

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: P837998

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-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: P837998
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-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

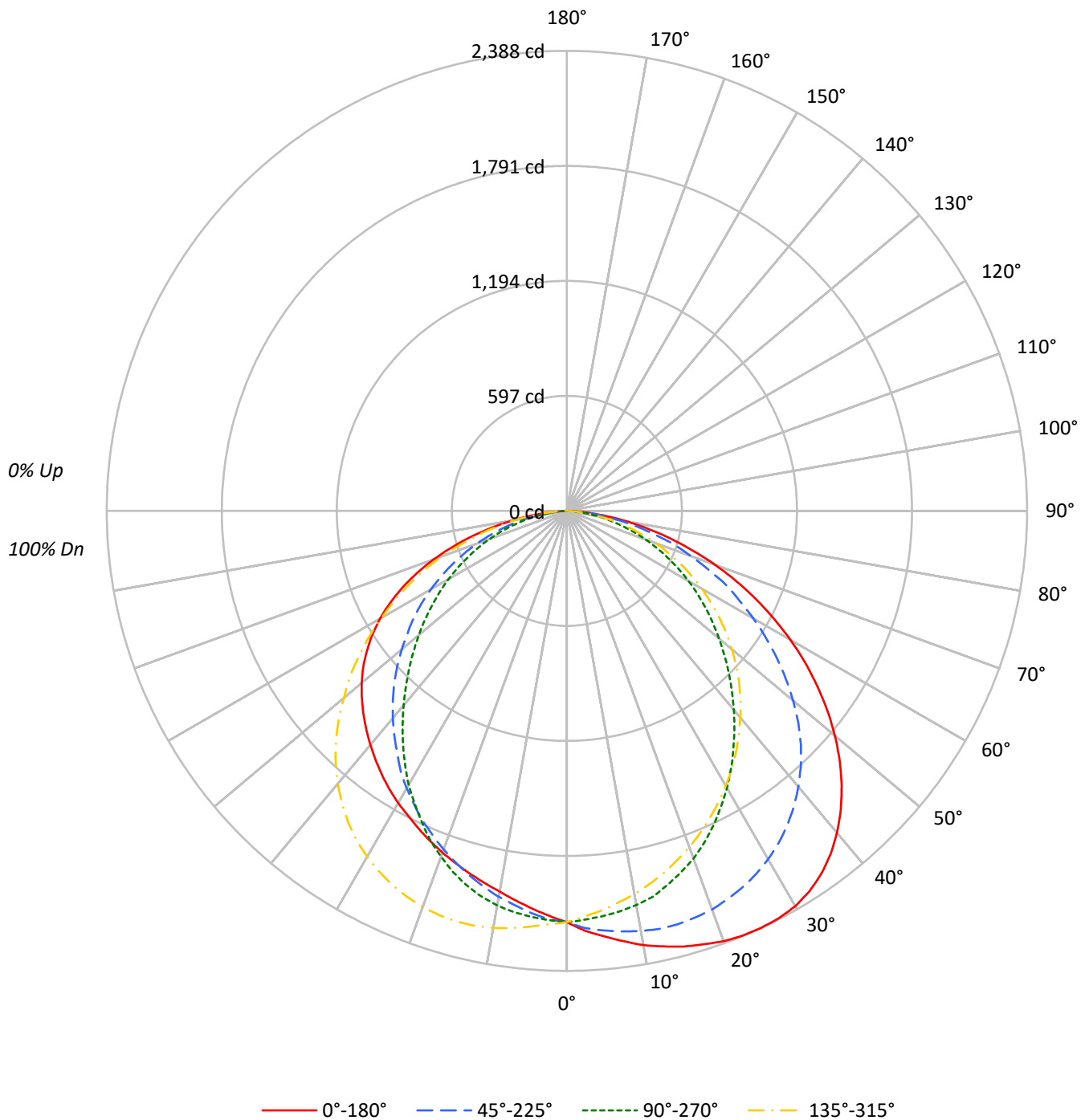
Lumens per Lamp: N/A
Luminaire Lumens: 6264.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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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°	5746	5746	5746	5746
5°	5988	5704	5596	5714
10°	6255	5675	5483	5683
15°	6523	5603	5429	5604
20°	6807	5501	5405	5470
25°	7089	5347	5405	5293
30°	7363	5161	5441	5104
35°	7559	4949	5496	4871
40°	7659	4736	5572	4629
45°	7674	4520	5680	4407
50°	7602	4314	5819	4199
55°	7444	4122	5949	4007
60°	7210	3921	6028	3820
65°	6888	3691	5997	3606
70°	6434	3421	5784	3358
75°	5789	3049	5308	3034
80°	4909	2555	4462	2593
85°	3415	1692	2828	1738

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	3.2
10°-20°	587.0	9.4
20°-30°	899.6	14.4
30°-40°	1093.9	17.5
40°-50°	1137.1	18.2
50°-60°	1027.2	16.4
60°-70°	780.9	12.5
70°-80°	435.4	7.0
80°-90°	100.2	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°	1689.3	27.0
0°-40°	2783.2	44.4
0°-60°	4947.5	79.0
0°-90°	6264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6264.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2135	2135	2135	2135	2135	
5°	2217	2112	2072	2115	2217	214
15°	2341	2011	1949	2012	2341	664
25°	2388	1801	1820	1782	2388	1103
35°	2301	1507	1673	1483	2301	1437
45°	2017	1188	1493	1158	2017	1553
55°	1587	878	1268	854	1587	1416
65°	1082	580	942	566	1082	1069
75°	557	293	510	292	557	591
85°	111	55	92	56	111	139
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°	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1
2.5°	2182.4	2150.5	2151.0	2178.9	2157.5	2168.0	2138.1	2149.5	2146.0	2148.5	2124.1
5°	2216.8	2182.4	2181.9	2205.8	2181.9	2186.4	2148.5	2156.0	2145.0	2138.1	2111.7
7.5°	2253.1	2218.8	2215.3	2236.2	2204.8	2201.3	2159.5	2159.5	2139.6	2122.1	2097.2
