

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: PORTFOLIO

Report Number: P245908

Luminaire Tested: **LD8B40D010 ER8B40840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

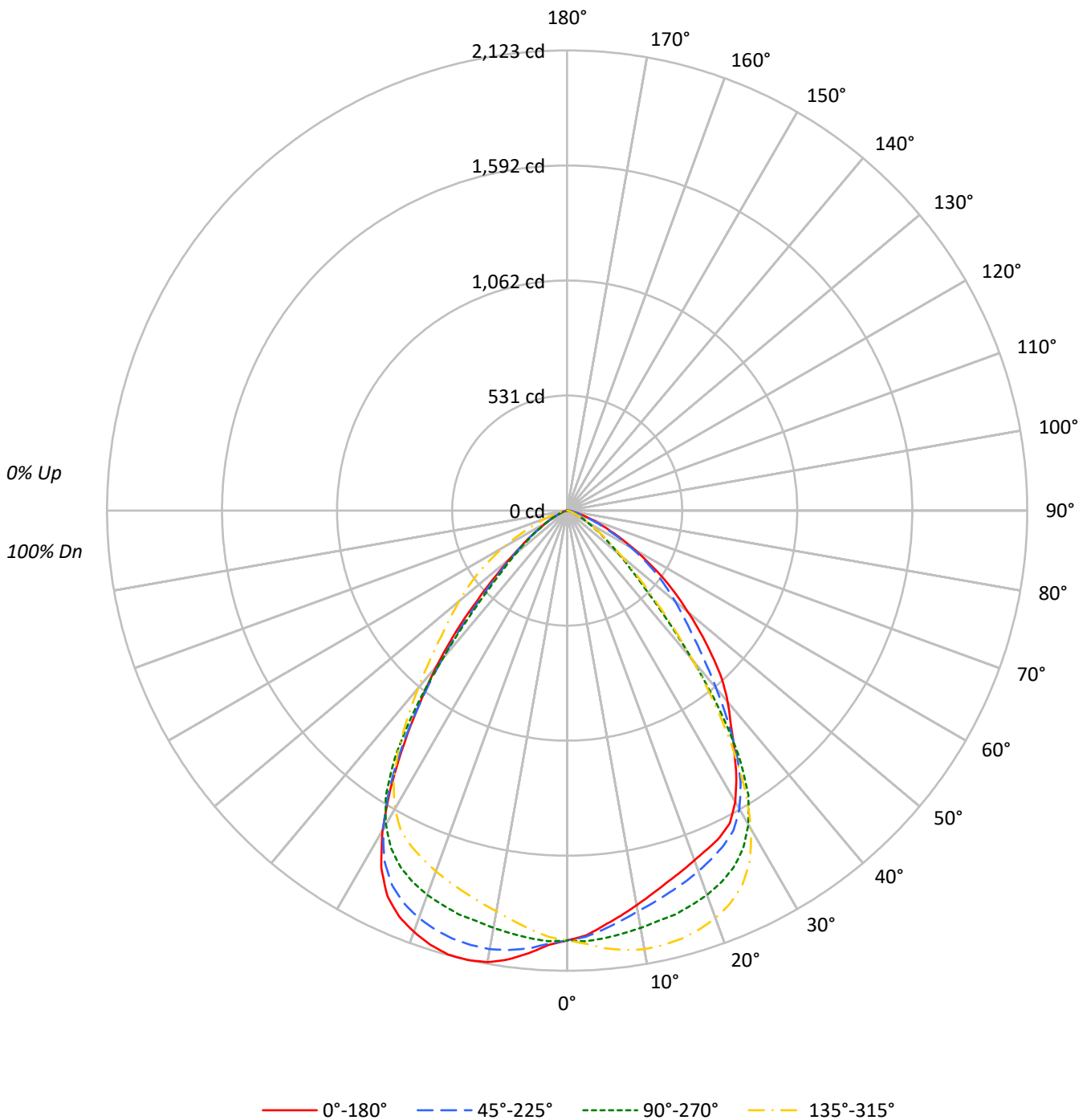
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	61145	61145	61145	61145
5°	59519	61286	63474	61286
10°	57874	61209	66241	61209
15°	56716	61572	67689	61572
20°	56331	61923	67865	61923
25°	56626	61798	66772	61798
30°	55226	59538	60606	59538
35°	50515	51938	49276	51938
40°	46377	36128	37726	36128
45°	41211	22040	25503	22040
50°	34881	14723	16349	14723
55°	28891	10048	10618	10048
60°	22036	6685	6747	6685
65°	15614	4166	3816	4166
70°	11261	2795	2533	2795
75°	7149	1382	1156	1382
80°	4990	1030	852	1030
85°	4458	0	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	5.7
10°-20°	546.5	16.4
20°-30°	827.6	24.8
30°-40°	829.4	24.8
40°-50°	520.8	15.6
50°-60°	277.5	8.3
60°-70°	114.1	3.4
70°-80°	30.2	0.9
80°-90°	5.1	0.2
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°	1562.8	46.8
0°-40°	2392.2	71.6
0°-60°	3190.6	95.5
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1983	1983	1983	1983	1983	
5°	1923	1980	2051	1980	1923	181
15°	1777	1929	2120	1929	1777	502
25°	1664	1816	1962	1816	1664	763
35°	1342	1380	1309	1380	1342	841
45°	945	505	585	505	945	727
55°	537	187	198	187	537	479
65°	214	57	52	57	214	222
75°	60	12	10	12	60	68
85°	13	0	1	0	13	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1962.5	1960.6	1959.6	1961.6	1962.5	1966.4	1965.4	1967.3	1967.3	1968.3	1970.3
5°	1922.8	1921.8	1922.8	1922.8	1926.7	1930.6	1929.6	1932.5	1934.4	1939.3	1941.2
7.5°	1886.1	1886.1	1885.1	1888.9	1890.9	1896.7	1895.7	1900.6	1903.5	1908.3	1915.1
10°	1848.3	1848.3	1849.2	1852.1	1853.1	1861.8	1861.8	1868.6	1872.5	1877.3	1886.1
12.5°	1811.5	1811.5	1817.3	1815.4	1819.2	1826.0	1828.9	1835.7	1841.5	1851.2	1859.9
15°	1776.6	1776.6	1778.6	1783.4	1786.3	1795.0	1799.9	1807.6	1814.4	1824.1	1836.7
17.5°	1746.6	1745.7	1746.6	1752.4	1758.2	1766.0	1769.8	1779.5	1786.3	1798.9	1810.5
20°	1716.6	1718.6	1718.6	1723.4	1727.2	1736.9	1740.8	1751.5	1759.2	1770.8	1784.4
22.5°	1690.5	1689.5	1689.5	1696.3	1699.2	1707.9	1711.7	1721.4	1730.2	1739.8	1752.4
25°	1664.3	1662.4	1666.3	1667.2	1669.1	1678.8	1681.7	1688.5	1697.2	1706.0	1718.6
27.5°	1625.6	1623.7	1624.6	1628.5	1631.4	1639.1	1641.1	1647.9	1654.6	1662.4	1673.0
