

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: P837962

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-27-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837962
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-LD4-6LO-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

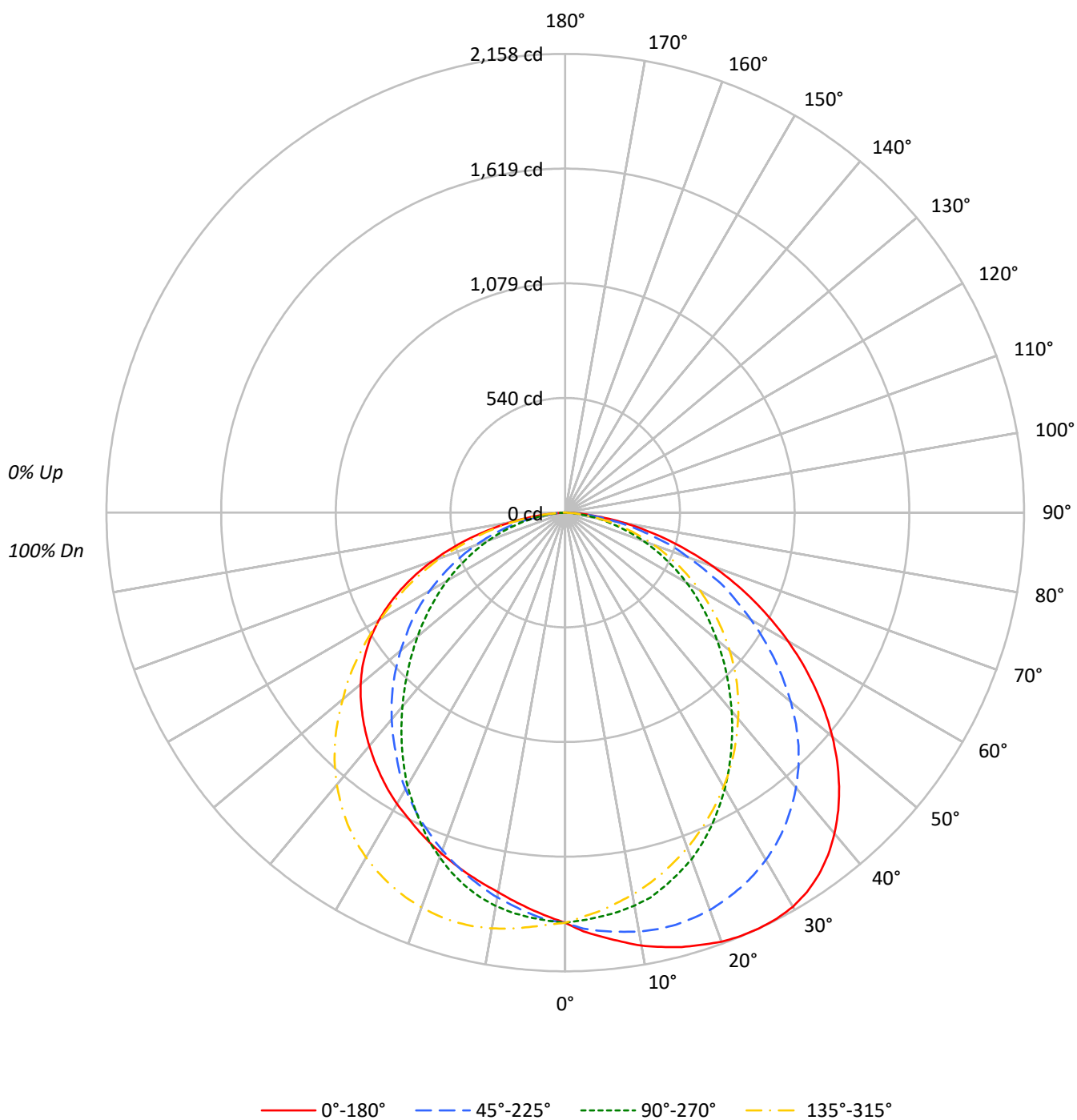
Lumens per Lamp: N/A
Luminaire Lumens: 5660.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	5192	5192	5192	5192
5°	5411	5154	5057	5163
10°	5652	5128	4955	5135
15°	5894	5063	4906	5064
20°	6151	4971	4884	4942
25°	6406	4832	4884	4782
30°	6654	4664	4917	4612
35°	6830	4472	4966	4401
40°	6921	4279	5035	4183
45°	6935	4085	5133	3982
50°	6869	3898	5258	3795
55°	6727	3725	5376	3621
60°	6515	3543	5447	3451
65°	6224	3335	5419	3258
70°	5814	3091	5226	3035
75°	5231	2756	4796	2742
80°	4435	2309	4031	2343
85°	3084	1528	2556	1572

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.2
10°-20°	530.4	9.4
20°-30°	812.9	14.4
30°-40°	988.4	17.5
40°-50°	1027.5	18.2
50°-60°	928.2	16.4
60°-70°	705.7	12.5
70°-80°	393.4	7.0
80°-90°	90.6	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°	1526.5	27.0
0°-40°	2514.9	44.4
0°-60°	4470.7	79.0
0°-90°	5660.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5660.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1929	1929	1929	1929	1929	
5°	2003	1908	1872	1911	2003	193
15°	2116	1817	1761	1818	2116	600
25°	2158	1627	1645	1611	2158	996
35°	2079	1361	1512	1340	2079	1299
45°	1822	1073	1349	1046	1822	1403
55°	1434	794	1146	772	1434	1280
65°	978	524	851	512	978	966
75°	503	265	461	264	503	534
85°	100	50	83	51	100	126
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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1972.0	1943.2	1943.7	1968.9	1949.5	1959.0	1932.0	1942.3	1939.2	1941.4	1919.4
5°	2003.1	1972.0	1971.6	1993.2	1971.6	1975.6	1941.4	1948.2	1938.3	1932.0	1908.1
7.5°	2036.0	2004.9	2001.8	2020.7	1992.3	1989.1	1951.3	1951.3	1933.3	1917.6	1895.1
10°	2068.4	2036.4	2032.4	2046.8	2011.7	2001.3	1955.4	1948.2	1924.3	1900.9	1876.6
