

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: P245902

Luminaire Tested: **LD8B40D010 ER8B40835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245902
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 ER8B40835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

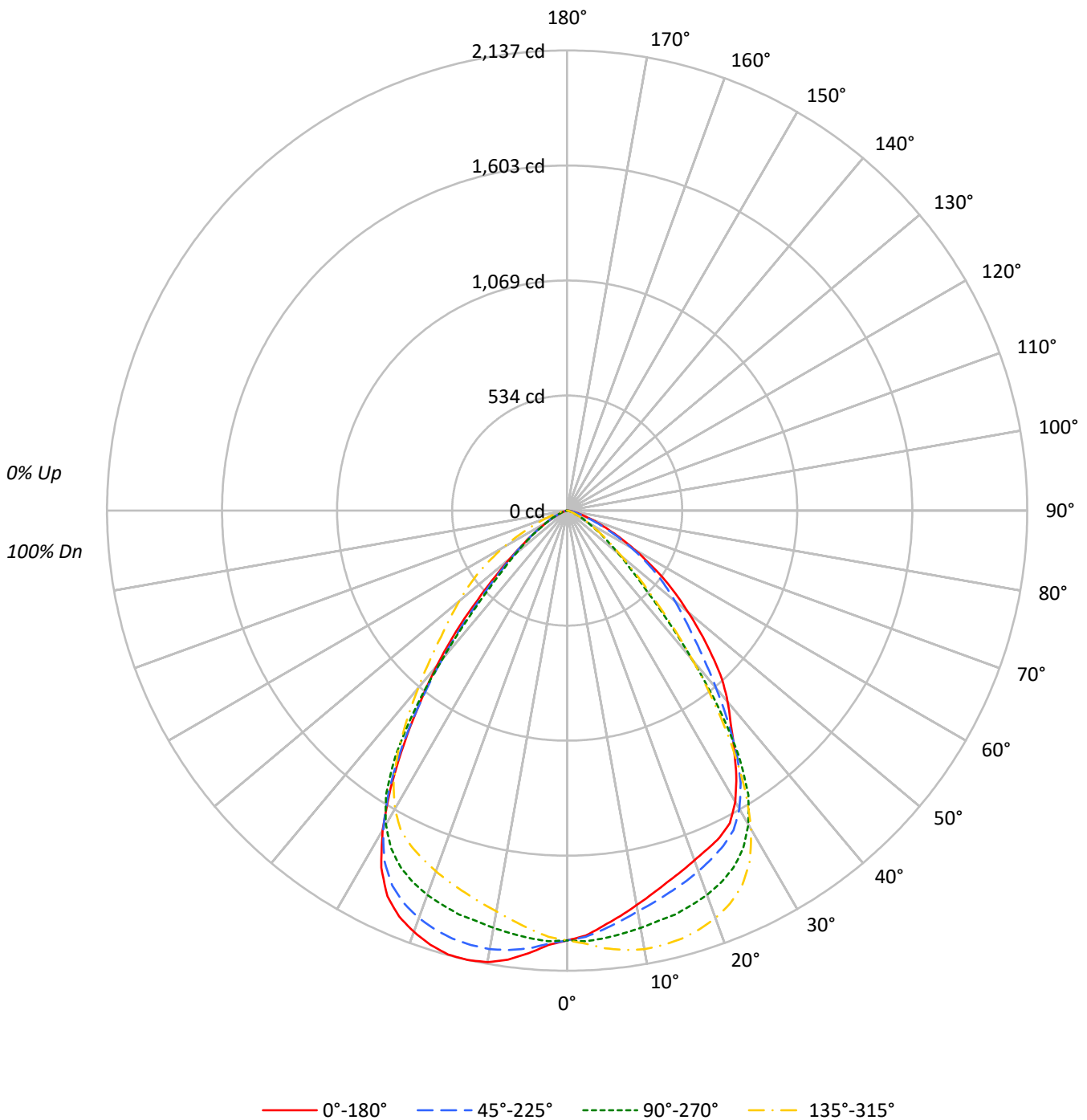
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61546	61546	61546	61546
5°	59912	61692	63892	61692
10°	58253	61610	66676	61610
15°	57090	61977	68136	61977
20°	56702	62329	68312	62329
25°	57001	62206	67215	62206
30°	55589	59930	61005	59930
35°	50850	52276	49600	52276
40°	46683	36365	37976	36365
45°	41481	22184	25668	22184
50°	35111	14819	16459	14819
55°	29080	10113	10688	10113
60°	22177	6735	6790	6735
65°	15717	4195	3838	4195
70°	11333	2813	2552	2813
75°	7196	1394	1156	1394
80°	5025	1048	870	1048
85°	4493	0	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	5.7
10°-20°	550.1	16.4
20°-30°	833.0	24.8
30°-40°	834.9	24.8
40°-50°	524.3	15.6
50°-60°	279.4	8.3
60°-70°	114.9	3.4
70°-80°	30.4	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°	1573.1	46.8
0°-40°	2408.0	71.6
0°-60°	3211.6	95.5
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1996	1996	1996	1996	1996	
5°	1936	1993	2064	1993	1936	183
15°	1788	1941	2134	1941	1788	506
25°	1675	1828	1976	1828	1675	768
35°	1351	1389	1318	1389	1351	846
45°	951	509	589	509	951	732
55°	541	188	199	188	541	482
65°	215	58	53	58	215	223
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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1975.5	1973.5	1972.5	1974.5	1975.5	1979.3	1978.4	1980.3	1980.3	1981.3	1983.2
5°	1935.5	1934.5	1935.5	1935.5	1939.4	1943.3	1942.3	1945.2	1947.2	1952.1	1954.0
7.5°	1898.5	1898.5	1897.5	1901.4	1903.3	1909.2	1908.2	1913.1	1916.0	1920.9	1927.7
10°	1860.4	1860.4	1861.4	1864.3	1865.3	1874.1	1874.1	1880.9	1884.8	1889.7	1898.5
12.5°	1823.4	1823.4	1829.3	1827.3	1831.2	1838.0	1841.0	1847.8	1853.6	1863.4	1872.2
15°	1788.3	1788.3	1790.3	1795.1	1798.1	1806.9	1811.7	1819.5	1826.4	1836.1	1848.8
17.5°	1758.1	1757.2	1758.1	1764.0	1769.8	1777.6	1781.5	1791.3	1798.1	1810.7	1822.5
20°	1727.9	1729.9	1729.9	1734.7	1738.6	1748.4	1752.3	1763.0	1770.8	1782.5	1796.1
22.5°	1701.6	1700.6	1700.6	1707.5	1710.4	1719.1	1723.0	1732.8	1741.5	1751.3	1764.0
25°	1675.3	1673.3	1677.2	1678.2	1680.1	1689.9	1692.8	1699.6	1708.4	1717.2	1729.9
