

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: P245951

Luminaire Tested: **LD8B50D010 ER8B50927 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245951
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: LD8B50D010 ER8B50927 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3295.1 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

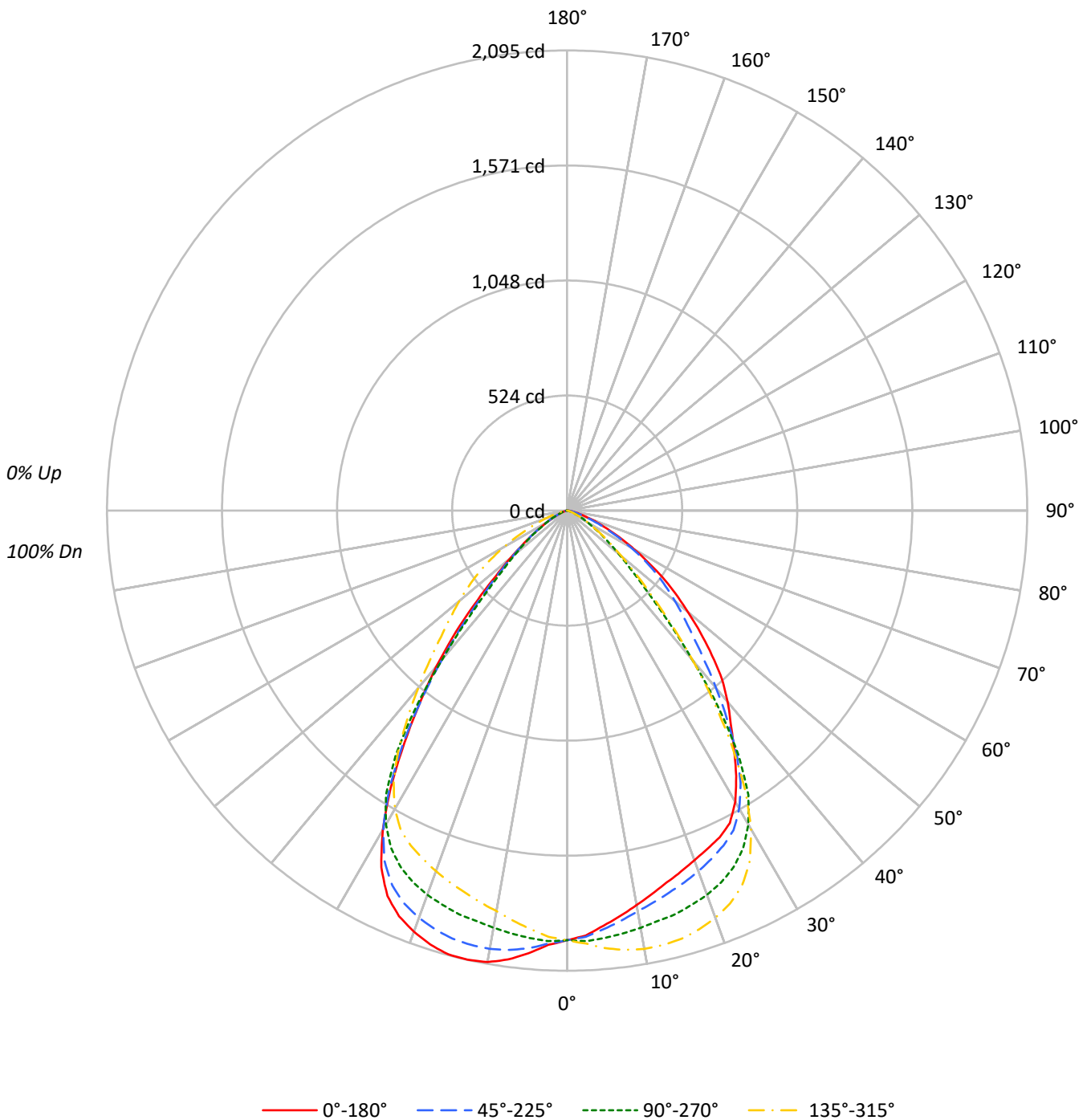
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	5.7
10°-20°	539.2	16.4
20°-30°	816.4	24.8
30°-40°	818.3	24.8
40°-50°	513.8	15.6
50°-60°	273.8	8.3
60°-70°	112.6	3.4
70°-80°	29.7	0.9
80°-90°	5.0	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°	1541.8	46.8
0°-40°	2360.1	71.6
0°-60°	3147.7	95.5
0°-90°	3295.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3295.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1956	1956	1956	1956	1956	
5°	1897	1953	2023	1953	1897	179
15°	1753	1903	2092	1903	1753	496
25°	1642	1792	1936	1792	1642	753
35°	1324	1361	1291	1361	1324	829
45°	932	499	577	499	932	717
55°	530	184	195	184	530	473
65°	211	56	52	56	211	219
75°	59	12	10	12	59	67
85°	12	0	1	0	12	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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1936.1	1934.2	1933.3	1935.2	1936.1	1940.0	1939.0	1941.0	1941.0	1941.9	1943.8
5°	1897.0	1896.0	1897.0	1897.0	1900.8	1904.6	1903.7	1906.5	1908.4	1913.3	1915.1
7.5°	1860.8	1860.8	1859.7	1863.6	1865.5	1871.2	1870.2	1875.0	1877.8	1882.7	1889.3
10°	1823.4	1823.4	1824.4	1827.2	1828.2	1836.8	1836.8	1843.5	1847.2	1852.1	1860.8
12.5°	1787.2	1787.2	1792.9	1791.0	1794.8	1801.5	1804.4	1811.0	1816.8	1826.3	1834.9
15°	1752.8	1752.8	1754.7	1759.4	1762.3	1770.9	1775.7	1783.4	1790.0	1799.6	1812.0
17.5°	1723.2	1722.2	1723.2	1728.9	1734.6	1742.3	1746.1	1755.7	1762.3	1774.7	1786.2
20°	1693.6	1695.5	1695.5	1700.2	1704.0	1713.6	1717.4	1727.9	1735.5	1747.0	1760.4
22.5°	1667.7	1666.8	1666.8	1673.4	1676.4	1684.9	1688.7	1698.3	1707.0	1716.4	1728.9
25°	1641.9	1640.0	1643.8	1644.9	1646.7	1656.2	1659.2	1665.8	1674.4	1683.0	1695.5
27.5°	1603.7	1601.9	1602.8	1606.6	1609.5	1617.1	1619.0	1625.7	1632.4	1640.0	1650.6
30°	1530.2	1528.3	1527.3	1534.0	1536.9	1542.6	1545.5	1557.0	1558.8	1567.5	1575.1
32.5°	1432.8	1431.8	1433.7	1439.4	1442.4	1450.0	1453.8	1460.5	1465.2	1470.0	1477.7
