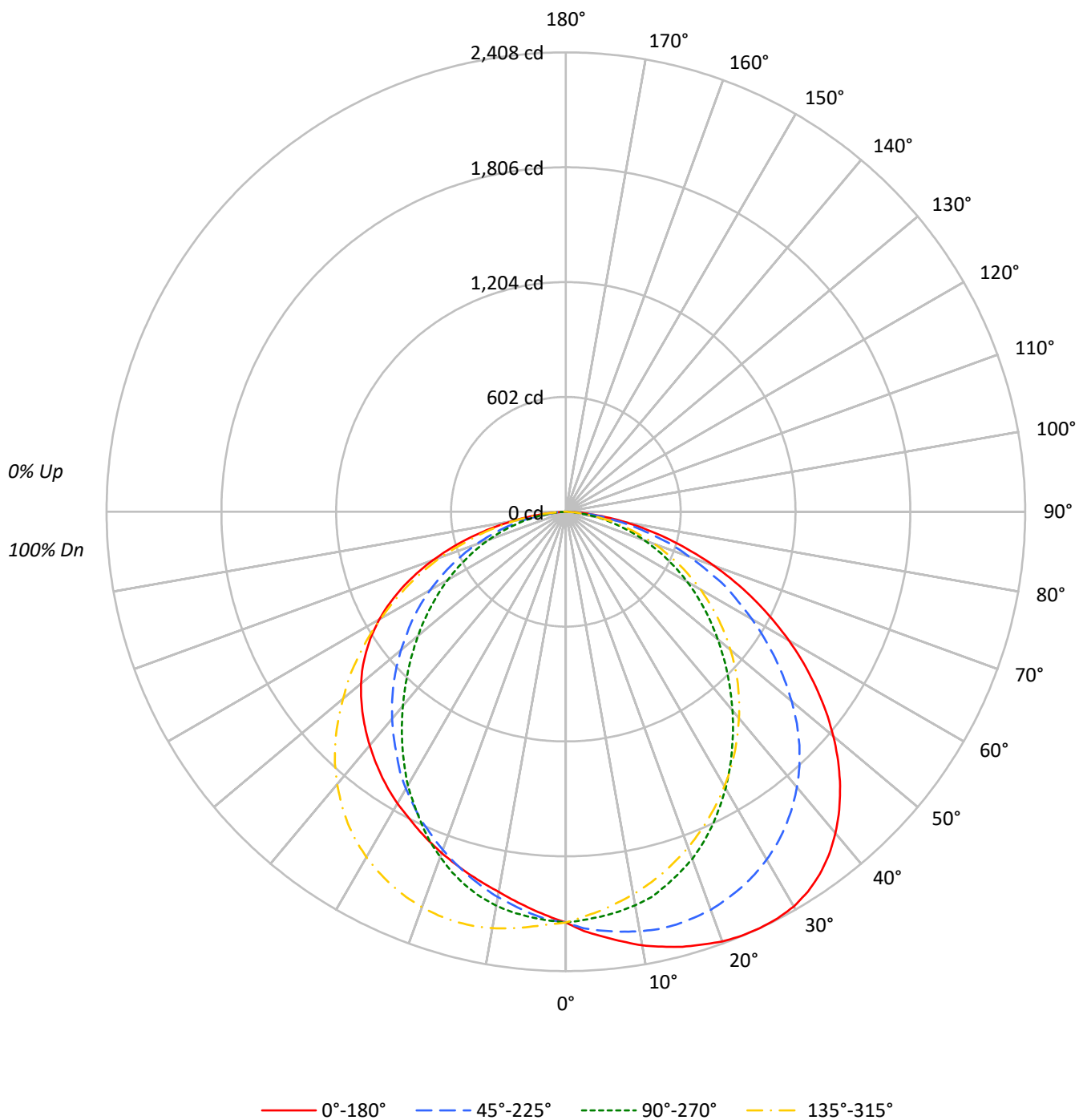
Lumens per Lamp: N/A
Luminaire Lumens: 6316.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5794	5794	5794	5794
5°	6038	5752	5643	5762
10°	6307	5722	5529	5731
15°	6577	5650	5475	5651
20°	6864	5547	5451	5515
25°	7149	5392	5450	5337
30°	7425	5204	5487	5147
35°	7622	4991	5542	4912
40°	7724	4776	5619	4668
45°	7738	4558	5728	4443
50°	7666	4350	5868	4234
55°	7507	4156	5999	4041
60°	7270	3954	6079	3851
65°	6946	3722	6047	3636
70°	6488	3449	5832	3386
75°	5838	3075	5352	3060
80°	4950	2576	4499	2614
85°	3443	1704	2853	1751

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.2
10°-20°	591.9	9.4
20°-30°	907.2	14.4
30°-40°	1103.0	17.5
40°-50°	1146.7	18.2
50°-60°	1035.8	16.4
60°-70°	787.5	12.5
70°-80°	439.0	7.0
80°-90°	101.1	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°	1703.5	27.0
0°-40°	2806.5	44.4
0°-60°	4989.0	79.0
0°-90°	6316.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6316.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2153	2153	2153	2153	2153	
5°	2235	2129	2089	2133	2235	216
15°	2361	2028	1965	2028	2361	669
25°	2408	1816	1836	1797	2408	1112
35°	2320	1519	1687	1495	2320	1449
45°	2033	1198	1505	1168	2033	1566
55°	1600	886	1279	861	1600	1428
65°	1091	585	950	571	1091	1078
75°	562	296	515	294	562	596
85°	112	55	92	57	112	140
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°	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0
2.5°	2200.7	2168.5	2169.0	2197.2	2175.6	2186.1	2156.0	2167.5	2164.0	2166.5	2141.9
5°	2235.3	2200.7	2200.2	2224.3	2200.2	2204.7	2166.5	2174.1	2163.0	2156.0	2129.4
7.5°	2272.0	2237.3	2233.8	2254.9	2223.3	2219.8	2177.6	2177.6	2157.5	2139.9	2114.8
10°	2308.2	2272.5	2268.0	2284.0	2244.9	2233.3	2182.1	2174.1	2147.4	2121.3	2094.2
12.5°	2335.3	2299.1	2295.6	2305.6	2261.4	2240.4	2182.1	2166.5	2127.4	2090.7	2069.6
15°	2360.9	2323.7	2314.2	2319.2	2268.5	2240.4	2175.1	2151.0	2100.7	2052.5	2027.9
17.5°	2379.0	2343.3	2333.8	2333.3	2272.0	2231.8	2160.0	2126.9	2066.6	2008.3	1983.7