30°	1551.0	1549.1	1548.2	1554.9	1557.8	1563.6	1566.5	1578.2	1580.1	1588.8	1596.5
32.5°	1452.3	1451.3	1453.3	1459.0	1462.0	1469.7	1473.6	1480.4	1485.2	1490.0	1497.8
35°	1341.9	1340.0	1341.9	1347.7	1347.7	1354.5	1357.4	1360.3	1359.3	1360.3	1358.4
37.5°	1239.3	1238.3	1239.3	1242.2	1239.3	1242.2	1239.3	1233.5	1222.8	1211.2	1199.6
40°	1152.1	1153.1	1147.3	1151.2	1140.5	1138.6	1128.0	1113.4	1092.1	1068.9	1036.0
42.5°	1059.2	1056.3	1052.4	1054.4	1045.7	1038.8	1021.4	1003.1	975.9	937.2	897.5
45°	945.0	944.0	942.1	941.1	935.3	928.5	914.0	892.7	862.7	823.0	775.5
47.5°	833.6	830.7	830.7	831.7	824.9	823.9	812.3	793.9	767.8	729.0	679.7
50°	727.1	726.1	728.1	732.0	727.1	725.2	717.4	704.9	681.6	648.7	602.2
52.5°	631.2	630.3	632.2	637.1	635.1	637.1	629.3	619.7	604.1	572.2	531.5
55°	537.4	537.4	537.4	543.1	543.1	543.1	539.3	533.5	518.9	495.7	458.0
57.5°	439.6	440.5	446.3	447.3	446.3	448.3	447.3	441.5	431.8	415.4	386.3
60°	357.3	357.3	360.2	363.1	362.1	363.1	363.1	360.2	350.5	336.9	313.7
62.5°	282.7	285.6	283.7	285.6	289.5	285.6	283.7	281.8	275.0	266.2	246.9
65°	214.0	215.9	215.9	216.9	214.9	215.9	212.0	209.1	205.3	195.6	183.0
67.5°	162.7	162.7	162.7	162.7	161.7	160.7	159.8	156.9	150.1	146.2	132.6
70°	124.9	119.1	119.1	119.1	119.1	120.1	117.2	113.3	111.3	104.6	94.9
72.5°	83.2	85.2	83.2	83.2	81.3	82.3	78.4	76.5	74.6	70.7	64.9
75°	60.0	55.2	57.1	58.1	55.2	57.1	53.2	49.4	49.4	46.5	43.6
77.5°	38.7	37.8	38.7	39.7	38.7	37.8	35.8	33.9	33.9	32.9	30.0
80°	28.1	27.1	27.1	27.1	26.1	27.1	25.2	25.2	23.2	22.3	20.3
82.5°	18.4	18.4	17.4	18.4	17.4	18.4	15.5	15.5	15.5	14.5	12.6
85°	12.6	10.6	10.6	11.6	9.7	11.6	10.6	9.7	8.7	8.7	7.7
87.5°	5.8	6.8	5.8	6.8	5.8	5.8	6.8	5.8	5.8	3.9	3.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1973.2	1974.1	1974.1	1978.0	1979.9	1980.9	1980.9	1988.7	1985.8	1987.7	1989.6
5°	1945.1	1950.9	1952.8	1952.8	1963.5	1967.3	1971.2	1979.9	1980.9	1986.7	1993.5
7.5°	1918.0	1924.7	1928.7	1937.3	1944.1	1950.9	1962.5	1968.3	1974.1	1981.9	1990.6
10°	1891.8	1899.6	1907.3	1914.1	1924.7	1933.5	1941.2	1954.8	1961.6	1972.2	1983.8
12.5°	1866.7	1877.3	1884.1	1895.7	1907.3	1915.1	1926.7	1939.3	1949.9	1960.6	1974.1
15°	1844.4	1857.0	1864.7	1877.3	1889.9	1900.6	1913.2	1928.7	1936.4	1949.0	1961.6
17.5°	1820.2	1833.8	1843.5	1855.0	1870.6	1882.1	1892.8	1908.3	1918.0	1931.5	1946.1