10°	2289.0	2253.6	2249.1	2265.1	2226.2	2214.8	2164.0	2156.0	2129.6	2103.7	2076.8
12.5°	2315.9	2280.0	2276.5	2286.5	2242.7	2221.7	2164.0	2148.5	2109.7	2073.3	2052.4
15°	2341.3	2304.4	2295.0	2299.9	2249.6	2221.7	2157.0	2133.1	2083.3	2035.5	2011.1
17.5°	2359.2	2323.8	2314.4	2313.9	2253.1	2213.3	2142.1	2109.2	2049.4	1991.7	1967.2
20°	2377.1	2341.8	2329.8	2320.9	2252.1	2201.8	2120.1	2075.8	2006.1	1941.3	1920.9
22.5°	2386.1	2349.7	2336.8	2323.3	2245.7	2180.9	2093.3	2037.0	1957.3	1880.1	1863.2
25°	2387.6	2350.2	2336.3	2316.9	2232.7	2156.0	2058.4	1990.2	1901.0	1815.3	1800.9
27.5°	2383.6	2342.8	2328.8	2305.4	2213.3	2125.6	2017.1	1936.9	1841.2	1746.6	1731.2
30°	2369.7	2328.3	2314.9	2284.5	2185.9	2088.3	1971.7	1877.6	1775.0	1674.4	1661.0
32.5°	2341.8	2301.4	2290.5	2260.1	2156.0	2044.9	1918.9	1813.9	1701.8	1605.7	1585.8
35°	2300.9	2260.6	2253.6	2221.7	2114.2	1993.1	1861.2	1744.1	1624.1	1526.0	1506.6
37.5°	2247.6	2213.8	2203.3	2171.9	2064.9	1934.4	1794.9	1668.4	1544.9	1439.3	1427.4
40°	2180.4	2148.5	2140.6	2112.7	2007.6	1869.1	1723.2	1590.2	1463.2	1365.1	1348.2
42.5°	2103.7	2073.8	2069.3	2040.5	1936.9	1796.9	1645.5	1509.1	1378.1	1283.4	1266.5
45°	2016.6	1987.7	1986.7	1959.3	1859.7	1716.7	1563.8	1426.9	1294.9	1196.8	1187.8
47.5°	1920.4	1894.5	1894.5	1869.1	1773.5	1628.6	1479.7	1341.2	1211.2	1124.6	1108.6
50°	1815.8	1791.4	1784.0	1771.5	1678.4	1532.5	1391.0	1257.5	1128.6	1045.9	1030.4
52.5°	1704.3	1683.4	1688.3	1665.4	1575.3	1432.4	1301.4	1163.4	1045.4	970.2	954.7
55°	1586.7	1556.9	1561.3	1552.9	1467.7	1329.3	1200.8	1085.7	963.7	893.0	878.5
57.5°	1464.7	1425.9	1441.8	1436.8	1353.2	1223.7	1108.6	997.6	882.5	817.3	803.3
60°	1339.7	1302.4	1318.8	1314.3	1235.6	1118.1	1013.5	910.4	801.8	742.6	728.6
62.5°	1211.2	1176.9	1191.8	1188.3	1116.1	1010.0	918.9	824.3	720.7	667.4	654.4
65°	1081.7	1048.9	1062.3	1059.8	993.1	912.4	821.8	735.1	639.0	592.7	579.7
67.5°	949.3	918.9	931.3	931.3	870.1	792.9	724.1	645.0	558.8	519.0	507.0
70°	817.8	789.4	800.3	799.3	747.6	684.8	625.5	554.8	477.6	444.7	434.8