20°	2397.0	2361.4	2349.3	2340.3	2271.0	2220.3	2137.9	2093.2	2022.9	1957.6	1937.0
22.5°	2406.1	2369.4	2356.4	2342.8	2264.5	2199.2	2110.8	2054.0	1973.7	1895.8	1878.8
25°	2407.6	2369.9	2355.9	2336.3	2251.4	2174.1	2075.6	2006.8	1916.9	1830.6	1816.0
27.5°	2403.6	2362.4	2348.3	2324.7	2231.8	2143.4	2033.9	1953.1	1856.7	1761.2	1745.7
30°	2389.5	2347.8	2334.3	2303.6	2204.2	2105.8	1988.2	1893.3	1789.9	1688.4	1674.9
32.5°	2361.4	2320.7	2309.7	2279.0	2174.1	2062.1	1935.0	1829.0	1716.0	1619.1	1599.0
35°	2320.2	2279.5	2272.5	2240.4	2131.9	2009.8	1876.8	1758.7	1637.7	1538.8	1519.2
37.5°	2266.5	2232.3	2221.8	2190.1	2082.2	1950.6	1810.0	1682.4	1557.9	1451.4	1439.3
40°	2198.7	2166.5	2158.5	2130.4	2024.4	1884.8	1737.6	1603.6	1475.5	1376.6	1359.5
42.5°	2121.3	2091.2	2086.7	2057.6	1953.1	1812.0	1659.3	1521.7	1389.6	1294.2	1277.1
45°	2033.4	2004.3	2003.3	1975.7	1875.2	1731.1	1576.9	1438.8	1305.7	1206.8	1197.8
47.5°	1936.5	1910.4	1910.4	1884.8	1788.4	1642.2	1492.1	1352.4	1221.4	1134.0	1117.9
50°	1831.1	1806.4	1798.9	1786.4	1692.4	1545.3	1402.7	1268.1	1138.0	1054.6	1039.1
52.5°	1718.6	1697.5	1702.5	1679.4	1588.5	1444.4	1312.3	1173.2	1054.1	978.3	962.7
55°	1600.0	1569.9	1574.4	1565.9	1480.0	1340.4	1210.8	1094.8	971.8	900.5	885.9
57.5°	1477.0	1437.8	1453.9	1448.9	1364.5	1233.9	1117.9	1005.9	889.9	824.1	810.1
60°	1350.9	1313.3	1329.9	1325.3	1246.0	1127.5	1022.0	918.0	808.6	748.8	734.7
62.5°	1221.4	1186.7	1201.8	1198.3	1125.5	1018.5	926.6	831.2	726.7	673.0	659.9
65°	1090.8	1057.7	1071.2	1068.7	1001.4	920.0	828.6	741.3	644.3	597.6	584.6
67.5°	957.2	926.6	939.1	939.1	877.4	799.5	730.2	650.4	563.5	523.3	511.2
70°	824.6	796.0	807.1	806.0	753.8	690.5	630.8	559.5	481.6	448.5	438.4
72.5°	691.0	665.9	676.0	675.0	631.3	590.6	531.3	469.6	401.8	375.2	366.1
75°	561.5	537.9	547.4	546.4	510.7	472.6	432.9	381.7	323.4	304.8	295.8
77.5°	437.9	413.8	421.9	421.9	395.7	368.1	336.5	296.8	255.6	235.5	229.0
80°	319.4	307.9	303.8	304.3	286.8	268.7	252.6	214.4	184.3	170.8	166.2
82.5°	209.9	200.4	196.4	197.4	187.3	176.3	166.2	139.6	119.5	111.5	109.0