20°	1795.0	1808.6	1820.2	1831.8	1847.3	1858.9	1871.5	1887.0	1897.6	1911.2	1922.8
22.5°	1765.0	1777.6	1790.2	1803.7	1819.2	1828.9	1843.5	1857.0	1868.6	1881.2	1892.8
25°	1726.3	1741.8	1751.5	1764.0	1776.6	1787.3	1802.8	1816.3	1826.0	1837.6	1848.3
27.5°	1680.8	1692.4	1700.1	1710.8	1723.4	1733.1	1744.7	1758.2	1767.9	1778.6	1786.3
30°	1603.3	1614.0	1620.8	1628.5	1641.1	1649.8	1659.5	1672.1	1678.8	1686.6	1693.4
32.5°	1501.6	1510.4	1514.2	1520.1	1528.8	1537.5	1545.2	1555.9	1558.8	1563.6	1563.6
35°	1354.5	1356.4	1355.5	1357.4	1361.3	1366.1	1372.9	1379.7	1383.5	1383.5	1380.7
37.5°	1182.2	1170.6	1158.0	1148.3	1145.4	1143.4	1147.3	1150.2	1154.1	1156.0	1151.2
40°	1003.1	976.9	948.8	923.6	906.2	898.5	895.6	897.5	897.5	904.3	904.3
42.5°	849.1	808.4	766.8	729.0	703.9	684.5	675.8	675.8	676.8	681.6	684.5
45°	721.3	670.0	621.6	580.0	545.1	519.9	508.3	505.4	504.4	506.4	513.1
47.5°	623.5	570.3	519.9	468.6	431.8	406.6	396.0	392.1	388.2	392.1	393.1
50°	547.0	491.8	438.6	387.3	348.5	326.3	312.7	306.9	305.9	305.9	307.9
52.5°	477.3	426.0	372.8	320.5	279.8	258.5	245.9	243.0	239.1	243.0	243.0
55°	411.5	360.2	307.9	258.5	224.6	202.4	190.7	186.9	184.9	187.8	187.8
57.5°	339.9	296.3	247.9	203.3	169.4	153.9	145.2	140.4	139.4	141.4	139.4
60°	278.8	242.1	200.4	159.8	133.6	117.2	110.4	108.4	106.5	108.4	108.4
62.5°	220.7	189.8	155.9	124.9	102.6	91.0	83.2	83.2	82.3	82.3	83.2
65°	163.6	139.4	115.2	89.1	71.7	62.9	57.1	57.1	56.2	57.1	56.2
67.5°	119.1	102.6	83.2	64.9	51.3	46.5	42.6	39.7	41.6	39.7	38.7
70°	87.2	73.6	60.0	49.4	39.7	34.9	32.0	31.0	29.1	29.1	29.1
72.5°	58.1	49.4	40.6	32.0	26.1	21.3	20.3	18.4	16.5	17.4	19.4
75°	38.7	32.9	29.1	23.2	17.4	17.4	11.6	11.6	9.7	11.6	8.7
77.5°	27.1	22.3	17.4	14.5	11.6	10.6	7.7	7.7	6.8	6.8	6.8
80°	19.4	16.5	12.6	10.6	7.7	7.7	6.8	5.8	4.8	4.8	5.8
82.5°	11.6	8.7	8.7	7.7	4.8	3.9	2.9	3.9	2.0	2.0	2.0
85°	6.8	5.8	4.8	2.9	2.0	2.0	1.0	0.0	1.0	1.0	0.0
87.5°	3.9	2.0	2.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	2.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1994.5	1993.5	1995.4	1995.4	2001.3	2000.3	2003.2	2003.2	2001.3	2002.2	2006.1
5°	2001.3	2004.2	2010.0	2014.8	2023.5	2027.4	2032.2	2037.1	2038.0	2041.0	2043.9
7.5°	2001.3	2010.9	2017.7	2026.4	2038.0	2044.8	2055.5	2064.2	2068.1	2072.9	2078.7
10°	1997.4	2007.0	2019.6	2029.3	2043.9	2054.5	2065.1	2078.7	2084.5	2092.2	2100.0
