

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: P837993

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-35-120-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: P837993
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-LD4-4STD-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

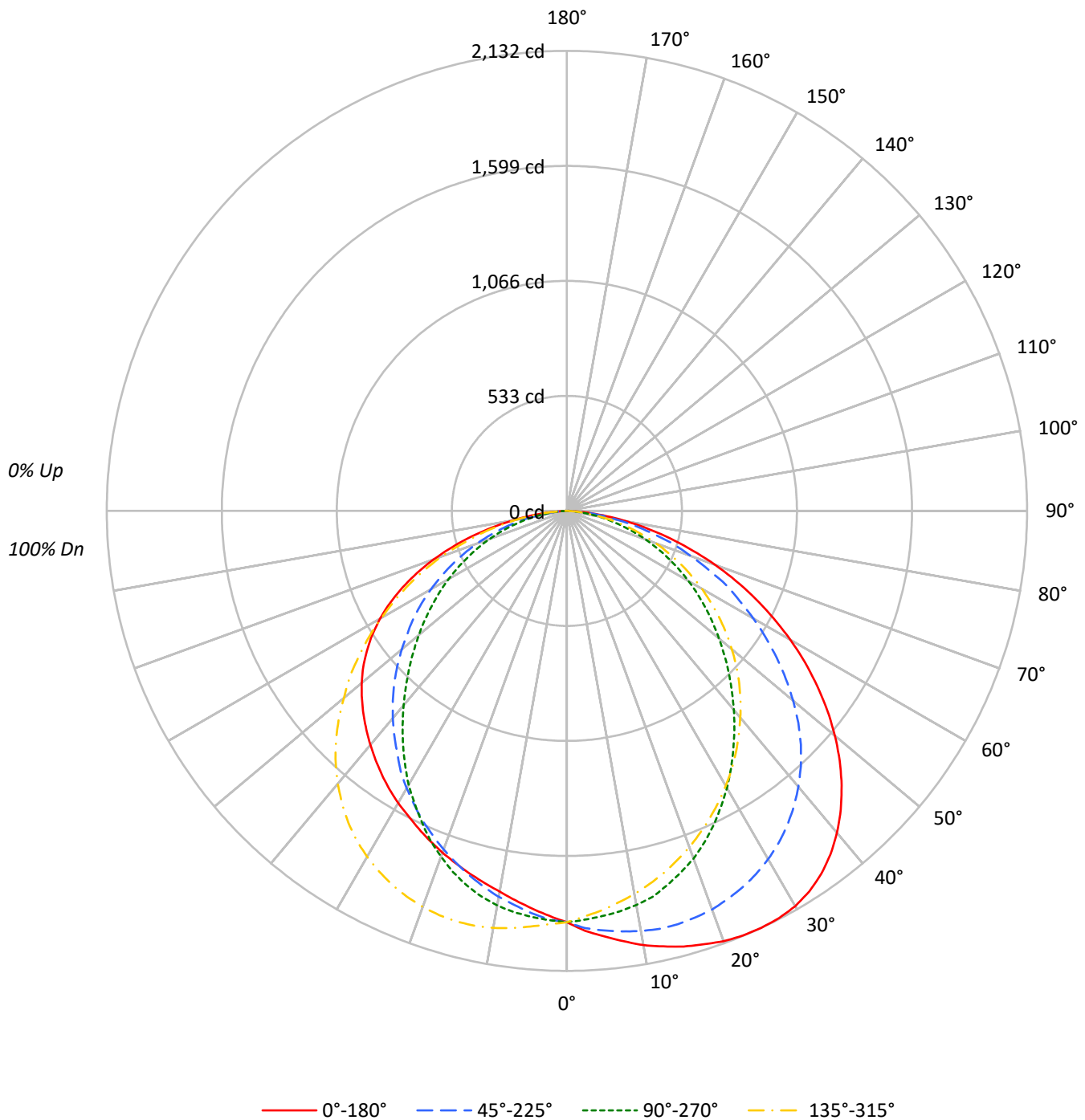
Lumens per Lamp: N/A
Luminaire Lumens: 5592.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5130	5130	5130	5130
5°	5346	5093	4997	5101
10°	5584	5067	4895	5074
15°	5823	5002	4847	5003
20°	6078	4911	4826	4883
25°	6329	4774	4825	4725
30°	6574	4608	4858	4557
35°	6748	4418	4907	4348
40°	6838	4228	4975	4133
45°	6852	4036	5071	3934
50°	6787	3852	5195	3749
55°	6646	3680	5311	3578
60°	6437	3501	5382	3410
65°	6150	3296	5354	3219
70°	5744	3054	5164	2998
75°	5168	2723	4739	2709
80°	4382	2281	3983	2315
85°	3047	1510	2526	1550

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	3.2
10°-20°	524.1	9.4
20°-30°	803.2	14.4
30°-40°	976.6	17.5
40°-50°	1015.2	18.2
50°-60°	917.1	16.4
60°-70°	697.2	12.5
70°-80°	388.7	7.0
80°-90°	89.5	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°	1508.2	27.0
0°-40°	2484.8	44.4
0°-60°	4417.1	79.0
0°-90°	5592.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5592.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1906	1906	1906	1906	1906	
5°	1979	1885	1850	1888	1979	191
15°	2090	1796	1740	1796	2090	593
25°	2132	1608	1625	1591	2132	985
35°	2054	1345	1494	1324	2054	1283
45°	1800	1060	1333	1034	1800	1386
55°	1417	784	1132	763	1417	1265
65°	966	518	841	506	966	954
75°	497	262	456	261	497	528
85°	99	49	82	50	99	124
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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1948.4	1920.0	1920.4	1945.3	1926.2	1935.5	1908.8	1919.1	1916.0	1918.2	1896.4
5°	1979.1	1948.4	1948.0	1969.3	1948.0	1952.0	1918.2	1924.9	1915.1	1908.8	1885.3
7.5°	2011.6	1980.9	1977.8	1996.4	1968.4	1965.3	1928.0	1928.0	1910.2	1894.6	1872.4
10°	2043.6	2012.0	2008.0	2022.2	1987.6	1977.3	1932.0	1924.9	1901.3	1878.2	1854.2