85°	111.5	104.5	100.9	103.5	101.4	95.4	90.4	72.3	59.8	56.7	55.2
87.5°	35.2	30.6	28.1	37.2	31.6	28.1	27.1	21.6	16.6	16.6	16.1
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°	185°
0°	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0
2.5°	2150.0	2150.0	2130.4	2125.9	2123.8	2126.4	2106.8	2103.3	2131.4	2121.8	2100.2
5°	2132.9	2131.9	2104.3	2099.2	2099.2	2096.2	2074.1	2069.1	2097.2	2089.2	2065.6
7.5°	2111.8	2108.8	2076.1	2072.6	2067.6	2065.6	2041.0	2037.5	2061.6	2056.5	2034.5
10°	2086.2	2083.2	2044.5	2042.0	2036.5	2032.4	2009.3	2006.8	2031.4	2023.4	2005.8
12.5°	2052.5	2047.0	2007.3	2004.8	2000.3	1998.8	1976.2	1975.2	2002.3	1994.3	1975.7
15°	2008.3	2003.8	1959.6	1960.6	1961.1	1961.1	1943.0	1942.0	1968.7	1965.1	1945.1
17.5°	1959.6	1953.6	1911.4	1914.4	1917.9	1922.0	1907.9	1910.4	1938.5	1934.0	1915.9
20°	1904.4	1898.4	1857.2	1865.7	1873.2	1881.3	1872.2	1879.3	1905.4	1903.4	1889.8
22.5°	1842.6	1836.6	1798.4	1811.5	1824.0	1839.1	1835.1	1843.1	1870.7	1870.2	1858.2
25°	1767.3	1768.8	1735.1	1751.2	1772.3	1793.4	1794.9	1808.0	1838.6	1835.6	1824.5
27.5°	1697.0	1699.0	1663.3	1690.4	1718.6	1745.7	1752.2	1770.3	1801.4	1798.9	1789.4
30°	1623.1	1625.7	1591.0	1628.2	1662.3	1695.5	1709.5	1734.1	1765.8	1765.8	1755.7
32.5°	1546.3	1550.8	1514.7	1564.4	1604.1	1642.7	1667.3	1692.9	1729.1	1728.1	1719.6
35°	1467.5	1472.5	1439.3	1502.6	1542.3	1589.5	1620.1	1654.3	1686.4	1686.9	1680.4
37.5°	1387.1	1393.1	1363.0	1432.3	1477.5	1533.2	1572.4	1606.6	1642.2	1644.2	1638.2
40°	1307.3	1313.8	1287.7	1354.5	1411.7	1474.0	1519.2	1559.4	1598.5	1599.5	1595.5
42.5°	1227.4	1234.4	1214.8	1280.1	1344.9	1411.7	1464.9	1510.6	1550.8	1553.3	1548.8
45°	1149.6	1155.6	1141.5	1212.8	1275.1	1347.9	1409.2	1460.9	1501.6	1505.1	1503.6
47.5°	1072.2	1077.7	1065.2	1130.5	1202.3	1279.6	1350.4	1407.7	1450.9	1454.9	1453.9
50°	996.4	1000.9	987.3	1055.6	1127.0	1209.3	1283.1	1349.4	1397.6	1401.7	1401.2
52.5°	921.1	925.6	914.0	985.8	1050.6	1137.5	1217.9	1289.7	1337.4	1343.4	1344.4