12.5°	1989.6	2000.3	2013.8	2026.4	2042.9	2052.6	2066.1	2078.7	2087.4	2098.1	2106.8
15°	1978.0	1990.6	2003.2	2015.8	2033.2	2044.8	2057.4	2071.9	2080.6	2092.2	2100.0
17.5°	1959.6	1973.2	1984.8	1996.4	2012.9	2026.4	2038.0	2051.6	2060.3	2070.0	2080.6
20°	1937.3	1949.9	1962.5	1972.2	1988.7	2000.3	2012.9	2025.5	2032.2	2034.2	2050.6
22.5°	1909.3	1918.0	1927.7	1943.2	1952.8	1963.5	1975.1	1986.7	1993.5	2004.2	2010.0
25°	1862.8	1871.5	1882.1	1888.9	1900.6	1909.3	1920.9	1933.5	1937.3	1945.1	1950.9
27.5°	1797.9	1802.8	1807.6	1813.4	1820.2	1825.0	1831.8	1837.6	1841.5	1845.4	1849.2
30°	1695.3	1695.3	1695.3	1691.4	1694.3	1697.2	1698.2	1697.2	1697.2	1696.3	1696.3
32.5°	1559.7	1552.0	1543.3	1535.6	1532.6	1528.8	1526.8	1523.9	1519.1	1516.2	1517.1
35°	1376.8	1359.3	1348.7	1339.0	1331.3	1325.5	1322.6	1319.6	1318.7	1314.8	1310.9
37.5°	1148.3	1135.7	1128.0	1122.1	1115.4	1109.5	1110.5	1111.5	1114.4	1112.5	1113.4
40°	906.2	903.3	906.2	899.4	897.5	899.4	904.3	911.1	915.0	918.8	925.6
42.5°	689.4	694.2	701.0	701.0	703.9	707.8	713.5	724.2	730.0	736.8	744.5
45°	518.9	524.8	533.5	536.4	538.3	543.1	550.0	558.6	562.5	568.3	575.1
47.5°	399.9	403.7	408.6	413.4	418.2	420.2	427.0	427.0	431.8	435.7	437.6
50°	311.8	315.6	319.5	322.4	324.4	327.3	329.2	332.1	333.0	335.0	335.9
52.5°	244.0	248.8	248.8	250.7	253.7	256.6	255.6	256.6	257.5	257.5	260.4
55°	190.7	190.7	193.6	193.6	195.6	194.6	195.6	195.6	195.6	195.6	196.5
57.5°	142.3	143.3	146.2	144.3	143.3	145.2	143.3	145.2	144.3	146.2	143.3
60°	109.4	109.4	110.4	110.4	111.3	111.3	111.3	110.4	110.4	109.4	109.4
62.5°	82.3	83.2	84.2	83.2	83.2	83.2	82.3	82.3	81.3	80.3	80.3
65°	55.2	54.2	56.2	54.2	55.2	55.2	54.2	55.2	52.3	53.2	52.3
67.5°	39.7	38.7	37.8	38.7	37.8	36.8	36.8	37.8	38.7	35.8	35.8
70°	26.1	27.1	26.1	27.1	28.1	28.1	27.1	26.1	27.1	25.2	26.1
72.5°	16.5	16.5	16.5	16.5	16.5	17.4	17.4	17.4	15.5	15.5	14.5
75°	7.7	10.6	8.7	7.7	10.6	10.6	9.7	9.7	8.7	8.7	8.7
77.5°	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.8	5.8	4.8
80°	3.9	3.9	3.9	2.9	3.9	3.9	4.8	3.9	3.9	2.9	4.8
82.5°	2.0	2.0	2.0	0.0	1.0	2.0	2.0	1.0	2.0	2.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P245908

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	2005.1	2004.2	2005.1	2006.1	2005.1	2004.2	2005.1	2006.1	2002.2	2001.3	2003.2
5°	2047.7	2047.7	2049.6	2050.6	2049.6	2047.7	2047.7	2043.9	2041.0	2038.0	2037.1