12.5°	2092.7	2060.3	2057.1	2066.1	2026.5	2007.6	1955.4	1941.4	1906.3	1873.5	1854.6
15°	2115.6	2082.3	2073.8	2078.3	2032.8	2007.6	1949.1	1927.5	1882.5	1839.3	1817.2
17.5°	2131.8	2099.9	2091.3	2090.9	2036.0	2000.0	1935.6	1905.9	1851.9	1799.7	1777.6
20°	2148.0	2116.1	2105.3	2097.2	2035.1	1989.6	1915.8	1875.7	1812.7	1754.2	1735.8
22.5°	2156.1	2123.3	2111.6	2099.4	2029.2	1970.7	1891.5	1840.6	1768.6	1698.9	1683.6
25°	2157.5	2123.7	2111.1	2093.6	2017.5	1948.2	1860.0	1798.3	1717.8	1640.4	1627.3
27.5°	2153.9	2117.0	2104.4	2083.2	2000.0	1920.7	1822.6	1750.2	1663.8	1578.3	1564.3
30°	2141.3	2103.9	2091.8	2064.3	1975.2	1887.0	1781.7	1696.6	1603.9	1513.0	1500.9
32.5°	2116.1	2079.6	2069.7	2042.3	1948.2	1847.8	1734.0	1639.0	1537.8	1450.9	1432.9
35°	2079.2	2042.7	2036.4	2007.6	1910.4	1801.0	1681.8	1576.0	1467.6	1378.9	1361.4
37.5°	2031.0	2000.4	1990.9	1962.6	1865.8	1747.9	1621.9	1507.6	1396.0	1300.6	1289.8
40°	1970.2	1941.4	1934.2	1909.0	1814.1	1689.0	1557.1	1437.0	1322.2	1233.5	1218.2
42.5°	1900.9	1873.9	1869.9	1843.8	1750.2	1623.7	1486.9	1363.6	1245.2	1159.7	1144.4
45°	1822.2	1796.1	1795.2	1770.4	1680.4	1551.3	1413.1	1289.3	1170.1	1081.4	1073.3
47.5°	1735.3	1711.9	1711.9	1689.0	1602.6	1471.6	1337.1	1211.9	1094.5	1016.2	1001.8
50°	1640.8	1618.8	1612.0	1600.8	1516.6	1384.8	1256.9	1136.3	1019.8	945.1	931.1
52.5°	1540.0	1521.1	1525.6	1504.9	1423.5	1294.3	1175.9	1051.3	944.6	876.7	862.7
55°	1433.8	1406.8	1410.9	1403.2	1326.2	1201.1	1085.0	981.1	870.8	806.9	793.9
57.5°	1323.5	1288.4	1302.8	1298.3	1222.7	1105.7	1001.8	901.4	797.5	738.5	725.9
60°	1210.6	1176.8	1191.7	1187.6	1116.5	1010.3	915.8	822.7	724.6	671.0	658.4
62.5°	1094.5	1063.4	1076.9	1073.8	1008.5	912.7	830.3	744.8	651.2	603.0	591.3
65°	977.5	947.8	959.9	957.7	897.4	824.5	742.6	664.2	577.4	535.5	523.8
67.5°	857.8	830.3	841.6	841.6	786.2	716.5	654.3	582.8	504.9	468.9	458.1
70°	739.0	713.3	723.2	722.3	675.5	618.8	565.2	501.3	431.6	401.9	392.9
72.5°	619.2	596.7	605.7	604.8	565.7	529.2	476.1	420.8	360.0	336.2	328.1
75°	503.1	482.0	490.5	489.6	457.7	423.5	387.9	342.0	289.8	273.2	265.1