55°	848.2	850.2	841.2	910.0	972.8	1063.7	1156.1	1225.9	1273.6	1278.6	1281.6
57.5°	775.4	775.9	768.4	834.2	894.4	987.3	1084.3	1157.6	1202.8	1207.8	1212.3
60°	703.1	702.6	694.1	757.8	815.6	907.5	1008.4	1081.3	1124.9	1129.5	1135.5
62.5°	631.3	629.8	622.2	681.0	735.2	826.1	927.6	997.9	1039.6	1042.6	1050.6
65°	560.0	558.5	551.4	605.7	654.9	741.8	841.2	908.0	945.7	949.7	948.2
67.5°	489.7	486.6	481.1	529.8	574.5	654.9	750.3	814.1	845.2	848.7	858.3
70°	419.3	415.8	403.3	455.0	494.2	566.0	654.9	711.6	737.7	741.3	739.8
72.5°	350.0	346.5	333.0	380.7	413.8	476.6	555.9	603.2	625.8	628.8	628.8
75°	282.7	280.7	272.2	308.4	336.0	387.2	454.5	493.7	511.2	514.8	513.8
77.5°	218.0	216.5	207.9	239.1	260.6	298.8	353.1	383.7	396.7	400.8	409.3
80°	156.2	155.7	142.1	172.8	182.3	214.4	254.1	277.7	284.8	290.3	296.3
82.5°	99.9	100.4	86.9	113.0	117.0	137.6	162.2	176.8	181.8	186.3	190.8
85°	48.7	50.7	43.2	59.8	60.3	70.8	81.4	86.9	88.9	92.4	96.4
87.5°	12.6	14.6	8.0	17.1	15.1	19.6	22.6	24.1	23.6	26.1	27.6
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°	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0
2.5°	2107.3	2123.3	2115.3	2141.4	2151.5	2135.4	2163.5	2164.0	2143.9	2167.5	2180.6
5°	2074.6	2091.2	2086.2	2113.3	2125.9	2111.8	2145.9	2152.5	2132.9	2159.5	2180.6
7.5°	2041.5	2061.1	2054.5	2082.2	2097.2	2086.2	2122.8	2133.4	2118.3	2147.4	2175.6
10°	2012.9	2029.4	2022.4	2051.5	2064.6	2055.5	2091.7	2111.3	2097.2	2132.9	2166.5
12.5°	1984.7	1998.3	1990.3	2014.4	2026.9	2015.4	2059.6	2077.6	2067.6	2104.8	2147.9
15°	1948.6	1963.6	1952.6	1974.2	1983.7	1973.7	2009.8	2041.0	2028.4	2069.1	2116.8
17.5°	1921.0	1929.5	1914.4	1931.5	1937.0	1923.5	1960.1	1990.8	1981.7	2025.9	2081.2
20°	1890.3	1897.3	1876.3	1885.8	1885.3	1868.2	1901.9	1932.0	1926.0	1974.7	2037.5
22.5°	1856.2	1859.7	1835.1	1837.1	1836.1	1808.0	1838.1	1868.7	1866.2	1915.4	1985.7
25°	1820.0	1820.5	1788.9	1787.9	1776.8	1743.7	1770.3	1804.9	1797.4	1850.6	1924.5
27.5°	1784.3	1779.3	1741.2	1732.1	1714.5	1674.9	1698.5	1729.6	1725.1	1777.3	1859.2