7.5°	2084.5	2086.5	2088.4	2089.3	2088.4	2086.5	2084.5	2078.7	2072.9	2068.1	2064.2
10°	2106.8	2109.7	2113.6	2115.5	2113.6	2109.7	2106.8	2100.0	2092.2	2084.5	2078.7
12.5°	2116.5	2119.4	2124.2	2123.2	2124.2	2119.4	2116.5	2106.8	2098.1	2087.4	2078.7
15°	2109.7	2113.6	2118.4	2120.3	2118.4	2113.6	2109.7	2100.0	2092.2	2080.6	2071.9
17.5°	2088.4	2094.2	2097.1	2100.0	2097.1	2094.2	2088.4	2080.6	2070.0	2060.3	2051.6
20°	2059.3	2063.2	2067.1	2068.1	2067.1	2063.2	2059.3	2050.6	2034.2	2032.2	2025.5
22.5°	2017.7	2020.6	2029.3	2026.4	2029.3	2020.6	2017.7	2010.0	2004.2	1993.5	1986.7
25°	1957.7	1960.6	1961.6	1962.5	1961.6	1960.6	1957.7	1950.9	1945.1	1937.3	1933.5
27.5°	1854.1	1854.1	1856.0	1857.0	1856.0	1854.1	1854.1	1849.2	1845.4	1841.5	1837.6
30°	1697.2	1697.2	1697.2	1702.1	1697.2	1697.2	1697.2	1696.3	1696.3	1697.2	1697.2
32.5°	1516.2	1514.2	1512.3	1514.2	1512.3	1514.2	1516.2	1517.1	1516.2	1519.1	1523.9
35°	1310.9	1310.0	1312.9	1309.0	1312.9	1310.0	1310.9	1310.9	1314.8	1318.7	1319.6
37.5°	1114.4	1112.5	1116.3	1112.5	1116.3	1112.5	1114.4	1113.4	1112.5	1114.4	1111.5
40°	927.5	929.5	929.5	937.2	929.5	929.5	927.5	925.6	918.8	915.0	911.1
42.5°	748.4	754.2	752.3	758.1	752.3	754.2	748.4	744.5	736.8	730.0	724.2
45°	579.0	582.9	582.9	584.8	582.9	582.9	579.0	575.1	568.3	562.5	558.6
47.5°	444.4	444.4	444.4	445.4	444.4	444.4	444.4	437.6	435.7	431.8	427.0
50°	337.9	338.9	339.9	340.8	339.9	338.9	337.9	335.9	335.0	333.0	332.1
52.5°	259.5	260.4	258.5	260.4	258.5	260.4	259.5	260.4	257.5	257.5	256.6
55°	196.5	195.6	196.5	197.5	196.5	195.6	196.5	196.5	195.6	195.6	195.6
57.5°	144.3	142.3	142.3	142.3	142.3	142.3	144.3	143.3	146.2	144.3	145.2
60°	107.5	108.4	108.4	109.4	108.4	108.4	107.5	109.4	109.4	110.4	110.4
62.5°	79.4	82.3	80.3	82.3	80.3	82.3	79.4	80.3	80.3	81.3	82.3
65°	51.3	51.3	51.3	52.3	51.3	51.3	51.3	52.3	53.2	52.3	55.2
67.5°	34.9	35.8	37.8	36.8	37.8	35.8	34.9	35.8	35.8	38.7	37.8
70°	28.1	25.2	25.2	28.1	25.2	25.2	28.1	26.1	25.2	27.1	26.1
72.5°	16.5	14.5	16.5	16.5	16.5	14.5	16.5	14.5	15.5	15.5	17.4
75°	8.7	7.7	6.8	9.7	6.8	7.7	8.7	8.7	8.7	8.7	9.7
77.5°	5.8	4.8	6.8	6.8	6.8	4.8	5.8	4.8	5.8	4.8	5.8
80°	2.9	3.9	2.9	4.8	2.9	3.9	2.9	4.8	2.9	3.9	3.9
82.5°	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0
85°	0.0	2.0	1.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
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: P245908