12.5°	2067.6	2035.6	2032.5	2041.4	2002.2	1983.5	1932.0	1918.2	1883.5	1851.0	1832.4
15°	2090.3	2057.4	2048.9	2053.4	2008.4	1983.5	1925.7	1904.4	1859.9	1817.3	1795.5
17.5°	2106.3	2074.7	2066.3	2065.8	2011.6	1976.0	1912.4	1883.1	1829.7	1778.1	1756.3
20°	2122.3	2090.7	2080.0	2072.0	2010.7	1965.8	1892.8	1853.3	1791.0	1733.2	1715.0
22.5°	2130.3	2097.8	2086.3	2074.3	2004.9	1947.1	1868.8	1818.6	1747.4	1678.5	1663.4
25°	2131.6	2098.3	2085.8	2068.5	1993.3	1924.9	1837.7	1776.8	1697.2	1620.7	1607.8
27.5°	2128.1	2091.6	2079.1	2058.2	1976.0	1897.7	1800.8	1729.2	1643.8	1559.4	1545.6
30°	2115.6	2078.7	2066.7	2039.6	1951.5	1864.4	1760.3	1676.3	1584.7	1494.9	1482.9
32.5°	2090.7	2054.7	2044.9	2017.8	1924.9	1825.7	1713.2	1619.4	1519.3	1433.5	1415.7
35°	2054.2	2018.2	2012.0	1983.5	1887.5	1779.5	1661.6	1557.1	1450.0	1362.4	1345.0
37.5°	2006.7	1976.4	1967.1	1939.1	1843.5	1727.0	1602.5	1489.6	1379.3	1285.0	1274.3
40°	1946.6	1918.2	1911.1	1886.2	1792.4	1668.7	1538.5	1419.7	1306.4	1218.8	1203.6
42.5°	1878.2	1851.5	1847.5	1821.7	1729.2	1604.3	1469.1	1347.3	1230.3	1145.8	1130.7
45°	1800.4	1774.6	1773.7	1749.2	1660.3	1532.7	1396.2	1273.9	1156.1	1068.5	1060.5
47.5°	1714.5	1691.4	1691.4	1668.7	1583.4	1454.0	1321.0	1197.4	1081.4	1004.0	989.8
50°	1621.2	1599.4	1592.7	1581.6	1498.4	1368.2	1241.9	1122.7	1007.6	933.7	920.0
52.5°	1521.6	1502.9	1507.3	1486.9	1406.4	1278.8	1161.8	1038.7	933.3	866.2	852.4
55°	1416.6	1390.0	1394.0	1386.4	1310.4	1186.7	1072.0	969.3	860.4	797.2	784.3
57.5°	1307.7	1273.0	1287.2	1282.8	1208.1	1092.5	989.8	890.6	787.9	729.7	717.2
60°	1196.1	1162.7	1177.4	1173.4	1103.2	998.2	904.8	812.8	715.9	663.0	650.5
62.5°	1081.4	1050.7	1064.0	1060.9	996.4	901.7	820.4	735.9	643.4	595.8	584.3
65°	965.8	936.4	948.4	946.2	886.6	814.6	733.7	656.3	570.5	529.1	517.6
67.5°	847.5	820.4	831.5	831.5	776.8	707.9	646.5	575.8	498.9	463.3	452.6
70°	730.1	704.8	714.5	713.7	667.4	611.4	558.5	495.3	426.4	397.1	388.2
72.5°	611.8	589.6	598.5	597.6	558.9	522.9	470.4	415.7	355.7	332.1	324.1
