

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: P837945

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6STD-20-120-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: P837945
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-LD4-6STD-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

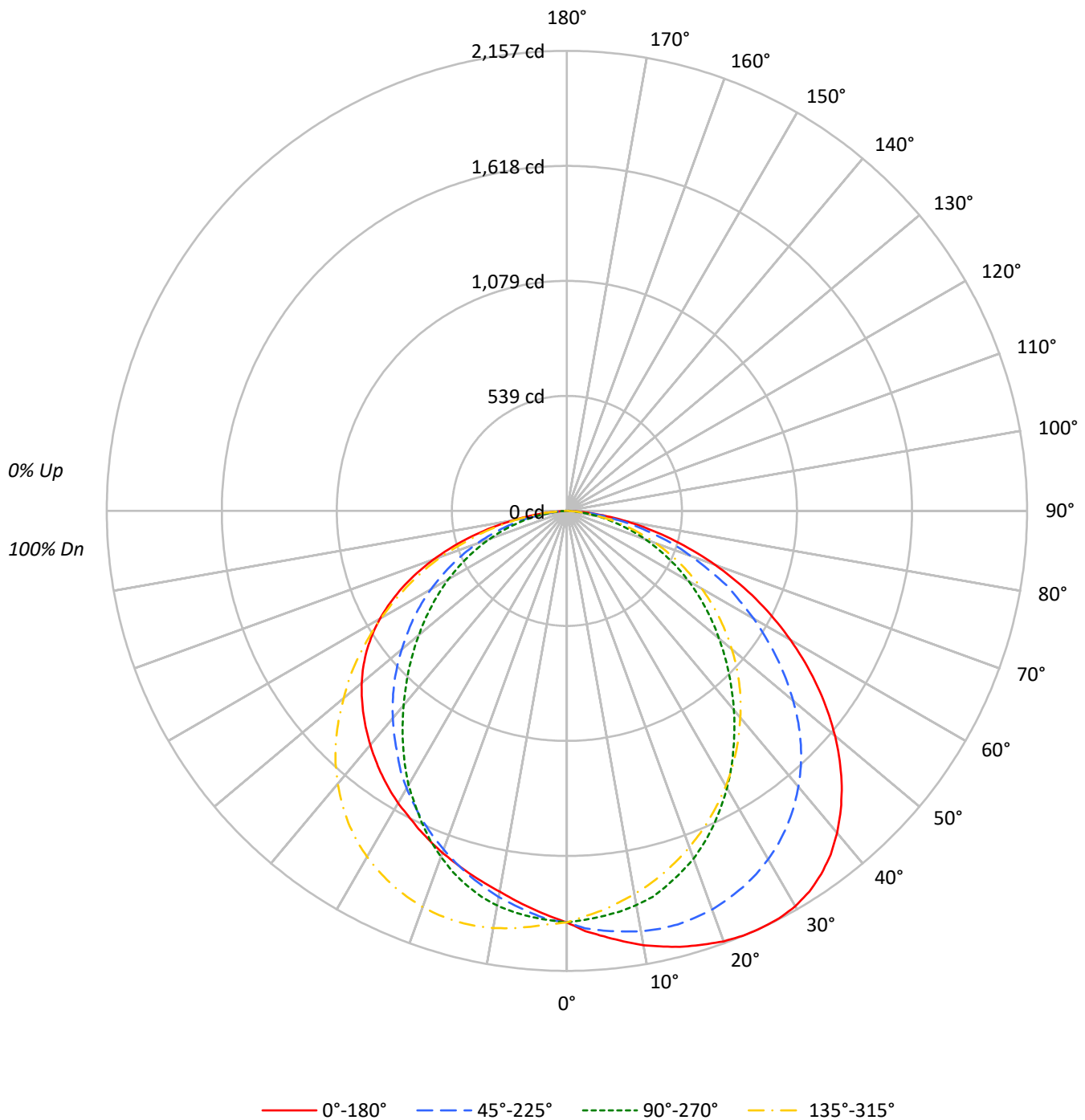
Lumens per Lamp: N/A
Luminaire Lumens: 5659.7 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	5191	5191	5191	5191
5°	5410	5154	5057	5162
10°	5651	5128	4954	5135
15°	5893	5062	4905	5063
20°	6151	4970	4884	4942
25°	6405	4831	4883	4782
30°	6653	4663	4916	4612
35°	6830	4472	4965	4401
40°	6921	4279	5035	4183
45°	6934	4084	5132	3981
50°	6869	3898	5258	3794
55°	6726	3724	5375	3620
60°	6515	3543	5447	3451
65°	6223	3335	5418	3258
70°	5814	3091	5226	3034
75°	5231	2755	4795	2742
80°	4435	2307	4031	2343
85°	3084	1528	2556	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.2
10°-20°	530.4	9.4
20°-30°	812.8	14.4
30°-40°	988.3	17.5
40°-50°	1027.4	18.2
50°-60°	928.1	16.4
60°-70°	705.6	12.5
70°-80°	393.3	6.9
80°-90°	90.5	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°	1526.4	27.0
0°-40°	2514.7	44.4
0°-60°	4470.2	79.0
0°-90°	5659.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5659.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1929	1929	1929	1929	1929	
5°	2003	1908	1872	1911	2003	193
15°	2115	1817	1761	1818	2115	600
25°	2157	1627	1645	1610	2157	996
35°	2079	1361	1512	1340	2079	1298
45°	1822	1073	1349	1046	1822	1403
55°	1434	794	1146	772	1434	1280
65°	977	524	851	512	977	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°	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1
2.5°	1971.9	1943.1	1943.5	1968.7	1949.4	1958.8	1931.8	1942.2	1939.0	1941.3	1919.2
5°	2002.9	1971.9	1971.4	1993.0	1971.4	1975.5	1941.3	1948.0	1938.1	1931.8	1908.0
7.5°	2035.8	2004.7	2001.6	2020.5	1992.1	1989.0	1951.2	1951.2	1933.2	1917.4	1894.9
10°	2068.2	2036.2	2032.2	2046.6	2011.5	2001.1	1955.2	1948.0	1924.2	1900.8	1876.5