27.5°	1636.3	1634.4	1635.3	1639.2	1642.1	1649.9	1651.9	1658.7	1665.5	1673.3	1684.1
30°	1561.2	1559.3	1558.3	1565.2	1568.1	1573.9	1576.8	1588.6	1590.5	1599.3	1607.0
32.5°	1461.8	1460.9	1462.8	1468.7	1471.6	1479.4	1483.3	1490.1	1495.0	1499.9	1507.6
35°	1350.8	1348.8	1350.8	1356.6	1356.6	1363.4	1366.4	1369.3	1368.3	1369.3	1367.3
37.5°	1247.5	1246.5	1247.5	1250.4	1247.5	1250.4	1247.5	1241.6	1230.9	1219.2	1207.5
40°	1159.7	1160.7	1154.9	1158.8	1148.0	1146.1	1135.4	1120.7	1099.3	1075.9	1042.8
42.5°	1066.2	1063.3	1059.4	1061.3	1052.6	1045.7	1028.2	1009.7	982.4	943.4	903.4
45°	951.2	950.2	948.3	947.3	941.4	934.6	920.0	898.6	868.3	828.4	780.6
47.5°	839.1	836.2	836.2	837.1	830.3	829.4	817.6	799.2	772.8	733.8	684.1
50°	731.9	730.9	732.9	736.8	731.9	730.0	722.2	709.5	686.1	653.0	606.2
52.5°	635.4	634.4	636.4	641.3	639.3	641.3	633.5	623.7	608.1	576.0	535.0
55°	540.9	540.9	540.9	546.7	546.7	546.7	542.8	537.0	522.4	499.0	461.0
57.5°	442.5	443.4	449.3	450.2	449.3	451.2	450.2	444.4	434.7	418.1	388.9
60°	359.6	359.6	362.6	365.5	364.5	365.5	365.5	362.6	352.8	339.2	315.8
62.5°	284.6	287.5	285.5	287.5	291.4	287.5	285.5	283.6	276.8	268.0	248.5
65°	215.4	217.3	217.3	218.3	216.3	217.3	213.4	210.5	206.6	196.9	184.2
67.5°	163.7	163.7	163.7	163.7	162.7	161.8	160.8	157.9	151.1	147.2	133.5
70°	125.7	119.9	119.9	119.9	119.9	120.9	117.9	114.0	112.1	105.3	95.5
72.5°	83.8	85.8	83.8	83.8	81.9	82.8	78.9	77.0	75.1	71.2	65.3
75°	60.4	55.6	57.5	58.5	55.6	57.5	53.6	49.7	49.7	46.8	43.8
77.5°	39.0	38.0	39.0	40.0	39.0	38.0	36.1	34.1	34.1	33.1	30.2
80°	28.3	27.3	27.3	27.3	26.3	27.3	25.4	25.4	23.4	22.4	20.5
82.5°	18.5	18.5	17.5	18.5	17.5	18.5	15.6	15.6	15.6	14.6	12.7
85°	12.7	10.7	10.7	11.7	9.7	11.7	10.7	9.7	8.8	8.8	7.8
87.5°	5.9	6.8	5.9	6.8	5.9	5.9	6.8	5.9	5.9	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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1986.2	1987.1	1987.1	1991.1	1993.0	1993.9	1993.9	2001.8	1998.8	2000.8	2002.7
5°	1957.9	1963.7	1965.7	1965.7	1976.4	1980.3	1984.2	1993.0	1993.9	1999.8	2006.6
7.5°	1930.6	1937.4	1941.4	1950.1	1956.9	1963.7	1975.5	1981.3	1987.1	1995.0	2003.7
10°	1904.3	1912.1	1919.9	1926.7	1937.4	1946.2	1954.0	1967.6	1974.5	1985.2	1996.9
12.5°	1879.0	1889.7	1896.5	1908.2	1919.9	1927.7	1939.4	1952.1	1962.8	1973.5	1987.1