75°	497.1	476.2	484.7	483.8	452.2	418.4	383.3	337.9	286.3	269.9	261.9
77.5°	387.7	366.4	373.5	373.5	350.4	325.9	297.9	262.8	226.3	208.5	202.8
80°	282.8	272.6	269.0	269.5	253.9	237.9	223.7	189.9	163.2	151.2	147.2
82.5°	185.9	177.4	173.9	174.7	165.9	156.1	147.2	123.6	105.8	98.7	96.5
85°	98.7	92.5	89.4	91.6	89.8	84.5	80.0	64.0	52.9	50.2	48.9
87.5°	31.1	27.1	24.9	32.9	28.0	24.9	24.0	19.1	14.7	14.7	14.2
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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1903.5	1903.5	1886.2	1882.2	1880.4	1882.6	1865.3	1862.2	1887.1	1878.6	1859.5
5°	1888.4	1887.5	1863.1	1858.6	1858.6	1855.9	1836.4	1831.9	1856.8	1849.7	1828.8
7.5°	1869.7	1867.1	1838.2	1835.0	1830.6	1828.8	1807.0	1803.9	1825.3	1820.8	1801.2
10°	1847.0	1844.4	1810.1	1807.9	1803.0	1799.5	1779.0	1776.8	1798.6	1791.5	1775.9
12.5°	1817.3	1812.4	1777.2	1775.0	1771.0	1769.7	1749.7	1748.8	1772.8	1765.7	1749.2
15°	1778.1	1774.1	1735.0	1735.9	1736.3	1736.3	1720.3	1719.4	1743.0	1739.9	1722.1
17.5°	1735.0	1729.7	1692.3	1695.0	1698.1	1701.6	1689.2	1691.4	1716.3	1712.3	1696.3
20°	1686.1	1680.7	1644.3	1651.8	1658.5	1665.6	1657.6	1663.9	1687.0	1685.2	1673.2
22.5°	1631.4	1626.1	1592.3	1603.8	1614.9	1628.3	1624.7	1631.8	1656.3	1655.8	1645.2
25°	1564.7	1566.0	1536.2	1550.5	1569.1	1587.8	1589.2	1600.7	1627.8	1625.2	1615.4
27.5°	1502.4	1504.2	1472.7	1496.7	1521.6	1545.6	1551.4	1567.4	1594.9	1592.7	1584.3
30°	1437.1	1439.3	1408.6	1441.5	1471.8	1501.1	1513.6	1535.3	1563.4	1563.4	1554.5
32.5°	1369.1	1373.1	1341.0	1385.1	1420.2	1454.4	1476.2	1498.9	1530.9	1530.0	1522.5
35°	1299.2	1303.7	1274.3	1330.4	1365.5	1407.3	1434.4	1464.7	1493.1	1493.6	1487.8
37.5°	1228.1	1233.4	1206.8	1268.1	1308.1	1357.5	1392.2	1422.4	1454.0	1455.8	1450.4
40°	1157.4	1163.2	1140.1	1199.2	1249.9	1305.0	1345.0	1380.6	1415.3	1416.2	1412.6
42.5°	1086.7	1092.9	1075.6	1133.4	1190.8	1249.9	1297.0	1337.5	1373.1	1375.3	1371.3
45°	1017.8	1023.1	1010.7	1073.8	1128.9	1193.4	1247.7	1293.5	1329.5	1332.6	1331.3
47.5°	949.3	954.2	943.1	1000.9	1064.5	1132.9	1195.6	1246.3	1284.6	1288.1	1287.2