12.5°	2092.5	2060.1	2056.9	2065.9	2026.3	2007.4	1955.2	1941.3	1906.2	1873.3	1854.4
15°	2115.4	2082.1	2073.6	2078.1	2032.6	2007.4	1948.9	1927.3	1882.3	1839.1	1817.1
17.5°	2131.6	2099.7	2091.1	2090.7	2035.8	1999.8	1935.4	1905.7	1851.7	1799.5	1777.5
20°	2147.8	2115.9	2105.1	2097.0	2034.9	1989.4	1915.6	1875.6	1812.6	1754.1	1735.6
22.5°	2155.9	2123.1	2111.4	2099.2	2029.0	1970.5	1891.3	1840.5	1768.5	1698.7	1683.4
25°	2157.3	2123.5	2110.9	2093.4	2017.3	1948.0	1859.8	1798.2	1717.6	1640.2	1627.2
27.5°	2153.7	2116.8	2104.2	2083.0	1999.8	1920.6	1822.5	1750.0	1663.6	1578.1	1564.2
30°	2141.1	2103.7	2091.6	2064.1	1975.0	1886.8	1781.5	1696.5	1603.8	1512.9	1500.7
32.5°	2115.9	2079.4	2069.5	2042.1	1948.0	1847.7	1733.8	1638.9	1537.6	1450.8	1432.8
35°	2079.0	2042.5	2036.2	2007.4	1910.2	1800.9	1681.6	1575.9	1467.4	1378.8	1361.2
37.5°	2030.8	2000.2	1990.8	1962.4	1865.7	1747.8	1621.8	1507.5	1395.9	1300.5	1289.7
40°	1970.1	1941.3	1934.1	1908.9	1813.9	1688.8	1557.0	1436.8	1322.1	1233.4	1218.1
42.5°	1900.8	1873.8	1869.7	1843.6	1750.0	1623.6	1486.8	1363.5	1245.1	1159.6	1144.3
45°	1822.0	1795.9	1795.0	1770.3	1680.3	1551.1	1413.0	1289.2	1170.0	1081.3	1073.2
47.5°	1735.2	1711.8	1711.8	1688.8	1602.4	1471.5	1336.9	1211.8	1094.4	1016.1	1001.7
50°	1640.7	1618.6	1611.9	1600.6	1516.5	1384.6	1256.8	1136.2	1019.7	945.0	931.0
52.5°	1539.9	1521.0	1525.5	1504.8	1423.3	1294.2	1175.8	1051.2	944.5	876.6	862.6
55°	1433.7	1406.7	1410.7	1403.1	1326.1	1201.0	1084.9	981.0	870.7	806.8	793.8
57.5°	1323.4	1288.3	1302.7	1298.2	1222.6	1105.6	1001.7	901.3	797.4	738.4	725.8
60°	1210.5	1176.7	1191.6	1187.5	1116.4	1010.2	915.7	822.6	724.5	670.9	658.3
62.5°	1094.4	1063.3	1076.8	1073.7	1008.4	912.6	830.2	744.7	651.1	603.0	591.3
65°	977.4	947.7	959.8	957.6	897.3	824.4	742.5	664.2	577.3	535.5	523.8
67.5°	857.7	830.2	841.5	841.5	786.1	716.4	654.3	582.7	504.9	468.9	458.1
70°	738.9	713.2	723.1	722.2	675.4	618.7	565.2	501.3	431.5	401.8	392.8
72.5°	619.2	596.7	605.7	604.8	565.6	529.2	476.1	420.7	360.0	336.1	328.0
75°	503.1	481.9	490.5	489.6	457.6	423.4	387.9	342.0	289.8	273.1	265.0