77.5°	392.4	370.8	378.0	378.0	354.6	329.9	301.5	266.0	229.1	211.1	205.2
80°	286.2	275.9	272.3	272.7	257.0	240.8	226.4	192.2	165.2	153.0	149.0
82.5°	188.1	179.6	176.0	176.9	167.9	158.0	149.0	125.1	107.1	99.9	97.7
85°	99.9	93.6	90.5	92.7	90.9	85.5	81.0	64.8	53.6	50.9	49.5
87.5°	31.5	27.5	25.2	33.3	28.4	25.2	24.3	19.4	14.9	14.9	14.4
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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1926.6	1926.6	1909.0	1905.0	1903.2	1905.4	1887.9	1884.7	1909.9	1901.4	1882.0
5°	1911.3	1910.4	1885.6	1881.1	1881.1	1878.4	1858.6	1854.1	1879.3	1872.1	1851.0
7.5°	1892.4	1889.7	1860.4	1857.3	1852.8	1851.0	1828.9	1825.8	1847.4	1842.9	1823.1
10°	1869.4	1866.7	1832.1	1829.8	1824.9	1821.3	1800.6	1798.3	1820.4	1813.2	1797.4
12.5°	1839.3	1834.3	1798.8	1796.5	1792.5	1791.1	1770.9	1770.0	1794.3	1787.1	1770.4
15°	1799.7	1795.6	1756.0	1756.9	1757.4	1757.4	1741.2	1740.3	1764.1	1761.0	1743.0
17.5°	1756.0	1750.6	1712.8	1715.5	1718.7	1722.3	1709.7	1711.9	1737.1	1733.1	1716.9
20°	1706.5	1701.1	1664.2	1671.9	1678.6	1685.8	1677.7	1684.0	1707.4	1705.6	1693.5
22.5°	1651.2	1645.8	1611.6	1623.3	1634.5	1648.0	1644.4	1651.6	1676.4	1675.9	1665.1
25°	1583.7	1585.0	1554.9	1569.3	1588.2	1607.1	1608.4	1620.1	1647.6	1644.9	1635.0
27.5°	1520.7	1522.5	1490.5	1514.8	1540.0	1564.3	1570.2	1586.4	1614.3	1612.0	1603.5
30°	1454.5	1456.8	1425.7	1459.0	1489.6	1519.3	1531.9	1554.0	1582.3	1582.3	1573.3
32.5°	1385.7	1389.7	1357.3	1401.9	1437.4	1472.1	1494.1	1517.1	1549.5	1548.6	1540.9
35°	1315.0	1319.5	1289.8	1346.5	1382.1	1424.4	1451.8	1482.4	1511.2	1511.7	1505.8
37.5°	1243.0	1248.4	1221.4	1283.5	1324.0	1374.0	1409.1	1439.7	1471.6	1473.4	1468.0
40°	1171.4	1177.3	1153.9	1213.7	1265.0	1320.8	1361.4	1397.4	1432.5	1433.4	1429.8
42.5°	1099.9	1106.2	1088.6	1147.1	1205.2	1265.0	1312.7	1353.7	1389.7	1392.0	1387.9
45°	1030.1	1035.5	1022.9	1086.8	1142.6	1207.9	1262.8	1309.1	1345.6	1348.8	1347.4
47.5°	960.8	965.8	954.5	1013.0	1077.4	1146.7	1210.1	1261.4	1300.1	1303.7	1302.8