30°	1746.2	1739.7	1692.9	1676.4	1650.8	1605.1	1624.6	1653.8	1656.3	1702.0	1787.9
32.5°	1710.0	1693.4	1641.7	1617.6	1585.5	1532.2	1542.8	1572.4	1576.4	1622.6	1711.0
35°	1663.3	1652.3	1588.5	1547.3	1515.7	1457.4	1468.5	1489.1	1495.1	1540.3	1630.2
37.5°	1619.1	1601.5	1533.7	1483.5	1442.8	1381.6	1384.6	1405.7	1411.7	1457.4	1546.3
40°	1573.4	1548.3	1475.5	1416.7	1370.0	1305.7	1302.2	1324.3	1328.8	1373.5	1453.9
42.5°	1524.7	1494.6	1412.7	1348.4	1294.7	1229.4	1222.4	1241.5	1246.5	1290.2	1369.0
45°	1475.5	1439.3	1348.4	1278.1	1219.4	1152.6	1145.5	1160.1	1167.6	1208.8	1284.7
47.5°	1423.3	1381.1	1282.1	1203.8	1143.0	1076.2	1067.7	1082.3	1088.3	1129.0	1200.8
50°	1368.5	1317.3	1213.8	1127.5	1067.2	1001.4	988.9	1005.9	1011.4	1049.6	1119.9
52.5°	1308.3	1251.5	1141.0	1050.6	990.4	927.6	912.5	929.1	935.6	972.8	1037.6
55°	1244.5	1183.2	1067.7	979.8	914.5	853.3	840.7	847.2	861.3	896.4	956.7
57.5°	1172.7	1111.9	990.4	901.0	838.2	779.4	768.9	774.9	788.0	822.1	876.4
60°	1096.3	1032.0	911.5	822.1	761.3	705.6	696.1	701.6	715.6	746.8	797.0
62.5°	1021.0	948.7	830.2	741.3	686.0	634.3	631.8	629.8	642.8	673.0	717.2
65°	929.6	860.3	745.3	660.9	610.7	564.0	553.9	558.5	571.0	598.6	644.8
67.5°	831.7	768.9	658.4	580.6	535.9	494.2	485.6	487.6	500.7	524.8	565.0
70°	727.7	672.5	569.5	499.7	462.0	422.9	417.3	417.8	430.4	451.5	486.6
72.5°	618.7	569.0	479.6	419.8	388.7	360.6	355.6	349.5	361.1	379.2	409.3
75°	507.7	464.0	390.2	341.5	316.9	293.3	288.8	282.7	294.3	309.9	333.5
77.5°	395.7	360.6	303.3	265.7	246.6	229.0	225.0	218.5	230.0	241.6	260.1
80°	286.3	260.6	226.5	186.8	180.3	168.7	164.7	157.7	168.7	176.3	190.3
82.5°	184.8	167.7	148.2	120.5	119.5	111.0	109.0	100.9	111.0	115.5	126.1
85°	93.4	85.4	80.4	61.3	63.3	57.8	57.3	48.7	56.7	58.8	64.8
87.5°	26.6	28.1	25.1	15.1	19.1	18.1	18.1	13.1	18.1	18.1	20.6
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: P837960

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0	2153.0
2.5°	2155.0	2163.5	2165.5	2165.0	2170.5	2200.7	2190.6	2200.7
5°	2160.0	2179.1	2184.1	2191.1	2200.2	2234.3	2223.3	2235.3