77.5°	392.4	370.8	378.0	378.0	354.6	329.8	301.5	265.9	229.0	211.0	205.2
80°	286.2	275.8	272.2	272.7	256.9	240.7	226.3	192.1	165.1	153.0	148.9
82.5°	188.1	179.5	175.9	176.8	167.8	157.9	148.9	125.1	107.1	99.9	97.6
85°	99.9	93.6	90.4	92.7	90.9	85.5	81.0	64.8	53.5	50.8	49.5
87.5°	31.5	27.4	25.2	33.3	28.3	25.2	24.3	19.3	14.8	14.8	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°	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1
2.5°	1926.4	1926.4	1908.9	1904.8	1903.0	1905.3	1887.7	1884.6	1909.8	1901.2	1881.9
5°	1911.1	1910.2	1885.5	1881.0	1881.0	1878.3	1858.5	1854.0	1879.2	1872.0	1850.8
7.5°	1892.2	1889.5	1860.3	1857.1	1852.6	1850.8	1828.8	1825.6	1847.2	1842.7	1822.9
10°	1869.3	1866.6	1831.9	1829.7	1824.7	1821.1	1800.4	1798.2	1820.2	1813.0	1797.3
12.5°	1839.1	1834.2	1798.6	1796.4	1792.3	1791.0	1770.7	1769.8	1794.1	1786.9	1770.3
15°	1799.5	1795.5	1755.9	1756.8	1757.2	1757.2	1741.0	1740.1	1764.0	1760.8	1742.8
17.5°	1755.9	1750.5	1712.7	1715.4	1718.5	1722.1	1709.5	1711.8	1737.0	1732.9	1716.7
20°	1706.4	1701.0	1664.1	1671.7	1678.5	1685.7	1677.6	1683.9	1707.3	1705.5	1693.3
22.5°	1651.0	1645.6	1611.4	1623.1	1634.4	1647.9	1644.3	1651.5	1676.2	1675.8	1665.0
25°	1583.5	1584.9	1554.7	1569.1	1588.0	1606.9	1608.3	1620.0	1647.4	1644.7	1634.8
27.5°	1520.5	1522.3	1490.4	1514.7	1539.9	1564.2	1570.0	1586.2	1614.1	1611.9	1603.3
30°	1454.4	1456.6	1425.6	1458.9	1489.5	1519.2	1531.8	1553.8	1582.2	1582.2	1573.2
32.5°	1385.5	1389.6	1357.2	1401.7	1437.3	1471.9	1494.0	1516.9	1549.3	1548.4	1540.8
35°	1314.9	1319.4	1289.7	1346.4	1381.9	1424.2	1451.7	1482.3	1511.1	1511.5	1505.7
37.5°	1242.9	1248.3	1221.3	1283.4	1323.9	1373.8	1408.9	1439.5	1471.5	1473.3	1467.9
40°	1171.3	1177.2	1153.8	1213.6	1264.9	1320.7	1361.2	1397.2	1432.3	1433.2	1429.6
42.5°	1099.8	1106.1	1088.5	1147.0	1205.1	1264.9	1312.6	1353.6	1389.6	1391.8	1387.8
45°	1030.0	1035.4	1022.8	1086.7	1142.5	1207.8	1262.7	1309.0	1345.5	1348.6	1347.3
47.5°	960.7	965.7	954.4	1012.9	1077.3	1146.6	1210.0	1261.3	1300.0	1303.6	1302.7
50°	892.8	896.8	884.7	945.9	1009.8	1083.6	1149.7	1209.1	1252.3	1255.9	1255.5