15°	1856.6	1869.2	1877.0	1889.7	1902.4	1913.1	1925.8	1941.4	1949.1	1961.8	1974.5
17.5°	1832.2	1845.8	1855.6	1867.3	1882.9	1894.5	1905.3	1920.9	1930.6	1944.2	1958.9
20°	1806.9	1820.5	1832.2	1843.9	1859.5	1871.2	1883.8	1899.4	1910.1	1923.8	1935.5
22.5°	1776.6	1789.3	1802.0	1815.6	1831.2	1841.0	1855.6	1869.2	1880.9	1893.6	1905.3
25°	1737.7	1753.3	1763.0	1775.6	1788.3	1799.0	1814.6	1828.3	1838.0	1849.7	1860.4
27.5°	1691.8	1703.6	1711.3	1722.1	1734.7	1744.5	1756.2	1769.8	1779.6	1790.3	1798.1
30°	1613.9	1624.6	1631.4	1639.2	1651.9	1660.7	1670.4	1683.1	1689.9	1697.7	1704.5
32.5°	1511.5	1520.3	1524.2	1530.1	1538.9	1547.6	1555.4	1566.1	1569.1	1573.9	1573.9
35°	1363.4	1365.4	1364.4	1366.4	1370.3	1375.1	1381.9	1388.7	1392.6	1392.6	1389.8
37.5°	1189.9	1178.3	1165.6	1155.8	1152.9	1151.0	1154.9	1157.8	1161.7	1163.6	1158.8
40°	1009.7	983.4	955.1	929.7	912.2	904.4	901.5	903.4	903.4	910.2	910.2
42.5°	854.7	813.8	771.9	733.8	708.5	689.0	680.3	680.3	681.2	686.1	689.0
45°	726.1	674.4	625.7	583.8	548.7	523.3	511.7	508.7	507.8	509.7	516.5
47.5°	627.6	574.0	523.3	471.7	434.7	409.3	398.6	394.7	390.8	394.7	395.7
50°	550.6	495.1	441.5	389.8	350.8	328.4	314.8	308.9	308.0	308.0	309.9
52.5°	480.4	428.8	375.2	322.6	281.6	260.2	247.5	244.6	240.7	244.6	244.6
55°	414.2	362.6	309.9	260.2	226.1	203.7	192.0	188.1	186.1	189.1	189.1
57.5°	342.1	298.2	249.5	204.7	170.6	155.0	146.2	141.3	140.3	142.3	140.3
60°	280.7	243.7	201.7	160.8	134.5	117.9	111.1	109.2	107.2	109.2	109.2
62.5°	222.2	191.0	156.9	125.7	103.3	91.6	83.8	83.8	82.8	82.8	83.8
65°	164.7	140.3	116.0	89.7	72.1	63.3	57.5	57.5	56.5	57.5	56.5
67.5°	119.9	103.3	83.8	65.3	51.7	46.8	42.9	40.0	41.9	40.0	39.0
70°	87.7	74.1	60.4	49.7	40.0	35.1	32.2	31.2	29.2	29.2	29.2
72.5°	58.5	49.7	40.9	32.2	26.3	21.4	20.5	18.5	16.6	17.5	19.5
75°	39.0	33.1	29.2	23.4	17.5	17.5	11.7	11.7	9.7	11.7	8.8
77.5°	27.3	22.4	17.5	14.6	11.7	10.7	7.8	7.8	6.8	6.8	6.8
80°	19.5	16.6	12.7	10.7	7.8	7.8	6.8	5.9	4.9	4.9	5.9
82.5°	11.7	8.8	8.8	7.8	4.9	3.9	2.9	3.9	2.0	2.0	2.0
85°	6.8	5.9	4.9	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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	2007.6	2006.6	2008.6	2008.6	2014.4	2013.4	2016.4	2016.4	2014.4	2015.4	2019.3
5°	2014.4	2017.4	2023.2	2028.1	2036.8	2040.8	2045.6	2050.5	2051.5	2054.4	2057.3
7.5°	2014.4	2024.2	2031.0	2039.8	2051.5	2058.3	2069.0	2077.8	2081.7	2086.5	2092.4