50°	882.2	886.2	874.2	934.6	997.8	1070.7	1136.1	1194.8	1237.4	1241.0	1240.6
52.5°	815.5	819.5	809.2	872.8	930.2	1007.1	1078.3	1141.8	1184.1	1189.4	1190.3
55°	751.0	752.8	744.8	805.7	861.3	941.8	1023.6	1085.4	1127.6	1132.1	1134.7
57.5°	686.5	687.0	680.3	738.6	791.9	874.2	960.0	1024.9	1064.9	1069.4	1073.4
60°	622.5	622.1	614.5	671.0	722.1	803.5	892.8	957.3	996.0	1000.0	1005.3
62.5°	558.9	557.6	550.9	602.9	651.0	731.4	821.3	883.5	920.4	923.1	930.2
65°	495.8	494.4	488.2	536.2	579.8	656.7	744.8	803.9	837.3	840.8	839.5
67.5°	433.5	430.9	426.0	469.1	508.7	579.8	664.3	720.8	748.3	751.4	759.9
70°	371.3	368.2	357.0	402.8	437.5	501.1	579.8	630.1	653.2	656.3	655.0
72.5°	309.9	306.8	294.8	337.0	366.4	422.0	492.2	534.0	554.0	556.7	556.7
75°	250.3	248.6	241.0	273.0	297.5	342.8	402.4	437.1	452.6	455.8	454.9
77.5°	193.0	191.6	184.1	211.6	230.8	264.6	312.6	339.7	351.3	354.8	362.4
80°	138.3	137.8	125.8	153.0	161.4	189.9	225.0	245.9	252.1	257.0	262.3
82.5°	88.5	88.9	76.9	100.0	103.6	121.8	143.6	156.5	161.0	165.0	169.0
85°	43.1	44.9	38.2	52.9	53.4	62.7	72.0	76.9	78.7	81.8	85.4
87.5°	11.1	12.9	7.1	15.1	13.3	17.3	20.0	21.3	20.9	23.1	24.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1865.7	1879.9	1872.8	1896.0	1904.8	1890.6	1915.5	1916.0	1898.2	1919.1	1930.6
5°	1836.8	1851.5	1847.0	1871.1	1882.2	1869.7	1900.0	1905.7	1888.4	1912.0	1930.6
7.5°	1807.5	1824.8	1819.0	1843.5	1856.8	1847.0	1879.5	1888.8	1875.5	1901.3	1926.2
10°	1782.1	1796.8	1790.6	1816.4	1827.9	1819.9	1851.9	1869.3	1856.8	1888.4	1918.2
12.5°	1757.2	1769.2	1762.1	1783.5	1794.6	1784.3	1823.5	1839.5	1830.6	1863.5	1901.7
15°	1725.2	1738.6	1728.8	1747.9	1756.3	1747.4	1779.5	1807.0	1795.9	1831.9	1874.2
17.5°	1700.8	1708.3	1695.0	1710.1	1715.0	1703.0	1735.4	1762.6	1754.6	1793.7	1842.6
20°	1673.6	1679.9	1661.2	1669.6	1669.2	1654.1	1683.9	1710.5	1705.2	1748.3	1803.9
22.5°	1643.4	1646.5	1624.7	1626.5	1625.6	1600.7	1627.4	1654.5	1652.3	1695.9	1758.1
25°	1611.4	1611.8	1583.8	1582.9	1573.1	1543.8	1567.4	1598.0	1591.4	1638.5	1703.9