35°	1323.9	1322.0	1323.9	1329.6	1329.6	1336.3	1339.2	1342.0	1341.1	1342.0	1340.1
37.5°	1222.6	1221.6	1222.6	1225.5	1222.6	1225.5	1222.6	1216.9	1206.4	1195.0	1183.5
40°	1136.7	1137.6	1131.9	1135.7	1125.2	1123.3	1112.9	1098.4	1077.4	1054.6	1022.1
42.5°	1045.0	1042.1	1038.3	1040.2	1031.6	1024.9	1007.7	989.6	962.8	924.6	885.5
45°	932.3	931.3	929.4	928.5	922.7	916.0	901.7	880.6	851.1	811.9	765.1
47.5°	822.4	819.6	819.6	820.5	813.8	812.8	801.3	783.2	757.5	719.2	670.5
50°	717.3	716.4	718.3	722.1	717.3	715.4	707.8	695.4	672.4	640.0	594.1
52.5°	622.8	621.8	623.7	628.5	626.6	628.5	620.9	611.3	596.0	564.5	524.4
55°	530.1	530.1	530.1	535.8	535.8	535.8	532.0	526.3	512.0	489.0	451.8
57.5°	433.7	434.6	440.3	441.3	440.3	442.2	441.3	435.5	426.0	409.8	381.2
60°	352.5	352.5	355.4	358.2	357.2	358.2	358.2	355.4	345.8	332.4	309.5
62.5°	278.9	281.8	279.9	281.8	285.6	281.8	279.9	278.0	271.2	262.7	243.6
65°	211.0	213.0	213.0	214.0	212.1	213.0	209.2	206.3	202.5	192.9	180.6
67.5°	160.5	160.5	160.5	160.5	159.5	158.5	157.6	154.8	148.0	144.2	130.8
70°	123.2	117.4	117.4	117.4	117.4	118.5	115.5	111.8	109.8	103.2	93.6
72.5°	82.1	84.0	82.1	82.1	80.2	81.2	77.4	75.5	73.6	69.8	64.0
75°	59.2	54.4	56.4	57.4	54.4	56.4	52.5	48.7	48.7	45.8	43.0
77.5°	38.2	37.2	38.2	39.2	38.2	37.2	35.3	33.4	33.4	32.5	29.6
80°	27.7	26.8	26.8	26.8	25.8	26.8	24.9	24.9	23.0	21.9	20.0
82.5°	18.1	18.1	17.2	18.1	17.2	18.1	15.3	15.3	15.3	14.3	12.4
85°	12.4	10.5	10.5	11.5	9.6	11.5	10.5	9.6	8.7	8.7	7.6
87.5°	5.7	6.6	5.7	6.6	5.7	5.7	6.6	5.7	5.7	3.8	3.8
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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1946.7	1947.6	1947.6	1951.4	1953.3	1954.2	1954.2	1962.0	1959.1	1961.0	1962.9
5°	1919.0	1924.6	1926.6	1926.6	1937.1	1941.0	1944.7	1953.3	1954.2	1960.0	1966.7
7.5°	1892.2	1898.9	1902.7	1911.3	1918.0	1924.6	1936.1	1941.9	1947.6	1955.2	1963.8
10°	1866.4	1874.0	1881.7	1888.4	1898.9	1907.6	1915.1	1928.5	1935.2	1945.7	1957.2
12.5°	1841.6	1852.1	1858.8	1870.2	1881.7	1889.3	1900.8	1913.3	1923.8	1934.2	1947.6
15°	1819.6	1832.1	1839.7	1852.1	1864.6	1875.0	1887.4	1902.7	1910.4	1922.7	1935.2
17.5°	1795.7	1809.1	1818.7	1830.2	1845.4	1856.8	1867.4	1882.7	1892.2	1905.5	1919.9
20°	1770.9	1784.2	1795.7	1807.2	1822.5	1834.0	1846.4	1861.6	1872.1	1885.5	1897.0