50°	892.9	896.9	884.8	946.0	1009.9	1083.7	1149.8	1209.2	1252.4	1256.0	1255.6
52.5°	825.4	829.4	819.1	883.4	941.5	1019.3	1091.3	1155.7	1198.4	1203.8	1204.7
55°	760.1	761.9	753.8	815.5	871.7	953.2	1036.0	1098.5	1141.3	1145.8	1148.5
57.5°	694.9	695.3	688.6	747.5	801.5	884.8	971.6	1037.3	1077.8	1082.3	1086.4
60°	630.0	629.6	621.9	679.1	730.9	813.2	903.7	968.9	1008.1	1012.1	1017.5
62.5°	565.7	564.3	557.6	610.2	658.8	740.3	831.2	894.2	931.6	934.3	941.5
65°	501.8	500.4	494.1	542.7	586.8	664.7	753.8	813.7	847.4	851.0	849.7
67.5°	438.8	436.1	431.1	474.8	514.8	586.8	672.4	729.5	757.4	760.6	769.1
70°	375.8	372.6	361.4	407.7	442.8	507.2	586.8	637.7	661.1	664.2	662.9
72.5°	313.7	310.5	298.4	341.1	370.8	427.1	498.2	540.5	560.7	563.4	563.4
75°	253.4	251.6	243.9	276.3	301.1	347.0	407.3	442.4	458.1	461.3	460.4
77.5°	195.3	194.0	186.3	214.2	233.6	267.8	316.4	343.8	355.5	359.1	366.8
80°	140.0	139.5	127.4	154.8	163.4	192.2	227.7	248.9	255.2	260.1	265.5
82.5°	89.6	90.0	77.9	101.3	104.9	123.3	145.4	158.4	162.9	167.0	171.0
85°	43.7	45.5	38.7	53.6	54.0	63.5	72.9	77.9	79.7	82.8	86.4
87.5°	11.3	13.1	7.2	15.3	13.5	17.6	20.3	21.6	21.2	23.4	24.8
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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1888.3	1902.7	1895.5	1918.9	1927.9	1913.5	1938.7	1939.2	1921.2	1942.3	1954.0
5°	1859.1	1873.9	1869.4	1893.7	1905.0	1892.4	1923.0	1928.8	1911.3	1935.1	1954.0
7.5°	1829.4	1846.9	1841.1	1865.8	1879.3	1869.4	1902.3	1911.7	1898.2	1924.3	1949.5
10°	1803.7	1818.6	1812.3	1838.4	1850.1	1842.0	1874.4	1891.9	1879.3	1911.3	1941.4
12.5°	1778.5	1790.7	1783.5	1805.1	1816.3	1806.0	1845.6	1861.8	1852.8	1886.1	1924.8
15°	1746.1	1759.6	1749.7	1769.1	1777.6	1768.6	1801.0	1828.9	1817.7	1854.1	1896.9
17.5°	1721.4	1729.0	1715.5	1730.8	1735.8	1723.6	1756.5	1783.9	1775.8	1815.4	1864.9
20°	1693.9	1700.2	1681.3	1689.9	1689.4	1674.1	1704.3	1731.3	1725.9	1769.5	1825.8
22.5°	1663.3	1666.5	1644.4	1646.2	1645.3	1620.1	1647.1	1674.6	1672.3	1716.4	1779.4
25°	1630.9	1631.4	1603.0	1602.1	1592.2	1562.5	1586.4	1617.4	1610.7	1658.4	1724.5