27.5°	1579.8	1575.4	1541.6	1533.6	1518.0	1482.9	1503.8	1531.3	1527.3	1573.6	1646.1
30°	1546.0	1540.2	1498.9	1484.2	1461.5	1421.1	1438.4	1464.2	1466.4	1506.9	1582.9
32.5°	1514.0	1499.3	1453.5	1432.2	1403.7	1356.6	1365.9	1392.2	1395.7	1436.6	1514.9
35°	1472.7	1462.9	1406.4	1369.9	1341.9	1290.4	1300.1	1318.4	1323.7	1363.7	1443.3
37.5°	1433.5	1418.0	1357.9	1313.5	1277.5	1223.2	1225.9	1244.6	1249.9	1290.4	1369.1
40°	1393.1	1370.8	1306.4	1254.3	1213.0	1156.1	1153.0	1172.5	1176.5	1216.1	1287.2
42.5°	1349.9	1323.3	1250.8	1193.9	1146.3	1088.5	1082.3	1099.2	1103.6	1142.3	1212.1
45°	1306.4	1274.3	1193.9	1131.6	1079.6	1020.5	1014.2	1027.1	1033.8	1070.3	1137.4
47.5°	1260.1	1222.8	1135.2	1065.8	1012.0	952.9	945.3	958.2	963.5	999.6	1063.1
50°	1211.6	1166.3	1074.7	998.2	944.9	886.6	875.5	890.6	895.5	929.3	991.6
52.5°	1158.3	1108.0	1010.2	930.2	876.8	821.3	807.9	822.6	828.4	861.3	918.6
55°	1101.8	1047.6	945.3	867.5	809.7	755.4	744.3	750.1	762.6	793.7	847.0
57.5°	1038.2	984.4	876.8	797.7	742.1	690.1	680.7	686.1	697.6	727.9	775.9
60°	970.7	913.7	807.0	727.9	674.1	624.7	616.3	621.2	633.6	661.2	705.6
62.5°	904.0	839.9	735.0	656.3	607.4	561.6	559.4	557.6	569.1	595.8	634.9
65°	823.0	761.7	659.8	585.1	540.7	499.3	490.4	494.4	505.6	530.0	570.9
67.5°	736.3	680.7	582.9	514.0	474.4	437.5	430.0	431.7	443.3	464.7	500.2
70°	644.3	595.4	504.2	442.4	409.1	374.4	369.5	369.9	381.1	399.7	430.9
72.5°	547.8	503.8	424.6	371.7	344.2	319.3	314.8	309.5	319.7	335.7	362.4
75°	449.5	410.8	345.5	302.4	280.6	259.7	255.7	250.3	260.6	274.3	295.2
77.5°	350.4	319.3	268.6	235.2	218.3	202.8	199.2	193.4	203.6	213.9	230.3
80°	253.4	230.8	200.5	165.4	159.6	149.4	145.8	139.6	149.4	156.1	168.5
82.5°	163.6	148.5	131.2	106.7	105.8	98.3	96.5	89.4	98.3	102.3	111.6
85°	82.7	75.6	71.1	54.2	56.0	51.1	50.7	43.1	50.2	52.0	57.4
87.5°	23.6	24.9	22.2	13.3	16.9	16.0	16.0	11.6	16.0	16.0	18.2
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: P837993

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1908.0	1915.5	1917.3	1916.9	1921.7	1948.4	1939.5	1948.4