22.5°	1741.3	1753.8	1766.1	1779.5	1794.8	1804.4	1818.7	1832.1	1843.5	1855.9	1867.4
25°	1703.1	1718.4	1727.9	1740.4	1752.8	1763.2	1778.5	1791.9	1801.5	1812.9	1823.4
27.5°	1658.2	1669.7	1677.3	1687.8	1700.2	1709.8	1721.2	1734.6	1744.2	1754.7	1762.3
30°	1581.8	1592.3	1599.0	1606.6	1619.0	1627.6	1637.2	1649.6	1656.2	1664.0	1670.6
32.5°	1481.5	1490.1	1493.9	1499.6	1508.3	1516.8	1524.5	1535.0	1537.9	1542.6	1542.6
35°	1336.3	1338.2	1337.3	1339.2	1343.0	1347.8	1354.4	1361.1	1365.0	1365.0	1362.1
37.5°	1166.3	1154.8	1142.4	1132.9	1130.0	1128.0	1131.9	1134.8	1138.6	1140.5	1135.7
40°	989.6	963.8	936.1	911.2	894.0	886.4	883.6	885.5	885.5	892.1	892.1
42.5°	837.7	797.5	756.6	719.2	694.4	675.3	666.7	666.7	667.7	672.4	675.3
45°	711.7	660.9	613.2	572.2	537.8	512.9	501.5	498.6	497.7	499.5	506.2
47.5°	615.2	562.6	512.9	462.3	426.0	401.2	390.7	386.8	383.1	386.8	387.8
50°	539.7	485.2	432.7	382.0	343.9	321.9	308.5	302.7	301.8	301.8	303.8
52.5°	470.9	420.3	367.8	316.1	276.1	255.0	242.7	239.7	235.9	239.7	239.7
55°	405.9	355.4	303.8	255.0	221.6	199.7	188.2	184.4	182.5	185.3	185.3
57.5°	335.2	292.3	244.6	200.6	167.2	151.9	143.2	138.5	137.5	139.5	137.5
60°	275.1	238.8	197.8	157.6	131.8	115.5	108.9	107.0	105.1	107.0	107.0
62.5°	217.8	187.2	153.8	123.2	101.2	89.8	82.1	82.1	81.2	81.2	82.1
65°	161.4	137.5	113.6	87.9	70.6	62.1	56.4	56.4	55.4	56.4	55.4
67.5°	117.4	101.2	82.1	64.0	50.6	45.8	42.1	39.2	41.1	39.2	38.2
70°	86.0	72.6	59.2	48.7	39.2	34.4	31.5	30.6	28.7	28.7	28.7
72.5°	57.4	48.7	40.1	31.5	25.8	21.0	20.0	18.1	16.2	17.2	19.1
75°	38.2	32.5	28.7	23.0	17.2	17.2	11.5	11.5	9.6	11.5	8.7
77.5°	26.8	21.9	17.2	14.3	11.5	10.5	7.6	7.6	6.6	6.6	6.6
80°	19.1	16.2	12.4	10.5	7.6	7.6	6.6	5.7	4.7	4.7	5.7
82.5°	11.5	8.7	8.7	7.6	4.7	3.8	2.9	3.8	1.9	1.9	1.9
85°	6.6	5.7	4.7	2.9	1.9	1.9	0.9	0.0	0.9	0.9	0.0
87.5°	3.8	1.9	1.9	0.9	0.0	0.9	0.9	0.0	0.0	0.0	1.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1967.7	1966.7	1968.6	1968.6	1974.4	1973.4	1976.3	1976.3	1974.4	1975.3	1979.1
5°	1974.4	1977.3	1982.9	1987.8	1996.3	2000.1	2005.0	2009.7	2010.7	2013.5	2016.4
7.5°	1974.4	1983.9	1990.6	1999.2	2010.7	2017.4	2027.8	2036.5	2040.3	2045.0	2050.8
10°	1970.6	1980.1	1992.5	2002.0	2016.4	2026.9	2037.4	2050.8	2056.5	2064.2	2071.8
12.5°	1962.9	1973.4	1986.8	1999.2	2015.4	2025.0	2038.4	2050.8	2059.4	2069.9	2078.4