72.5°	685.3	660.4	670.4	669.4	626.0	585.7	526.9	465.7	398.4	372.0	363.1
75°	556.8	533.4	542.9	541.9	506.5	468.7	429.3	378.5	320.7	302.3	293.3
77.5°	434.3	410.4	418.4	418.4	392.5	365.1	333.7	294.3	253.5	233.6	227.1
80°	316.8	305.3	301.3	301.8	284.4	266.4	250.5	212.7	182.8	169.3	164.9
82.5°	208.2	198.7	194.7	195.7	185.8	174.8	164.9	138.5	118.5	110.6	108.1
85°	110.6	103.6	100.1	102.6	100.6	94.6	89.6	71.7	59.3	56.3	54.8
87.5°	34.9	30.4	27.9	36.9	31.4	27.9	26.9	21.4	16.4	16.4	15.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1
2.5°	2132.1	2132.1	2112.7	2108.2	2106.2	2108.7	2089.3	2085.8	2113.7	2104.2	2082.8
5°	2115.2	2114.2	2086.8	2081.8	2081.8	2078.8	2056.9	2051.9	2079.8	2071.8	2048.4
7.5°	2094.2	2091.3	2058.9	2055.4	2050.4	2048.4	2024.0	2020.5	2044.4	2039.5	2017.5
10°	2068.8	2065.9	2027.5	2025.0	2019.5	2015.6	1992.6	1990.2	2014.6	2006.6	1989.2
12.5°	2035.5	2030.0	1990.7	1988.2	1983.7	1982.2	1959.8	1958.8	1985.7	1977.7	1959.3
15°	1991.7	1987.2	1943.3	1944.3	1944.8	1944.8	1926.9	1925.9	1952.3	1948.8	1928.9
17.5°	1943.3	1937.4	1895.5	1898.5	1902.0	1906.0	1892.0	1894.5	1922.4	1917.9	1900.0
20°	1888.6	1882.6	1841.7	1850.2	1857.7	1865.6	1856.7	1863.7	1889.6	1887.6	1874.1
22.5°	1827.3	1821.3	1783.5	1796.4	1808.9	1823.8	1819.8	1827.8	1855.2	1854.7	1842.7
25°	1752.6	1754.1	1720.7	1736.7	1757.6	1778.5	1780.0	1792.9	1823.3	1820.3	1809.4
27.5°	1682.9	1684.9	1649.5	1676.4	1704.3	1731.2	1737.7	1755.6	1786.5	1784.0	1774.5
30°	1609.7	1612.1	1577.8	1614.6	1648.5	1681.4	1695.3	1719.7	1751.1	1751.1	1741.1
32.5°	1533.5	1537.9	1502.1	1551.4	1590.7	1629.1	1653.5	1678.9	1714.7	1713.7	1705.3
35°	1455.3	1460.2	1427.4	1490.1	1529.5	1576.3	1606.7	1640.5	1672.4	1672.9	1666.4
37.5°	1375.6	1381.6	1351.7	1420.4	1465.2	1520.5	1559.4	1593.2	1628.6	1630.6	1624.6
40°	1296.4	1302.9	1277.0	1343.2	1400.0	1461.7	1506.6	1546.4	1585.3	1586.2	1582.3
42.5°	1217.2	1224.2	1204.8	1269.5	1333.7	1400.0	1452.8	1498.1	1537.9	1540.4	1535.9
45°	1140.0	1146.0	1132.0	1202.8	1264.5	1336.7	1397.5	1448.8	1489.1	1492.6	1491.1
47.5°	1063.3	1068.8	1056.3	1121.1	1192.3	1269.0	1339.2	1396.0	1438.8	1442.8	1441.8