52.5°	825.3	829.3	819.0	883.3	941.4	1019.2	1091.2	1155.6	1198.3	1203.7	1204.6
55°	760.0	761.8	753.7	815.4	871.6	953.1	1035.9	1098.4	1141.2	1145.7	1148.4
57.5°	694.8	695.2	688.5	747.4	801.4	884.7	971.5	1037.2	1077.7	1082.2	1086.3
60°	630.0	629.5	621.9	679.0	730.8	813.1	903.6	968.8	1008.0	1012.0	1017.4
62.5°	565.6	564.3	557.5	610.2	658.8	740.2	831.1	894.1	931.5	934.2	941.4
65°	501.7	500.4	494.1	542.7	586.8	664.6	753.7	813.6	847.3	850.9	849.6
67.5°	438.7	436.0	431.1	474.7	514.8	586.8	672.3	729.4	757.3	760.5	769.0
70°	375.7	372.6	361.3	407.7	442.8	507.1	586.8	637.6	661.0	664.2	662.8
72.5°	313.6	310.5	298.3	341.1	370.8	427.0	498.1	540.4	560.7	563.4	563.4
75°	253.3	251.5	243.9	276.3	301.0	346.9	407.2	442.3	458.1	461.2	460.3
77.5°	195.3	193.9	186.3	214.2	233.5	267.7	316.3	343.8	355.5	359.1	366.7
80°	139.9	139.5	127.3	154.8	163.3	192.1	227.7	248.8	255.1	260.1	265.5
82.5°	89.5	90.0	77.8	101.2	104.8	123.3	145.3	158.4	162.9	166.9	171.0
85°	43.6	45.4	38.7	53.5	54.0	63.4	72.9	77.8	79.6	82.8	86.4
87.5°	11.2	13.0	7.2	15.3	13.5	17.5	20.2	21.6	21.1	23.4	24.7
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°	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1
2.5°	1888.2	1902.6	1895.4	1918.8	1927.8	1913.4	1938.6	1939.0	1921.0	1942.2	1953.9
5°	1858.9	1873.8	1869.3	1893.6	1904.8	1892.2	1922.8	1928.7	1911.1	1935.0	1953.9
7.5°	1829.2	1846.8	1840.9	1865.7	1879.2	1869.3	1902.1	1911.6	1898.1	1924.2	1949.4
10°	1803.6	1818.4	1812.1	1838.2	1849.9	1841.8	1874.2	1891.8	1879.2	1911.1	1941.3
12.5°	1778.4	1790.5	1783.3	1804.9	1816.2	1805.8	1845.4	1861.6	1852.6	1885.9	1924.6
15°	1746.0	1759.5	1749.6	1768.9	1777.5	1768.5	1800.9	1828.8	1817.5	1854.0	1896.7
17.5°	1721.2	1728.9	1715.4	1730.7	1735.6	1723.5	1756.3	1783.8	1775.7	1815.3	1864.8
20°	1693.8	1700.1	1681.2	1689.7	1689.3	1674.0	1704.1	1731.1	1725.7	1769.4	1825.6
22.5°	1663.2	1666.3	1644.3	1646.1	1645.2	1620.0	1647.0	1674.4	1672.2	1716.3	1779.3
25°	1630.8	1631.2	1602.9	1602.0	1592.1	1562.4	1586.2	1617.3	1610.5	1658.2	1724.4