15°	1951.4	1963.8	1976.3	1988.7	2005.9	2017.4	2029.7	2044.1	2052.7	2064.2	2071.8
17.5°	1933.3	1946.7	1958.2	1969.5	1985.8	1999.2	2010.7	2024.0	2032.6	2042.2	2052.7
20°	1911.3	1923.8	1936.1	1945.7	1962.0	1973.4	1985.8	1998.2	2005.0	2006.9	2023.1
22.5°	1883.6	1892.2	1901.8	1917.0	1926.6	1937.1	1948.6	1960.0	1966.7	1977.3	1982.9
25°	1837.8	1846.4	1856.8	1863.6	1875.0	1883.6	1895.1	1907.6	1911.3	1919.0	1924.6
27.5°	1773.8	1778.5	1783.4	1789.1	1795.7	1800.6	1807.2	1812.9	1816.8	1820.6	1824.4
30°	1672.5	1672.5	1672.5	1668.7	1671.5	1674.4	1675.4	1674.4	1674.4	1673.4	1673.4
32.5°	1538.8	1531.1	1522.6	1514.9	1512.1	1508.3	1506.3	1503.4	1498.7	1495.8	1496.8
35°	1358.2	1341.1	1330.5	1321.0	1313.4	1307.7	1304.8	1302.0	1301.0	1297.1	1293.3
37.5°	1132.9	1120.4	1112.9	1107.1	1100.4	1094.6	1095.6	1096.5	1099.4	1097.6	1098.4
40°	894.0	891.2	894.0	887.4	885.5	887.4	892.1	898.9	902.7	906.5	913.2
42.5°	680.1	684.9	691.5	691.5	694.4	698.3	703.9	714.5	720.2	726.9	734.5
45°	512.0	517.7	526.3	529.2	531.1	535.8	542.6	551.1	555.0	560.7	567.3
47.5°	394.5	398.4	403.1	407.8	412.6	414.6	421.2	421.2	426.0	429.9	431.8
50°	307.6	311.4	315.2	318.0	320.0	322.9	324.8	327.6	328.6	330.5	331.4
52.5°	240.6	245.5	245.5	247.4	250.2	253.1	252.2	253.1	254.0	254.0	257.0
55°	188.2	188.2	191.0	191.0	192.9	191.9	192.9	192.9	192.9	192.9	194.0
57.5°	140.4	141.4	144.2	142.3	141.4	143.2	141.4	143.2	142.3	144.2	141.4
60°	107.9	107.9	108.9	108.9	109.8	109.8	109.8	108.9	108.9	107.9	107.9
62.5°	81.2	82.1	83.1	82.1	82.1	82.1	81.2	81.2	80.2	79.3	79.3
65°	54.4	53.6	55.4	53.6	54.4	54.4	53.6	54.4	51.6	52.5	51.6
67.5°	39.2	38.2	37.2	38.2	37.2	36.3	36.3	37.2	38.2	35.3	35.3
70°	25.8	26.8	25.8	26.8	27.7	27.7	26.8	25.8	26.8	24.9	25.8
72.5°	16.2	16.2	16.2	16.2	16.2	17.2	17.2	17.2	15.3	15.3	14.3
75°	7.6	10.5	8.7	7.6	10.5	10.5	9.6	9.6	8.7	8.7	8.7
77.5°	7.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	4.7	5.7	4.7
80°	3.8	3.8	3.8	2.9	3.8	3.8	4.7	3.8	3.8	2.9	4.7
82.5°	1.9	1.9	1.9	0.0	0.9	1.9	1.9	0.9	1.9	1.9	0.9
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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1978.2	1977.3	1978.2	1979.1	1978.2	1977.3	1978.2	1979.1	1975.3	1974.4	1976.3
5°	2020.2	2020.2	2022.1	2023.1	2022.1	2020.2	2020.2	2016.4	2013.5	2010.7	2009.7