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	2003.2	2000.3	2001.3	1995.4	1995.4	1993.5	1994.5	1989.6	1987.7	1985.8	1988.7
5°	2032.2	2027.4	2023.5	2014.8	2010.0	2004.2	2001.3	1993.5	1986.7	1980.9	1979.9
7.5°	2055.5	2044.8	2038.0	2026.4	2017.7	2010.9	2001.3	1990.6	1981.9	1974.1	1968.3
10°	2065.1	2054.5	2043.9	2029.3	2019.6	2007.0	1997.4	1983.8	1972.2	1961.6	1954.8
12.5°	2066.1	2052.6	2042.9	2026.4	2013.8	2000.3	1989.6	1974.1	1960.6	1949.9	1939.3
15°	2057.4	2044.8	2033.2	2015.8	2003.2	1990.6	1978.0	1961.6	1949.0	1936.4	1928.7
17.5°	2038.0	2026.4	2012.9	1996.4	1984.8	1973.2	1959.6	1946.1	1931.5	1918.0	1908.3
20°	2012.9	2000.3	1988.7	1972.2	1962.5	1949.9	1937.3	1922.8	1911.2	1897.6	1887.0
22.5°	1975.1	1963.5	1952.8	1943.2	1927.7	1918.0	1909.3	1892.8	1881.2	1868.6	1857.0
25°	1920.9	1909.3	1900.6	1888.9	1882.1	1871.5	1862.8	1848.3	1837.6	1826.0	1816.3
27.5°	1831.8	1825.0	1820.2	1813.4	1807.6	1802.8	1797.9	1786.3	1778.6	1767.9	1758.2
30°	1698.2	1697.2	1694.3	1691.4	1695.3	1695.3	1695.3	1693.4	1686.6	1678.8	1672.1
32.5°	1526.8	1528.8	1532.6	1535.6	1543.3	1552.0	1559.7	1563.6	1563.6	1558.8	1555.9
35°	1322.6	1325.5	1331.3	1339.0	1348.7	1359.3	1376.8	1380.7	1383.5	1383.5	1379.7
37.5°	1110.5	1109.5	1115.4	1122.1	1128.0	1135.7	1148.3	1151.2	1156.0	1154.1	1150.2
40°	904.3	899.4	897.5	899.4	906.2	903.3	906.2	904.3	904.3	897.5	897.5
42.5°	713.5	707.8	703.9	701.0	701.0	694.2	689.4	684.5	681.6	676.8	675.8
45°	550.0	543.1	538.3	536.4	533.5	524.8	518.9	513.1	506.4	504.4	505.4
47.5°	427.0	420.2	418.2	413.4	408.6	403.7	399.9	393.1	392.1	388.2	392.1
50°	329.2	327.3	324.4	322.4	319.5	315.6	311.8	307.9	305.9	305.9	306.9
52.5°	255.6	256.6	253.7	250.7	248.8	248.8	244.0	243.0	243.0	239.1	243.0
55°	195.6	194.6	195.6	193.6	193.6	190.7	190.7	187.8	187.8	184.9	186.9
57.5°	143.3	145.2	143.3	144.3	146.2	143.3	142.3	139.4	141.4	139.4	140.4
60°	111.3	111.3	111.3	110.4	110.4	109.4	109.4	108.4	108.4	106.5	108.4
62.5°	82.3	83.2	83.2	83.2	84.2	83.2	82.3	83.2	82.3	82.3	83.2
65°	54.2	55.2	55.2	54.2	56.2	54.2	55.2	56.2	57.1	56.2	57.1
67.5°	36.8	36.8	37.8	38.7	37.8	38.7	39.7	38.7	39.7	41.6	39.7
70°	27.1	28.1	28.1	27.1	26.1	27.1	26.1	29.1	29.1	29.1	31.0
72.5°	17.4	17.4	16.5	16.5	16.5	16.5	16.5	19.4	17.4	16.5	18.4
75°	9.7	10.6	10.6	7.7	8.7	10.6	7.7	8.7	11.6	9.7	11.6
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	7.7	6.8	6.8	6.8	7.7