27.5°	1598.8	1594.3	1560.1	1552.0	1536.3	1500.7	1521.9	1549.8	1545.7	1592.5	1665.9
30°	1564.6	1558.8	1516.9	1502.1	1479.1	1438.2	1455.7	1481.8	1484.1	1525.0	1602.0
32.5°	1532.2	1517.4	1471.0	1449.4	1420.6	1372.9	1382.4	1408.9	1412.5	1453.9	1533.1
35°	1490.4	1480.5	1423.3	1386.4	1358.1	1305.9	1315.8	1334.2	1339.6	1380.1	1460.7
37.5°	1450.8	1435.0	1374.3	1329.3	1292.8	1237.9	1240.6	1259.5	1264.9	1305.9	1385.5
40°	1409.8	1387.3	1322.1	1269.4	1227.6	1170.0	1166.8	1186.6	1190.7	1230.7	1302.7
42.5°	1366.2	1339.2	1265.8	1208.2	1160.1	1101.6	1095.3	1112.4	1116.9	1156.0	1226.7
45°	1322.1	1289.7	1208.2	1145.2	1092.6	1032.7	1026.4	1039.5	1046.2	1083.1	1151.1
47.5°	1275.3	1237.5	1148.8	1078.6	1024.2	964.3	956.7	969.7	975.1	1011.6	1075.9
50°	1226.2	1180.3	1087.6	1010.2	956.2	897.3	886.0	901.3	906.3	940.5	1003.5
52.5°	1172.2	1121.4	1022.4	941.4	887.4	831.1	817.6	832.5	838.3	871.6	929.7
55°	1115.1	1060.2	956.7	877.9	819.4	764.5	753.3	759.1	771.7	803.2	857.2
57.5°	1050.7	996.3	887.4	807.3	751.0	698.4	688.9	694.3	706.0	736.6	785.2
60°	982.3	924.7	816.7	736.6	682.2	632.2	623.7	628.6	641.2	669.1	714.1
62.5°	914.8	850.0	743.8	664.2	614.7	568.3	566.1	564.3	576.0	603.0	642.6
65°	832.9	770.8	667.8	592.2	547.2	505.3	496.3	500.4	511.6	536.4	577.8
67.5°	745.2	688.9	589.9	520.2	480.1	442.8	435.1	436.9	448.6	470.2	506.2
70°	652.0	602.5	510.3	447.7	414.0	378.9	373.9	374.4	385.6	404.5	436.0
72.5°	554.4	509.8	429.7	376.2	348.3	323.1	318.6	313.2	323.5	339.7	366.7
75°	454.9	415.8	349.6	306.0	283.9	262.8	258.7	253.3	263.7	277.6	298.8
77.5°	354.6	323.1	271.8	238.0	220.9	205.2	201.6	195.7	206.1	216.4	233.1
80°	256.5	233.5	202.9	167.4	161.5	151.2	147.6	141.3	151.2	157.9	170.5
82.5°	165.6	150.3	132.7	108.0	107.1	99.4	97.6	90.4	99.4	103.5	112.9
85°	83.7	76.5	72.0	54.9	56.7	51.7	51.3	43.6	50.8	52.6	58.0
87.5°	23.8	25.2	22.5	13.5	17.1	16.2	16.2	11.7	16.2	16.2	18.4
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: P837945

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1	1929.1
2.5°	1930.9	1938.6	1940.4	1939.9	1944.9	1971.9	1962.9	1971.9