7.5°	2056.5	2058.4	2060.3	2061.2	2060.3	2058.4	2056.5	2050.8	2045.0	2040.3	2036.5
10°	2078.4	2081.4	2085.2	2087.1	2085.2	2081.4	2078.4	2071.8	2064.2	2056.5	2050.8
12.5°	2088.0	2090.9	2095.6	2094.8	2095.6	2090.9	2088.0	2078.4	2069.9	2059.4	2050.8
15°	2081.4	2085.2	2089.9	2091.8	2089.9	2085.2	2081.4	2071.8	2064.2	2052.7	2044.1
17.5°	2060.3	2066.1	2068.9	2071.8	2068.9	2066.1	2060.3	2052.7	2042.2	2032.6	2024.0
20°	2031.6	2035.5	2039.3	2040.3	2039.3	2035.5	2031.6	2023.1	2006.9	2005.0	1998.2
22.5°	1990.6	1993.5	2002.0	1999.2	2002.0	1993.5	1990.6	1982.9	1977.3	1966.7	1960.0
25°	1931.4	1934.2	1935.2	1936.1	1935.2	1934.2	1931.4	1924.6	1919.0	1911.3	1907.6
27.5°	1829.1	1829.1	1831.0	1832.1	1831.0	1829.1	1829.1	1824.4	1820.6	1816.8	1812.9
30°	1674.4	1674.4	1674.4	1679.2	1674.4	1674.4	1674.4	1673.4	1673.4	1674.4	1674.4
32.5°	1495.8	1493.9	1492.0	1493.9	1492.0	1493.9	1495.8	1496.8	1495.8	1498.7	1503.4
35°	1293.3	1292.4	1295.2	1291.4	1295.2	1292.4	1293.3	1293.3	1297.1	1301.0	1302.0
37.5°	1099.4	1097.6	1101.4	1097.6	1101.4	1097.6	1099.4	1098.4	1097.6	1099.4	1096.5
40°	915.1	917.0	917.0	924.6	917.0	917.0	915.1	913.2	906.5	902.7	898.9
42.5°	738.3	744.1	742.2	747.9	742.2	744.1	738.3	734.5	726.9	720.2	714.5
45°	571.2	575.0	575.0	576.9	575.0	575.0	571.2	567.3	560.7	555.0	551.1
47.5°	438.4	438.4	438.4	439.4	438.4	438.4	438.4	431.8	429.9	426.0	421.2
50°	333.3	334.3	335.2	336.3	335.2	334.3	333.3	331.4	330.5	328.6	327.6
52.5°	255.9	257.0	255.0	257.0	255.0	257.0	255.9	257.0	254.0	254.0	253.1
55°	194.0	192.9	194.0	194.8	194.0	192.9	194.0	194.0	192.9	192.9	192.9
57.5°	142.3	140.4	140.4	140.4	140.4	140.4	142.3	141.4	144.2	142.3	143.2
60°	106.1	107.0	107.0	107.9	107.0	107.0	106.1	107.9	107.9	108.9	108.9
62.5°	78.3	81.2	79.3	81.2	79.3	81.2	78.3	79.3	79.3	80.2	81.2
65°	50.6	50.6	50.6	51.6	50.6	50.6	50.6	51.6	52.5	51.6	54.4
67.5°	34.4	35.3	37.2	36.3	37.2	35.3	34.4	35.3	35.3	38.2	37.2
70°	27.7	24.9	24.9	27.7	24.9	24.9	27.7	25.8	24.9	26.8	25.8
72.5°	16.2	14.3	16.2	16.2	16.2	14.3	16.2	14.3	15.3	15.3	17.2
75°	8.7	7.6	6.6	9.6	6.6	7.6	8.7	8.7	8.7	8.7	9.6
77.5°	5.7	4.7	6.6	6.6	6.6	4.7	5.7	4.7	5.7	4.7	5.7
80°	2.9	3.8	2.9	4.7	2.9	3.8	2.9	4.7	2.9	3.8	3.8
82.5°	0.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	1.9	1.9	0.9