10°	2010.5	2020.3	2032.9	2042.7	2057.3	2068.0	2078.7	2092.4	2098.2	2106.0	2113.8
12.5°	2002.7	2013.4	2027.1	2039.8	2056.3	2066.1	2079.7	2092.4	2101.2	2111.9	2120.7
15°	1991.1	2003.7	2016.4	2029.0	2046.6	2058.3	2071.0	2085.6	2094.4	2106.0	2113.8
17.5°	1972.5	1986.2	1997.9	2009.6	2026.1	2039.8	2051.5	2065.1	2073.9	2083.6	2094.4
20°	1950.1	1962.8	1975.5	1985.2	2001.8	2013.4	2026.1	2038.8	2045.6	2047.6	2064.1
22.5°	1921.9	1930.6	1940.4	1956.0	1965.7	1976.4	1988.1	1999.8	2006.6	2017.4	2023.2
25°	1875.0	1883.8	1894.5	1901.4	1913.1	1921.9	1933.5	1946.2	1950.1	1957.9	1963.7
27.5°	1809.8	1814.6	1819.5	1825.3	1832.2	1837.1	1843.9	1849.7	1853.6	1857.5	1861.4
30°	1706.5	1706.5	1706.5	1702.6	1705.5	1708.4	1709.4	1708.4	1708.4	1707.5	1707.5
32.5°	1570.0	1562.2	1553.5	1545.7	1542.7	1538.9	1536.9	1534.0	1529.1	1526.2	1527.1
35°	1385.8	1368.3	1357.6	1347.8	1340.0	1334.2	1331.3	1328.3	1327.4	1323.5	1319.6
37.5°	1155.8	1143.2	1135.4	1129.5	1122.7	1116.9	1117.8	1118.8	1121.7	1119.8	1120.7
40°	912.2	909.3	912.2	905.4	903.4	905.4	910.2	917.1	921.0	924.9	931.7
42.5°	693.9	698.7	705.6	705.6	708.5	712.4	718.2	729.0	734.8	741.6	749.5
45°	522.4	528.2	537.0	539.9	541.9	546.7	553.6	562.3	566.2	572.1	578.9
47.5°	402.5	406.4	411.2	416.1	421.0	423.0	429.8	429.8	434.7	438.6	440.5
50°	313.8	317.7	321.6	324.5	326.5	329.4	331.3	334.3	335.2	337.2	338.2
52.5°	245.6	250.5	250.5	252.4	255.3	258.3	257.3	258.3	259.2	259.2	262.1
55°	192.0	192.0	194.9	194.9	196.9	195.9	196.9	196.9	196.9	196.9	197.8
57.5°	143.2	144.2	147.2	145.2	144.2	146.2	144.2	146.2	145.2	147.2	144.2
60°	110.1	110.1	111.1	111.1	112.1	112.1	112.1	111.1	111.1	110.1	110.1
62.5°	82.8	83.8	84.8	83.8	83.8	83.8	82.8	82.8	81.9	80.9	80.9
65°	55.6	54.6	56.5	54.6	55.6	55.6	54.6	55.6	52.6	53.6	52.6
67.5°	40.0	39.0	38.0	39.0	38.0	37.0	37.0	38.0	39.0	36.1	36.1
70°	26.3	27.3	26.3	27.3	28.3	28.3	27.3	26.3	27.3	25.4	26.3
72.5°	16.6	16.6	16.6	16.6	16.6	17.5	17.5	17.5	15.6	15.6	14.6
75°	7.8	10.7	8.8	7.8	10.7	10.7	9.7	9.7	8.8	8.8	8.8
77.5°	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	5.9	4.9
80°	3.9	3.9	3.9	2.9	3.9	3.9	4.9	3.9	3.9	2.9	4.9
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: P245902

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	2018.3	2017.4	2018.3	2019.3	2018.3	2017.4	2018.3	2019.3	2015.4	2014.4	2016.4