5°	1935.4	1952.5	1957.0	1963.3	1971.4	2002.0	1992.1	2002.9
7.5°	1938.1	1963.8	1973.7	1985.8	1998.9	2033.1	2025.0	2035.8
10°	1938.1	1971.4	1985.8	2006.1	2023.6	2063.2	2055.6	2068.2
12.5°	1930.0	1972.8	1993.0	2021.4	2043.9	2086.6	2083.5	2092.5
15°	1913.4	1966.0	1993.9	2030.4	2058.3	2106.0	2104.6	2115.4
17.5°	1890.9	1954.3	1988.1	2034.0	2069.1	2122.6	2125.8	2131.6
20°	1862.5	1932.3	1976.4	2032.6	2076.7	2135.7	2139.7	2147.8
22.5°	1825.2	1905.7	1958.8	2026.8	2077.6	2141.1	2148.3	2155.9
25°	1781.1	1873.8	1935.9	2015.5	2073.1	2140.6	2150.5	2157.3
27.5°	1730.7	1832.4	1906.6	1997.5	2060.5	2133.4	2145.6	2153.7
30°	1672.2	1788.3	1873.3	1974.1	2043.4	2119.9	2133.0	2141.1
32.5°	1611.9	1739.7	1833.7	1944.0	2018.7	2098.3	2109.6	2115.9
35°	1546.2	1680.7	1786.0	1905.3	1986.7	2063.7	2072.2	2079.0
37.5°	1474.6	1616.8	1731.6	1861.6	1941.7	2015.5	2023.2	2030.8
40°	1400.8	1549.8	1670.4	1808.1	1888.2	1956.6	1964.7	1970.1
42.5°	1326.6	1475.5	1605.1	1745.1	1824.7	1890.4	1895.4	1900.8
45°	1251.4	1398.6	1531.8	1675.3	1754.1	1815.7	1817.5	1822.0
47.5°	1174.9	1318.9	1451.2	1595.7	1673.5	1729.8	1731.6	1735.2
50°	1098.0	1239.3	1365.3	1509.7	1585.8	1645.2	1637.1	1640.7
52.5°	1022.4	1155.6	1284.3	1417.0	1492.2	1544.8	1547.1	1539.9
55°	948.1	1073.7	1192.0	1319.8	1391.4	1432.3	1431.0	1433.7
57.5°	873.0	990.9	1099.3	1216.3	1286.1	1324.8	1332.9	1323.4
60°	796.5	907.2	1004.4	1110.1	1177.6	1210.0	1219.5	1210.5
62.5°	720.4	822.1	910.3	1002.6	1065.1	1105.2	1104.3	1094.4
65°	644.4	736.6	815.4	893.7	948.1	988.2	986.4	977.4
67.5°	574.2	650.2	720.9	784.3	831.6	859.0	868.5	857.7
70°	496.8	562.5	624.6	675.4	714.6	739.3	748.3	738.9
72.5°	419.4	475.2	518.8	567.9	598.0	618.7	628.2	619.2
75°	342.9	388.8	424.3	462.6	483.7	501.3	512.1	503.1
77.5°	268.6	304.2	332.5	360.4	384.7	388.8	398.2	392.4
80°	198.0	223.6	244.3	262.8	280.3	282.1	289.8	286.2
82.5°	131.8	148.9	154.3	173.7	184.9	183.1	190.8	188.1
85°	69.7	80.1	89.5	95.4	101.7	95.8	102.6	99.9
87.5°	23.4	24.7	21.6	30.6	33.7	28.8	32.8	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)