50°	988.1	992.6	979.1	1046.9	1117.6	1199.3	1272.5	1338.2	1386.0	1390.0	1389.5
52.5°	913.4	917.9	906.4	977.6	1041.9	1128.1	1207.7	1279.0	1326.3	1332.2	1333.2
55°	841.2	843.2	834.2	902.4	964.7	1054.8	1146.5	1215.7	1263.0	1268.0	1271.0
57.5°	769.0	769.5	762.0	827.2	887.0	979.1	1075.3	1148.0	1192.8	1197.8	1202.3
60°	697.3	696.8	688.3	751.5	808.8	900.0	1000.1	1072.3	1115.6	1120.1	1126.1
62.5°	626.0	624.5	617.1	675.3	729.1	819.3	919.9	989.6	1030.9	1033.9	1041.9
65°	555.3	553.8	546.8	600.6	649.4	735.6	834.2	900.5	937.8	941.8	940.3
67.5°	485.6	482.6	477.1	525.4	569.8	649.4	744.1	807.3	838.2	841.7	851.1
70°	415.9	412.4	399.9	451.2	490.1	561.3	649.4	705.7	731.6	735.1	733.6
72.5°	347.1	343.6	330.2	377.5	410.4	472.6	551.3	598.1	620.6	623.5	623.5
75°	280.4	278.4	269.9	305.8	333.2	384.0	450.7	489.6	507.0	510.5	509.5
77.5°	216.1	214.7	206.2	237.1	258.5	296.3	350.1	380.5	393.4	397.4	405.9
80°	154.9	154.4	140.9	171.3	180.8	212.7	252.0	275.4	282.4	287.9	293.8
82.5°	99.1	99.6	86.2	112.1	116.0	136.5	160.9	175.3	180.3	184.8	189.3
85°	48.3	50.3	42.8	59.3	59.8	70.2	80.7	86.2	88.2	91.6	95.6
87.5°	12.5	14.4	8.0	16.9	14.9	19.4	22.4	23.9	23.4	25.9	27.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1
2.5°	2089.8	2105.7	2097.7	2123.6	2133.6	2117.7	2145.5	2146.0	2126.1	2149.5	2162.5
5°	2057.4	2073.8	2068.8	2095.7	2108.2	2094.2	2128.1	2134.6	2115.2	2141.6	2162.5
7.5°	2024.5	2043.9	2037.5	2064.9	2079.8	2068.8	2105.2	2115.7	2100.7	2129.6	2157.5
10°	1996.1	2012.6	2005.6	2034.5	2047.4	2038.5	2074.3	2093.7	2079.8	2115.2	2148.5
12.5°	1968.2	1981.7	1973.7	1997.6	2010.1	1998.6	2042.5	2060.4	2050.4	2087.3	2130.1
15°	1932.4	1947.3	1936.4	1957.8	1967.2	1957.3	1993.1	2024.0	2011.6	2051.9	2099.2
17.5°	1905.0	1913.5	1898.5	1915.5	1920.9	1907.5	1943.8	1974.2	1965.3	2009.1	2063.9
20°	1874.6	1881.6	1860.7	1870.1	1869.6	1852.7	1886.1	1915.9	1910.0	1958.3	2020.5
22.5°	1840.7	1844.2	1819.8	1821.8	1820.8	1792.9	1822.8	1853.2	1850.7	1899.5	1969.2
25°	1804.9	1805.4	1774.0	1773.0	1762.1	1729.2	1755.6	1789.9	1782.5	1835.3	1908.5