5°	2061.2	2061.2	2063.1	2064.1	2063.1	2061.2	2061.2	2057.3	2054.4	2051.5	2050.5
7.5°	2098.2	2100.2	2102.1	2103.1	2102.1	2100.2	2098.2	2092.4	2086.5	2081.7	2077.8
10°	2120.7	2123.6	2127.5	2129.4	2127.5	2123.6	2120.7	2113.8	2106.0	2098.2	2092.4
12.5°	2130.4	2133.3	2138.2	2137.2	2138.2	2133.3	2130.4	2120.7	2111.9	2101.2	2092.4
15°	2123.6	2127.5	2132.3	2134.3	2132.3	2127.5	2123.6	2113.8	2106.0	2094.4	2085.6
17.5°	2102.1	2108.0	2110.9	2113.8	2110.9	2108.0	2102.1	2094.4	2083.6	2073.9	2065.1
20°	2072.9	2076.8	2080.7	2081.7	2080.7	2076.8	2072.9	2064.1	2047.6	2045.6	2038.8
22.5°	2031.0	2033.9	2042.7	2039.8	2042.7	2033.9	2031.0	2023.2	2017.4	2006.6	1999.8
25°	1970.6	1973.5	1974.5	1975.5	1974.5	1973.5	1970.6	1963.7	1957.9	1950.1	1946.2
27.5°	1866.3	1866.3	1868.2	1869.2	1868.2	1866.3	1866.3	1861.4	1857.5	1853.6	1849.7
30°	1708.4	1708.4	1708.4	1713.3	1708.4	1708.4	1708.4	1707.5	1707.5	1708.4	1708.4
32.5°	1526.2	1524.2	1522.3	1524.2	1522.3	1524.2	1526.2	1527.1	1526.2	1529.1	1534.0
35°	1319.6	1318.6	1321.5	1317.6	1321.5	1318.6	1319.6	1319.6	1323.5	1327.4	1328.3
37.5°	1121.7	1119.8	1123.7	1119.8	1123.7	1119.8	1121.7	1120.7	1119.8	1121.7	1118.8
40°	933.7	935.6	935.6	943.4	935.6	935.6	933.7	931.7	924.9	921.0	917.1
42.5°	753.3	759.2	757.2	763.1	757.2	759.2	753.3	749.5	741.6	734.8	729.0
45°	582.8	586.7	586.7	588.6	586.7	586.7	582.8	578.9	572.1	566.2	562.3
47.5°	447.3	447.3	447.3	448.3	447.3	447.3	447.3	440.5	438.6	434.7	429.8
50°	340.1	341.1	342.1	343.1	342.1	341.1	340.1	338.2	337.2	335.2	334.3
52.5°	261.2	262.1	260.2	262.1	260.2	262.1	261.2	262.1	259.2	259.2	258.3
55°	197.8	196.9	197.8	198.8	197.8	196.9	197.8	197.8	196.9	196.9	196.9
57.5°	145.2	143.2	143.2	143.2	143.2	143.2	145.2	144.2	147.2	145.2	146.2
60°	108.2	109.2	109.2	110.1	109.2	109.2	108.2	110.1	110.1	111.1	111.1
62.5°	79.9	82.8	80.9	82.8	80.9	82.8	79.9	80.9	80.9	81.9	82.8
65°	51.7	51.7	51.7	52.6	51.7	51.7	51.7	52.6	53.6	52.6	55.6
67.5°	35.1	36.1	38.0	37.0	38.0	36.1	35.1	36.1	36.1	39.0	38.0
70°	28.3	25.4	25.4	28.3	25.4	25.4	28.3	26.3	25.4	27.3	26.3
72.5°	16.6	14.6	16.6	16.6	16.6	14.6	16.6	14.6	15.6	15.6	17.5
75°	8.8	7.8	6.8	9.7	6.8	7.8	8.8	8.8	8.8	8.8	9.7
77.5°	5.9	4.9	6.8	6.8	6.8	4.9	5.9	4.9	5.9	4.9	5.9
80°	2.9	3.9	2.9	4.9	2.9	3.9	2.9	4.9	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: P245902