85°	0.0	1.9	0.9	0.9	0.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.9	0.0	0.0	0.9	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: P245951

CATALOG NUMBER: LD8B50D010 ER8B50927 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1976.3	1973.4	1974.4	1968.6	1968.6	1966.7	1967.7	1962.9	1961.0	1959.1	1962.0
5°	2005.0	2000.1	1996.3	1987.8	1982.9	1977.3	1974.4	1966.7	1960.0	1954.2	1953.3
7.5°	2027.8	2017.4	2010.7	1999.2	1990.6	1983.9	1974.4	1963.8	1955.2	1947.6	1941.9
10°	2037.4	2026.9	2016.4	2002.0	1992.5	1980.1	1970.6	1957.2	1945.7	1935.2	1928.5
12.5°	2038.4	2025.0	2015.4	1999.2	1986.8	1973.4	1962.9	1947.6	1934.2	1923.8	1913.3
15°	2029.7	2017.4	2005.9	1988.7	1976.3	1963.8	1951.4	1935.2	1922.7	1910.4	1902.7
17.5°	2010.7	1999.2	1985.8	1969.5	1958.2	1946.7	1933.3	1919.9	1905.5	1892.2	1882.7
20°	1985.8	1973.4	1962.0	1945.7	1936.1	1923.8	1911.3	1897.0	1885.5	1872.1	1861.6
22.5°	1948.6	1937.1	1926.6	1917.0	1901.8	1892.2	1883.6	1867.4	1855.9	1843.5	1832.1
25°	1895.1	1883.6	1875.0	1863.6	1856.8	1846.4	1837.8	1823.4	1812.9	1801.5	1791.9
27.5°	1807.2	1800.6	1795.7	1789.1	1783.4	1778.5	1773.8	1762.3	1754.7	1744.2	1734.6
30°	1675.4	1674.4	1671.5	1668.7	1672.5	1672.5	1672.5	1670.6	1664.0	1656.2	1649.6
32.5°	1506.3	1508.3	1512.1	1514.9	1522.6	1531.1	1538.8	1542.6	1542.6	1537.9	1535.0
35°	1304.8	1307.7	1313.4	1321.0	1330.5	1341.1	1358.2	1362.1	1365.0	1365.0	1361.1
37.5°	1095.6	1094.6	1100.4	1107.1	1112.9	1120.4	1132.9	1135.7	1140.5	1138.6	1134.8
40°	892.1	887.4	885.5	887.4	894.0	891.2	894.0	892.1	892.1	885.5	885.5
42.5°	703.9	698.3	694.4	691.5	691.5	684.9	680.1	675.3	672.4	667.7	666.7
45°	542.6	535.8	531.1	529.2	526.3	517.7	512.0	506.2	499.5	497.7	498.6
47.5°	421.2	414.6	412.6	407.8	403.1	398.4	394.5	387.8	386.8	383.1	386.8
50°	324.8	322.9	320.0	318.0	315.2	311.4	307.6	303.8	301.8	301.8	302.7
52.5°	252.2	253.1	250.2	247.4	245.5	245.5	240.6	239.7	239.7	235.9	239.7
55°	192.9	191.9	192.9	191.0	191.0	188.2	188.2	185.3	185.3	182.5	184.4
57.5°	141.4	143.2	141.4	142.3	144.2	141.4	140.4	137.5	139.5	137.5	138.5
60°	109.8	109.8	109.8	108.9	108.9	107.9	107.9	107.0	107.0	105.1	107.0
62.5°	81.2	82.1	82.1	82.1	83.1	82.1	81.2	82.1	81.2	81.2	82.1
65°	53.6	54.4	54.4	53.6	55.4	53.6	54.4	55.4	56.4	55.4	56.4
67.5°	36.3	36.3	37.2	38.2	37.2	38.2	39.2	38.2	39.2	41.1	39.2
70°	26.8	27.7	27.7	26.8	25.8	26.8	25.8	28.7	28.7	28.7	30.6