27.5°	1769.5	1764.5	1726.7	1717.7	1700.3	1661.0	1684.4	1715.2	1710.8	1762.6	1843.7
30°	1731.7	1725.2	1678.9	1662.4	1637.0	1591.7	1611.2	1640.0	1642.5	1687.8	1773.0
32.5°	1695.8	1679.4	1628.1	1604.2	1572.3	1519.5	1530.0	1559.4	1563.3	1609.2	1696.8
35°	1649.5	1638.5	1575.3	1534.5	1503.1	1445.3	1456.3	1476.7	1482.7	1527.5	1616.6
37.5°	1605.7	1588.2	1521.0	1471.2	1430.9	1370.1	1373.1	1394.0	1400.0	1445.3	1533.5
40°	1560.4	1535.4	1463.2	1405.0	1358.6	1294.9	1291.4	1313.3	1317.8	1362.1	1441.8
42.5°	1512.0	1482.2	1401.0	1337.2	1283.9	1219.2	1212.2	1231.1	1236.1	1279.5	1357.6
45°	1463.2	1427.4	1337.2	1267.5	1209.2	1143.0	1136.0	1150.5	1157.9	1198.8	1274.0
47.5°	1411.4	1369.6	1271.5	1193.8	1133.5	1067.3	1058.8	1073.3	1079.2	1119.6	1190.8
50°	1357.2	1306.4	1203.8	1118.1	1058.3	993.1	980.6	997.6	1003.0	1040.9	1110.6
52.5°	1297.4	1241.1	1131.5	1041.9	982.1	919.9	904.9	921.4	927.8	964.7	1028.9
55°	1234.1	1173.4	1058.8	971.7	906.9	846.2	833.7	840.2	854.1	889.0	948.8
57.5°	1162.9	1102.7	982.1	893.5	831.2	773.0	762.5	768.5	781.4	815.3	869.1
60°	1087.2	1023.5	903.9	815.3	755.0	699.7	690.3	695.8	709.7	740.6	790.4
62.5°	1012.5	940.8	823.3	735.1	680.3	629.0	626.5	624.5	637.5	667.4	711.2
65°	921.9	853.1	739.1	655.4	605.6	559.3	549.3	553.8	566.3	593.7	639.5
67.5°	824.7	762.5	652.9	575.7	531.4	490.1	481.6	483.6	496.5	520.4	560.3
70°	721.7	666.9	564.8	495.5	458.2	419.3	413.9	414.4	426.8	447.7	482.6
72.5°	613.6	564.3	475.6	416.4	385.5	357.6	352.6	346.6	358.1	376.0	405.9
75°	503.5	460.2	387.0	338.7	314.3	290.9	286.4	280.4	291.8	307.3	330.7
77.5°	392.5	357.6	300.8	263.5	244.5	227.1	223.1	216.6	228.1	239.6	258.0
80°	283.9	258.5	224.6	185.3	178.8	167.3	163.4	156.4	167.3	174.8	188.8
82.5°	183.3	166.3	146.9	119.5	118.5	110.1	108.1	100.1	110.1	114.5	125.0
85°	92.6	84.7	79.7	60.8	62.8	57.3	56.8	48.3	56.3	58.3	64.2
87.5°	26.4	27.9	24.9	14.9	18.9	17.9	17.9	12.9	17.9	17.9	20.4
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: P837998

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1	2135.1
2.5°	2137.1	2145.5	2147.5	2147.0	2152.5	2182.4	2172.4	2182.4