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	2016.4	2013.4	2014.4	2008.6	2008.6	2006.6	2007.6	2002.7	2000.8	1998.8	2001.8
5°	2045.6	2040.8	2036.8	2028.1	2023.2	2017.4	2014.4	2006.6	1999.8	1993.9	1993.0
7.5°	2069.0	2058.3	2051.5	2039.8	2031.0	2024.2	2014.4	2003.7	1995.0	1987.1	1981.3
10°	2078.7	2068.0	2057.3	2042.7	2032.9	2020.3	2010.5	1996.9	1985.2	1974.5	1967.6
12.5°	2079.7	2066.1	2056.3	2039.8	2027.1	2013.4	2002.7	1987.1	1973.5	1962.8	1952.1
15°	2071.0	2058.3	2046.6	2029.0	2016.4	2003.7	1991.1	1974.5	1961.8	1949.1	1941.4
17.5°	2051.5	2039.8	2026.1	2009.6	1997.9	1986.2	1972.5	1958.9	1944.2	1930.6	1920.9
20°	2026.1	2013.4	2001.8	1985.2	1975.5	1962.8	1950.1	1935.5	1923.8	1910.1	1899.4
22.5°	1988.1	1976.4	1965.7	1956.0	1940.4	1930.6	1921.9	1905.3	1893.6	1880.9	1869.2
25°	1933.5	1921.9	1913.1	1901.4	1894.5	1883.8	1875.0	1860.4	1849.7	1838.0	1828.3
27.5°	1843.9	1837.1	1832.2	1825.3	1819.5	1814.6	1809.8	1798.1	1790.3	1779.6	1769.8
30°	1709.4	1708.4	1705.5	1702.6	1706.5	1706.5	1706.5	1704.5	1697.7	1689.9	1683.1
32.5°	1536.9	1538.9	1542.7	1545.7	1553.5	1562.2	1570.0	1573.9	1573.9	1569.1	1566.1
35°	1331.3	1334.2	1340.0	1347.8	1357.6	1368.3	1385.8	1389.8	1392.6	1392.6	1388.7
37.5°	1117.8	1116.9	1122.7	1129.5	1135.4	1143.2	1155.8	1158.8	1163.6	1161.7	1157.8
40°	910.2	905.4	903.4	905.4	912.2	909.3	912.2	910.2	910.2	903.4	903.4
42.5°	718.2	712.4	708.5	705.6	705.6	698.7	693.9	689.0	686.1	681.2	680.3
45°	553.6	546.7	541.9	539.9	537.0	528.2	522.4	516.5	509.7	507.8	508.7
47.5°	429.8	423.0	421.0	416.1	411.2	406.4	402.5	395.7	394.7	390.8	394.7
50°	331.3	329.4	326.5	324.5	321.6	317.7	313.8	309.9	308.0	308.0	308.9
52.5°	257.3	258.3	255.3	252.4	250.5	250.5	245.6	244.6	244.6	240.7	244.6
55°	196.9	195.9	196.9	194.9	194.9	192.0	192.0	189.1	189.1	186.1	188.1
57.5°	144.2	146.2	144.2	145.2	147.2	144.2	143.2	140.3	142.3	140.3	141.3
60°	112.1	112.1	112.1	111.1	111.1	110.1	110.1	109.2	109.2	107.2	109.2
62.5°	82.8	83.8	83.8	83.8	84.8	83.8	82.8	83.8	82.8	82.8	83.8
65°	54.6	55.6	55.6	54.6	56.5	54.6	55.6	56.5	57.5	56.5	57.5
67.5°	37.0	37.0	38.0	39.0	38.0	39.0	40.0	39.0	40.0	41.9	40.0
70°	27.3	28.3	28.3	27.3	26.3	27.3	26.3	29.2	29.2	29.2	31.2
72.5°	17.5	17.5	16.6	16.6	16.6	16.6	16.6	19.5	17.5	16.6	18.5
75°	9.7	10.7	10.7	7.8	8.8	10.7	7.8	8.8	11.7	9.7	11.7
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	7.8	6.8	6.8	6.8	7.8