80°	4.8	3.9	3.9	2.9	3.9	3.9	3.9	5.8	4.8	4.8	5.8
82.5°	2.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
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: P245908

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1980.9	1980.9	1979.9	1978.0	1974.1	1974.1	1973.2	1970.3	1968.3	1967.3	1967.3
5°	1971.2	1967.3	1963.5	1952.8	1952.8	1950.9	1945.1	1941.2	1939.3	1934.4	1932.5
7.5°	1962.5	1950.9	1944.1	1937.3	1928.7	1924.7	1918.0	1915.1	1908.3	1903.5	1900.6
10°	1941.2	1933.5	1924.7	1914.1	1907.3	1899.6	1891.8	1886.1	1877.3	1872.5	1868.6
12.5°	1926.7	1915.1	1907.3	1895.7	1884.1	1877.3	1866.7	1859.9	1851.2	1841.5	1835.7
15°	1913.2	1900.6	1889.9	1877.3	1864.7	1857.0	1844.4	1836.7	1824.1	1814.4	1807.6
17.5°	1892.8	1882.1	1870.6	1855.0	1843.5	1833.8	1820.2	1810.5	1798.9	1786.3	1779.5
20°	1871.5	1858.9	1847.3	1831.8	1820.2	1808.6	1795.0	1784.4	1770.8	1759.2	1751.5
22.5°	1843.5	1828.9	1819.2	1803.7	1790.2	1777.6	1765.0	1752.4	1739.8	1730.2	1721.4
25°	1802.8	1787.3	1776.6	1764.0	1751.5	1741.8	1726.3	1718.6	1706.0	1697.2	1688.5
27.5°	1744.7	1733.1	1723.4	1710.8	1700.1	1692.4	1680.8	1673.0	1662.4	1654.6	1647.9
30°	1659.5	1649.8	1641.1	1628.5	1620.8	1614.0	1603.3	1596.5	1588.8	1580.1	1578.2
32.5°	1545.2	1537.5	1528.8	1520.1	1514.2	1510.4	1501.6	1497.8	1490.0	1485.2	1480.4
35°	1372.9	1366.1	1361.3	1357.4	1355.5	1356.4	1354.5	1358.4	1360.3	1359.3	1360.3
37.5°	1147.3	1143.4	1145.4	1148.3	1158.0	1170.6	1182.2	1199.6	1211.2	1222.8	1233.5
40°	895.6	898.5	906.2	923.6	948.8	976.9	1003.1	1036.0	1068.9	1092.1	1113.4
42.5°	675.8	684.5	703.9	729.0	766.8	808.4	849.1	897.5	937.2	975.9	1003.1
45°	508.3	519.9	545.1	580.0	621.6	670.0	721.3	775.5	823.0	862.7	892.7
47.5°	396.0	406.6	431.8	468.6	519.9	570.3	623.5	679.7	729.0	767.8	793.9
50°	312.7	326.3	348.5	387.3	438.6	491.8	547.0	602.2	648.7	681.6	704.9
52.5°	245.9	258.5	279.8	320.5	372.8	426.0	477.3	531.5	572.2	604.1	619.7
55°	190.7	202.4	224.6	258.5	307.9	360.2	411.5	458.0	495.7	518.9	533.5
57.5°	145.2	153.9	169.4	203.3	247.9	296.3	339.9	386.3	415.4	431.8	441.5
60°	110.4	117.2	133.6	159.8	200.4	242.1	278.8	313.7	336.9	350.5	360.2
62.5°	83.2	91.0	102.6	124.9	155.9	189.8	220.7	246.9	266.2	275.0	281.8
65°	57.1	62.9	71.7	89.1	115.2	139.4	163.6	183.0	195.6	205.3	209.1
67.5°	42.6	46.5	51.3	64.9	83.2	102.6	119.1	132.6	146.2	150.1	156.9