5°	1912.4	1929.3	1933.7	1940.0	1948.0	1978.2	1968.4	1979.1
7.5°	1915.1	1940.4	1950.2	1962.2	1975.1	2008.9	2000.9	2011.6
10°	1915.1	1948.0	1962.2	1982.2	1999.6	2038.7	2031.1	2043.6
12.5°	1907.1	1949.3	1969.3	1997.3	2019.6	2061.8	2058.7	2067.6
15°	1890.6	1942.6	1970.2	2006.2	2033.8	2080.9	2079.6	2090.3
17.5°	1868.4	1931.1	1964.4	2009.8	2044.5	2097.4	2100.5	2106.3
20°	1840.4	1909.3	1952.9	2008.4	2052.0	2110.3	2114.3	2122.3
22.5°	1803.5	1883.1	1935.5	2002.7	2052.9	2115.6	2122.7	2130.3
25°	1759.9	1851.5	1912.9	1991.6	2048.5	2115.2	2124.9	2131.6
27.5°	1710.1	1810.6	1883.9	1973.8	2036.0	2108.0	2120.1	2128.1
30°	1652.3	1767.0	1851.0	1950.6	2019.1	2094.7	2107.6	2115.6
32.5°	1592.7	1719.0	1811.9	1920.9	1994.7	2073.4	2084.5	2090.7
35°	1527.8	1660.7	1764.8	1882.6	1963.1	2039.1	2047.6	2054.2
37.5°	1457.1	1597.6	1711.0	1839.5	1918.6	1991.6	1999.1	2006.7
40°	1384.2	1531.3	1650.5	1786.6	1865.7	1933.3	1941.3	1946.6
42.5°	1310.8	1458.0	1586.0	1724.3	1803.0	1867.9	1872.8	1878.2
45°	1236.5	1381.9	1513.6	1655.4	1733.2	1794.1	1795.9	1800.4
47.5°	1161.0	1303.2	1434.0	1576.7	1653.6	1709.2	1711.0	1714.5
50°	1084.9	1224.5	1349.0	1491.8	1566.9	1625.6	1617.6	1621.2
52.5°	1010.2	1141.8	1269.0	1400.2	1474.4	1526.5	1528.7	1521.6
55°	936.9	1060.9	1177.9	1304.1	1374.8	1415.3	1414.0	1416.6
57.5°	862.6	979.1	1086.3	1201.9	1270.8	1309.0	1317.0	1307.7
60°	787.0	896.4	992.4	1096.9	1163.6	1195.6	1205.0	1196.1
62.5°	711.9	812.4	899.5	990.7	1052.5	1092.0	1091.2	1081.4
65°	636.7	727.9	805.7	883.1	936.9	976.4	974.7	965.8
67.5°	567.4	642.5	712.3	775.0	821.7	848.8	858.2	847.5
70°	490.9	555.8	617.2	667.4	706.1	730.5	739.4	730.1
72.5°	414.4	469.5	512.7	561.1	590.9	611.4	620.7	611.8
75°	338.8	384.2	419.3	457.1	478.0	495.3	506.0	497.1
77.5°	265.5	300.6	328.6	356.2	380.2	384.2	393.5	387.7
80°	195.6	221.0	241.4	259.7	277.0	278.8	286.3	282.8
82.5°	130.3	147.2	152.5	171.6	182.7	181.0	188.5	185.9
85°	68.9	79.1	88.5	94.3	100.5	94.7	101.4	98.7
87.5°	23.1	24.5	21.3	30.2	33.3	28.5	32.5	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)