80°	4.9	3.9	3.9	2.9	3.9	3.9	3.9	5.9	4.9	4.9	5.9
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: P245902

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1993.9	1993.9	1993.0	1991.1	1987.1	1987.1	1986.2	1983.2	1981.3	1980.3	1980.3
5°	1984.2	1980.3	1976.4	1965.7	1965.7	1963.7	1957.9	1954.0	1952.1	1947.2	1945.2
7.5°	1975.5	1963.7	1956.9	1950.1	1941.4	1937.4	1930.6	1927.7	1920.9	1916.0	1913.1
10°	1954.0	1946.2	1937.4	1926.7	1919.9	1912.1	1904.3	1898.5	1889.7	1884.8	1880.9
12.5°	1939.4	1927.7	1919.9	1908.2	1896.5	1889.7	1879.0	1872.2	1863.4	1853.6	1847.8
15°	1925.8	1913.1	1902.4	1889.7	1877.0	1869.2	1856.6	1848.8	1836.1	1826.4	1819.5
17.5°	1905.3	1894.5	1882.9	1867.3	1855.6	1845.8	1832.2	1822.5	1810.7	1798.1	1791.3
20°	1883.8	1871.2	1859.5	1843.9	1832.2	1820.5	1806.9	1796.1	1782.5	1770.8	1763.0
22.5°	1855.6	1841.0	1831.2	1815.6	1802.0	1789.3	1776.6	1764.0	1751.3	1741.5	1732.8
25°	1814.6	1799.0	1788.3	1775.6	1763.0	1753.3	1737.7	1729.9	1717.2	1708.4	1699.6
27.5°	1756.2	1744.5	1734.7	1722.1	1711.3	1703.6	1691.8	1684.1	1673.3	1665.5	1658.7
30°	1670.4	1660.7	1651.9	1639.2	1631.4	1624.6	1613.9	1607.0	1599.3	1590.5	1588.6
32.5°	1555.4	1547.6	1538.9	1530.1	1524.2	1520.3	1511.5	1507.6	1499.9	1495.0	1490.1
35°	1381.9	1375.1	1370.3	1366.4	1364.4	1365.4	1363.4	1367.3	1369.3	1368.3	1369.3
37.5°	1154.9	1151.0	1152.9	1155.8	1165.6	1178.3	1189.9	1207.5	1219.2	1230.9	1241.6
40°	901.5	904.4	912.2	929.7	955.1	983.4	1009.7	1042.8	1075.9	1099.3	1120.7
42.5°	680.3	689.0	708.5	733.8	771.9	813.8	854.7	903.4	943.4	982.4	1009.7
45°	511.7	523.3	548.7	583.8	625.7	674.4	726.1	780.6	828.4	868.3	898.6
47.5°	398.6	409.3	434.7	471.7	523.3	574.0	627.6	684.1	733.8	772.8	799.2
50°	314.8	328.4	350.8	389.8	441.5	495.1	550.6	606.2	653.0	686.1	709.5
52.5°	247.5	260.2	281.6	322.6	375.2	428.8	480.4	535.0	576.0	608.1	623.7
55°	192.0	203.7	226.1	260.2	309.9	362.6	414.2	461.0	499.0	522.4	537.0
57.5°	146.2	155.0	170.6	204.7	249.5	298.2	342.1	388.9	418.1	434.7	444.4
60°	111.1	117.9	134.5	160.8	201.7	243.7	280.7	315.8	339.2	352.8	362.6
62.5°	83.8	91.6	103.3	125.7	156.9	191.0	222.2	248.5	268.0	276.8	283.6
65°	57.5	63.3	72.1	89.7	116.0	140.3	164.7	184.2	196.9	206.6	210.5
67.5°	42.9	46.8	51.7	65.3	83.8	103.3	119.9	133.5	147.2	151.1	157.9
70°	32.2	35.1	40.0	49.7	60.4	74.1	87.7	95.5	105.3	112.1	114.0