70°	32.0	34.9	39.7	49.4	60.0	73.6	87.2	94.9	104.6	111.3	113.3
72.5°	20.3	21.3	26.1	32.0	40.6	49.4	58.1	64.9	70.7	74.6	76.5
75°	11.6	17.4	17.4	23.2	29.1	32.9	38.7	43.6	46.5	49.4	49.4
77.5°	7.7	10.6	11.6	14.5	17.4	22.3	27.1	30.0	32.9	33.9	33.9
80°	6.8	7.7	7.7	10.6	12.6	16.5	19.4	20.3	22.3	23.2	25.2
82.5°	2.9	3.9	4.8	7.7	8.7	8.7	11.6	12.6	14.5	15.5	15.5
85°	1.0	2.0	2.0	2.9	4.8	5.8	6.8	7.7	8.7	8.7	9.7
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	3.9	3.9	3.9	5.8	5.8
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: P245908

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9	1982.9
2.5°	1965.4	1966.4	1962.5	1961.6	1959.6	1960.6	1962.5
5°	1929.6	1930.6	1926.7	1922.8	1922.8	1921.8	1922.8
7.5°	1895.7	1896.7	1890.9	1888.9	1885.1	1886.1	1886.1
10°	1861.8	1861.8	1853.1	1852.1	1849.2	1848.3	1848.3
12.5°	1828.9	1826.0	1819.2	1815.4	1817.3	1811.5	1811.5
15°	1799.9	1795.0	1786.3	1783.4	1778.6	1776.6	1776.6
17.5°	1769.8	1766.0	1758.2	1752.4	1746.6	1745.7	1746.6
20°	1740.8	1736.9	1727.2	1723.4	1718.6	1718.6	1716.6
22.5°	1711.7	1707.9	1699.2	1696.3	1689.5	1689.5	1690.5
25°	1681.7	1678.8	1669.1	1667.2	1666.3	1662.4	1664.3
27.5°	1641.1	1639.1	1631.4	1628.5	1624.6	1623.7	1625.6
30°	1566.5	1563.6	1557.8	1554.9	1548.2	1549.1	1551.0
32.5°	1473.6	1469.7	1462.0	1459.0	1453.3	1451.3	1452.3
35°	1357.4	1354.5	1347.7	1347.7	1341.9	1340.0	1341.9
37.5°	1239.3	1242.2	1239.3	1242.2	1239.3	1238.3	1239.3
40°	1128.0	1138.6	1140.5	1151.2	1147.3	1153.1	1152.1
42.5°	1021.4	1038.8	1045.7	1054.4	1052.4	1056.3	1059.2
45°	914.0	928.5	935.3	941.1	942.1	944.0	945.0
47.5°	812.3	823.9	824.9	831.7	830.7	830.7	833.6
50°	717.4	725.2	727.1	732.0	728.1	726.1	727.1
52.5°	629.3	637.1	635.1	637.1	632.2	630.3	631.2
55°	539.3	543.1	543.1	543.1	537.4	537.4	537.4
57.5°	447.3	448.3	446.3	447.3	446.3	440.5	439.6
60°	363.1	363.1	362.1	363.1	360.2	357.3	357.3
62.5°	283.7	285.6	289.5	285.6	283.7	285.6	282.7
65°	212.0	215.9	214.9	216.9	215.9	215.9	214.0
67.5°	159.8	160.7	161.7	162.7	162.7	162.7	162.7
70°	117.2	120.1	119.1	119.1	119.1	119.1	124.9
72.5°	78.4	82.3	81.3	83.2	83.2	85.2	83.2
75°	53.2	57.1	55.2	58.1	57.1	55.2	60.0
77.5°	35.8	37.8	38.7	39.7	38.7	37.8	38.7
80°	25.2	27.1	26.1	27.1	27.1	27.1	28.1
82.5°	15.5	18.4	17.4	18.4	17.4	18.4	18.4
85°	10.6	11.6	9.7	11.6	10.6	10.6	12.6
87.5°	6.8	5.8	5.8	6.8	5.8	6.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)