27.5°	1599.0	1594.5	1560.3	1552.2	1536.4	1500.9	1522.0	1549.9	1545.9	1592.7	1666.0
30°	1564.8	1558.9	1517.1	1502.2	1479.3	1438.3	1455.9	1482.0	1484.2	1525.2	1602.1
32.5°	1532.4	1517.5	1471.2	1449.6	1420.8	1373.1	1382.5	1409.1	1412.7	1454.1	1533.3
35°	1490.5	1480.6	1423.5	1386.6	1358.2	1306.0	1315.9	1334.4	1339.8	1380.3	1460.8
37.5°	1450.9	1435.2	1374.4	1329.4	1292.9	1238.0	1240.7	1259.6	1265.0	1306.0	1385.7
40°	1410.0	1387.5	1322.2	1269.5	1227.7	1170.1	1166.9	1186.7	1190.8	1230.8	1302.8
42.5°	1366.3	1339.3	1265.9	1208.3	1160.2	1101.7	1095.4	1112.5	1117.0	1156.1	1226.8
45°	1322.2	1289.8	1208.3	1145.3	1092.7	1032.8	1026.5	1039.6	1046.3	1083.2	1151.2
47.5°	1275.4	1237.6	1148.9	1078.7	1024.3	964.4	956.8	969.8	975.2	1011.7	1076.0
50°	1226.3	1180.4	1087.7	1010.3	956.3	897.4	886.1	901.4	906.4	940.6	1003.6
52.5°	1172.3	1121.5	1022.5	941.5	887.5	831.2	817.7	832.6	838.4	871.7	929.8
55°	1115.2	1060.3	956.8	878.0	819.5	764.6	753.4	759.2	771.8	803.3	857.3
57.5°	1050.8	996.4	887.5	807.4	751.1	698.5	689.0	694.4	706.1	736.7	785.3
60°	982.4	924.8	816.8	736.7	682.3	632.3	623.7	628.7	641.3	669.2	714.2
62.5°	914.9	850.1	743.9	664.2	614.7	568.4	566.1	564.3	576.0	603.0	642.6
65°	833.0	770.9	667.9	592.2	547.2	505.4	496.4	500.4	511.7	536.4	577.8
67.5°	745.3	689.0	590.0	520.2	480.2	442.8	435.2	437.0	448.7	470.3	506.3
70°	652.1	602.6	510.3	447.8	414.0	378.9	374.0	374.4	385.7	404.6	436.1
72.5°	554.4	509.9	429.8	376.2	348.3	323.1	318.6	313.2	323.6	339.8	366.8
75°	455.0	415.8	349.7	306.0	284.0	262.8	258.8	253.4	263.7	277.7	298.8
77.5°	354.6	323.1	271.8	238.1	221.0	205.2	201.6	195.8	206.1	216.5	233.1
80°	256.5	233.6	203.0	167.4	161.6	151.2	147.6	141.3	151.2	158.0	170.6
82.5°	165.6	150.3	132.8	108.0	107.1	99.5	97.7	90.5	99.5	103.5	113.0
85°	83.7	76.5	72.0	54.9	56.7	51.8	51.3	43.7	50.9	52.7	58.1
87.5°	23.9	25.2	22.5	13.5	17.1	16.2	16.2	11.7	16.2	16.2	18.5
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: P837962

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1931.1	1938.7	1940.5	1940.1	1945.0	1972.0	1963.0	1972.0