72.5°	20.5	21.4	26.3	32.2	40.9	49.7	58.5	65.3	71.2	75.1	77.0
75°	11.7	17.5	17.5	23.4	29.2	33.1	39.0	43.8	46.8	49.7	49.7
77.5°	7.8	10.7	11.7	14.6	17.5	22.4	27.3	30.2	33.1	34.1	34.1
80°	6.8	7.8	7.8	10.7	12.7	16.6	19.5	20.5	22.4	23.4	25.4
82.5°	2.9	3.9	4.9	7.8	8.8	8.8	11.7	12.7	14.6	15.6	15.6
85°	1.0	2.0	2.0	2.9	4.9	5.9	6.8	7.8	8.8	8.8	9.7
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	3.9	3.9	3.9	5.9	5.9
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: P245902

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1978.4	1979.3	1975.5	1974.5	1972.5	1973.5	1975.5
5°	1942.3	1943.3	1939.4	1935.5	1935.5	1934.5	1935.5
7.5°	1908.2	1909.2	1903.3	1901.4	1897.5	1898.5	1898.5
10°	1874.1	1874.1	1865.3	1864.3	1861.4	1860.4	1860.4
12.5°	1841.0	1838.0	1831.2	1827.3	1829.3	1823.4	1823.4
15°	1811.7	1806.9	1798.1	1795.1	1790.3	1788.3	1788.3
17.5°	1781.5	1777.6	1769.8	1764.0	1758.1	1757.2	1758.1
20°	1752.3	1748.4	1738.6	1734.7	1729.9	1729.9	1727.9
22.5°	1723.0	1719.1	1710.4	1707.5	1700.6	1700.6	1701.6
25°	1692.8	1689.9	1680.1	1678.2	1677.2	1673.3	1675.3
27.5°	1651.9	1649.9	1642.1	1639.2	1635.3	1634.4	1636.3
30°	1576.8	1573.9	1568.1	1565.2	1558.3	1559.3	1561.2
32.5°	1483.3	1479.4	1471.6	1468.7	1462.8	1460.9	1461.8
35°	1366.4	1363.4	1356.6	1356.6	1350.8	1348.8	1350.8
37.5°	1247.5	1250.4	1247.5	1250.4	1247.5	1246.5	1247.5
40°	1135.4	1146.1	1148.0	1158.8	1154.9	1160.7	1159.7
42.5°	1028.2	1045.7	1052.6	1061.3	1059.4	1063.3	1066.2
45°	920.0	934.6	941.4	947.3	948.3	950.2	951.2
47.5°	817.6	829.4	830.3	837.1	836.2	836.2	839.1
50°	722.2	730.0	731.9	736.8	732.9	730.9	731.9
52.5°	633.5	641.3	639.3	641.3	636.4	634.4	635.4
55°	542.8	546.7	546.7	546.7	540.9	540.9	540.9
57.5°	450.2	451.2	449.3	450.2	449.3	443.4	442.5
60°	365.5	365.5	364.5	365.5	362.6	359.6	359.6
62.5°	285.5	287.5	291.4	287.5	285.5	287.5	284.6
65°	213.4	217.3	216.3	218.3	217.3	217.3	215.4
67.5°	160.8	161.8	162.7	163.7	163.7	163.7	163.7
70°	117.9	120.9	119.9	119.9	119.9	119.9	125.7
72.5°	78.9	82.8	81.9	83.8	83.8	85.8	83.8
75°	53.6	57.5	55.6	58.5	57.5	55.6	60.4
77.5°	36.1	38.0	39.0	40.0	39.0	38.0	39.0
80°	25.4	27.3	26.3	27.3	27.3	27.3	28.3
82.5°	15.6	18.5	17.5	18.5	17.5	18.5	18.5
85°	10.7	11.7	9.7	11.7	10.7	10.7	12.7
87.5°	6.8	5.9	5.9	6.8	5.9	6.8	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)