7.5°	2163.0	2191.6	2202.7	2216.2	2230.8	2269.0	2259.9	2272.0
10°	2163.0	2200.2	2216.2	2238.8	2258.4	2302.6	2294.1	2308.2
12.5°	2154.0	2201.7	2224.3	2255.9	2281.0	2328.7	2325.2	2335.3
15°	2135.4	2194.2	2225.3	2266.0	2297.1	2350.3	2348.8	2360.9
17.5°	2110.3	2181.1	2218.8	2270.0	2309.2	2368.9	2372.4	2379.0
20°	2078.6	2156.5	2205.7	2268.5	2317.7	2383.5	2388.0	2397.0
22.5°	2037.0	2126.9	2186.1	2262.0	2318.7	2389.5	2397.5	2406.1
25°	1987.7	2091.2	2160.5	2249.4	2313.7	2389.0	2400.1	2407.6
27.5°	1931.5	2045.0	2127.9	2229.3	2299.6	2381.0	2394.5	2403.6
30°	1866.2	1995.8	2090.7	2203.2	2280.5	2365.9	2380.5	2389.5
32.5°	1798.9	1941.5	2046.5	2169.5	2252.9	2341.8	2354.4	2361.4
35°	1725.6	1875.8	1993.3	2126.4	2217.3	2303.1	2312.7	2320.2
37.5°	1645.7	1804.4	1932.5	2077.6	2167.0	2249.4	2257.9	2266.5
40°	1563.4	1729.6	1864.2	2017.9	2107.3	2183.6	2192.6	2198.7
42.5°	1480.5	1646.7	1791.4	1947.6	2036.5	2109.8	2115.3	2121.3
45°	1396.6	1560.9	1709.5	1869.7	1957.6	2026.4	2028.4	2033.4
47.5°	1311.3	1472.0	1619.6	1780.8	1867.7	1930.5	1932.5	1936.5
50°	1225.4	1383.1	1523.7	1684.9	1769.8	1836.1	1827.0	1831.1
52.5°	1141.0	1289.7	1433.3	1581.5	1665.3	1724.1	1726.6	1718.6
55°	1058.2	1198.3	1330.4	1473.0	1552.8	1598.5	1597.0	1600.0
57.5°	974.3	1105.9	1226.9	1357.5	1435.3	1478.5	1487.5	1477.0
60°	888.9	1012.5	1120.9	1239.0	1314.3	1350.4	1361.0	1350.9
62.5°	804.0	917.5	1016.0	1118.9	1188.7	1233.4	1232.4	1221.4
65°	719.2	822.1	910.0	997.4	1058.2	1102.9	1100.8	1090.8
67.5°	640.8	725.7	804.5	875.4	928.1	958.7	969.3	957.2
70°	554.4	627.8	697.1	753.8	797.5	825.1	835.2	824.6
72.5°	468.1	530.3	579.0	633.8	667.4	690.5	701.1	691.0
75°	382.7	433.9	473.6	516.3	539.9	559.5	571.5	561.5
77.5°	299.8	339.5	371.1	402.3	429.4	433.9	444.5	437.9
80°	221.0	249.6	272.7	293.3	312.9	314.9	323.4	319.4
82.5°	147.1	166.2	172.3	193.9	206.4	204.4	212.9	209.9
85°	77.8	89.4	99.9	106.5	113.5	107.0	114.5	111.5
87.5°	26.1	27.6	24.1	34.2	37.7	32.1	36.7	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)