5°	1935.6	1952.7	1957.2	1963.5	1971.6	2002.2	1992.3	2003.1
7.5°	1938.3	1963.9	1973.8	1986.0	1999.0	2033.3	2025.2	2036.0
10°	1938.3	1971.6	1986.0	2006.3	2023.8	2063.4	2055.8	2068.4
12.5°	1930.2	1972.9	1993.2	2021.6	2044.1	2086.8	2083.7	2092.7
15°	1913.5	1966.2	1994.1	2030.6	2058.5	2106.2	2104.8	2115.6
17.5°	1891.0	1954.5	1988.2	2034.2	2069.3	2122.8	2126.0	2131.8
20°	1862.7	1932.4	1976.5	2032.8	2076.9	2135.9	2139.9	2148.0
22.5°	1825.3	1905.9	1959.0	2027.0	2077.8	2141.3	2148.5	2156.1
25°	1781.2	1873.9	1936.0	2015.7	2073.3	2140.8	2150.7	2157.5
27.5°	1730.8	1832.5	1906.8	1997.7	2060.7	2133.6	2145.8	2153.9
30°	1672.3	1788.4	1873.5	1974.3	2043.6	2120.1	2133.2	2141.3
32.5°	1612.0	1739.8	1833.9	1944.1	2018.9	2098.5	2109.8	2116.1
35°	1546.3	1680.9	1786.2	1905.4	1986.9	2063.9	2072.4	2079.2
37.5°	1474.8	1617.0	1731.7	1861.8	1941.9	2015.7	2023.4	2031.0
40°	1401.0	1549.9	1670.5	1808.2	1888.3	1956.7	1964.8	1970.2
42.5°	1326.7	1475.7	1605.3	1745.2	1824.9	1890.6	1895.5	1900.9
45°	1251.5	1398.7	1531.9	1675.5	1754.2	1815.9	1817.7	1822.2
47.5°	1175.0	1319.0	1451.4	1595.8	1673.7	1729.9	1731.7	1735.3
50°	1098.1	1239.4	1365.4	1509.9	1585.9	1645.3	1637.2	1640.8
52.5°	1022.5	1155.7	1284.4	1417.2	1492.3	1545.0	1547.2	1540.0
55°	948.2	1073.8	1192.1	1319.9	1391.5	1432.5	1431.1	1433.8
57.5°	873.1	991.0	1099.4	1216.4	1286.2	1324.9	1333.0	1323.5
60°	796.6	907.3	1004.5	1110.2	1177.7	1210.1	1219.6	1210.6
62.5°	720.5	822.2	910.4	1002.7	1065.2	1105.3	1104.4	1094.5
65°	644.4	736.7	815.5	893.8	948.2	988.3	986.5	977.5
67.5°	574.2	650.3	721.0	784.4	831.7	859.1	868.6	857.8
70°	496.8	562.5	624.6	675.5	714.7	739.4	748.4	739.0
72.5°	419.4	475.2	518.9	567.9	598.1	618.8	628.2	619.2
75°	342.9	388.8	424.4	462.6	483.8	501.3	512.1	503.1
77.5°	268.7	304.2	332.6	360.5	384.8	388.8	398.3	392.4
80°	198.0	223.7	244.4	262.8	280.4	282.2	289.8	286.2
82.5°	131.9	149.0	154.4	173.7	185.0	183.2	190.8	188.1
85°	69.8	80.1	89.6	95.4	101.7	95.9	102.6	99.9
87.5°	23.4	24.8	21.6	30.6	33.8	28.8	32.9	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)