5°	2142.1	2161.0	2166.0	2172.9	2181.9	2215.8	2204.8	2216.8
7.5°	2145.0	2173.4	2184.4	2197.8	2212.3	2250.1	2241.2	2253.1
10°	2145.0	2181.9	2197.8	2220.3	2239.7	2283.5	2275.0	2289.0
12.5°	2136.1	2183.4	2205.8	2237.2	2262.1	2309.4	2305.9	2315.9
15°	2117.7	2175.9	2206.8	2247.1	2278.0	2330.8	2329.3	2341.3
17.5°	2092.8	2163.0	2200.3	2251.1	2290.0	2349.2	2352.7	2359.2
20°	2061.4	2138.6	2187.4	2249.6	2298.4	2363.7	2368.2	2377.1
22.5°	2020.0	2109.2	2168.0	2243.2	2299.4	2369.7	2377.6	2386.1
25°	1971.2	2073.8	2142.6	2230.7	2294.5	2369.2	2380.1	2387.6
27.5°	1915.5	2028.0	2110.2	2210.8	2280.5	2361.2	2374.6	2383.6
30°	1850.7	1979.2	2073.3	2184.9	2261.6	2346.3	2360.7	2369.7
32.5°	1784.0	1925.4	2029.5	2151.5	2234.2	2322.3	2334.8	2341.8
35°	1711.3	1860.2	1976.7	2108.7	2198.8	2284.0	2293.5	2300.9
37.5°	1632.1	1789.4	1916.4	2060.4	2149.0	2230.7	2239.2	2247.6
40°	1550.4	1715.2	1848.7	2001.1	2089.8	2165.5	2174.4	2180.4
42.5°	1468.2	1633.1	1776.5	1931.4	2019.5	2092.3	2097.7	2103.7
45°	1385.0	1547.9	1695.3	1854.2	1941.3	2009.6	2011.6	2016.6
47.5°	1300.4	1459.7	1606.2	1766.0	1852.2	1914.5	1916.4	1920.4
50°	1215.2	1371.6	1511.0	1670.9	1755.1	1820.8	1811.9	1815.8
52.5°	1131.5	1279.0	1421.4	1568.3	1651.5	1709.8	1712.3	1704.3
55°	1049.4	1188.3	1319.3	1460.7	1539.9	1585.3	1583.8	1586.7
57.5°	966.2	1096.7	1216.7	1346.2	1423.4	1466.2	1475.2	1464.7
60°	881.5	1004.0	1111.6	1228.7	1303.4	1339.2	1349.7	1339.7
62.5°	797.4	909.9	1007.5	1109.6	1178.9	1223.2	1222.2	1211.2
65°	713.2	815.3	902.4	989.1	1049.4	1093.7	1091.7	1081.7
67.5°	635.5	719.7	797.9	868.1	920.4	950.8	961.2	949.3
70°	549.8	622.5	691.3	747.6	790.9	818.3	828.2	817.8
72.5°	464.2	525.9	574.2	628.5	661.9	684.8	695.3	685.3
75°	379.5	430.3	469.6	512.0	535.4	554.8	566.8	556.8
77.5°	297.3	336.7	368.0	398.9	425.8	430.3	440.8	434.3
80°	219.1	247.5	270.4	290.9	310.3	312.3	320.7	316.8
82.5°	145.9	164.9	170.8	192.2	204.7	202.7	211.2	208.2
85°	77.2	88.7	99.1	105.6	112.6	106.1	113.6	110.6
87.5°	25.9	27.4	23.9	33.9	37.4	31.9	36.4	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)