72.5°	17.2	17.2	16.2	16.2	16.2	16.2	16.2	19.1	17.2	16.2	18.1
75°	9.6	10.5	10.5	7.6	8.7	10.5	7.6	8.7	11.5	9.6	11.5
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	7.6	6.6	6.6	6.6	7.6
80°	4.7	3.8	3.8	2.9	3.8	3.8	3.8	5.7	4.7	4.7	5.7
82.5°	1.9	1.9	0.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1954.2	1954.2	1953.3	1951.4	1947.6	1947.6	1946.7	1943.8	1941.9	1941.0	1941.0
5°	1944.7	1941.0	1937.1	1926.6	1926.6	1924.6	1919.0	1915.1	1913.3	1908.4	1906.5
7.5°	1936.1	1924.6	1918.0	1911.3	1902.7	1898.9	1892.2	1889.3	1882.7	1877.8	1875.0
10°	1915.1	1907.6	1898.9	1888.4	1881.7	1874.0	1866.4	1860.8	1852.1	1847.2	1843.5
12.5°	1900.8	1889.3	1881.7	1870.2	1858.8	1852.1	1841.6	1834.9	1826.3	1816.8	1811.0
15°	1887.4	1875.0	1864.6	1852.1	1839.7	1832.1	1819.6	1812.0	1799.6	1790.0	1783.4
17.5°	1867.4	1856.8	1845.4	1830.2	1818.7	1809.1	1795.7	1786.2	1774.7	1762.3	1755.7
20°	1846.4	1834.0	1822.5	1807.2	1795.7	1784.2	1770.9	1760.4	1747.0	1735.5	1727.9
22.5°	1818.7	1804.4	1794.8	1779.5	1766.1	1753.8	1741.3	1728.9	1716.4	1707.0	1698.3
25°	1778.5	1763.2	1752.8	1740.4	1727.9	1718.4	1703.1	1695.5	1683.0	1674.4	1665.8
27.5°	1721.2	1709.8	1700.2	1687.8	1677.3	1669.7	1658.2	1650.6	1640.0	1632.4	1625.7
30°	1637.2	1627.6	1619.0	1606.6	1599.0	1592.3	1581.8	1575.1	1567.5	1558.8	1557.0
32.5°	1524.5	1516.8	1508.3	1499.6	1493.9	1490.1	1481.5	1477.7	1470.0	1465.2	1460.5
35°	1354.4	1347.8	1343.0	1339.2	1337.3	1338.2	1336.3	1340.1	1342.0	1341.1	1342.0
37.5°	1131.9	1128.0	1130.0	1132.9	1142.4	1154.8	1166.3	1183.5	1195.0	1206.4	1216.9
40°	883.6	886.4	894.0	911.2	936.1	963.8	989.6	1022.1	1054.6	1077.4	1098.4
42.5°	666.7	675.3	694.4	719.2	756.6	797.5	837.7	885.5	924.6	962.8	989.6
45°	501.5	512.9	537.8	572.2	613.2	660.9	711.7	765.1	811.9	851.1	880.6
47.5°	390.7	401.2	426.0	462.3	512.9	562.6	615.2	670.5	719.2	757.5	783.2
50°	308.5	321.9	343.9	382.0	432.7	485.2	539.7	594.1	640.0	672.4	695.4
52.5°	242.7	255.0	276.1	316.1	367.8	420.3	470.9	524.4	564.5	596.0	611.3
55°	188.2	199.7	221.6	255.0	303.8	355.4	405.9	451.8	489.0	512.0	526.3
57.5°	143.2	151.9	167.2	200.6	244.6	292.3	335.2	381.2	409.8	426.0	435.5
60°	108.9	115.5	131.8	157.6	197.8	238.8	275.1	309.5	332.4	345.8	355.4
62.5°	82.1	89.8	101.2	123.2	153.8	187.2	217.8	243.6	262.7	271.2	278.0
65°	56.4	62.1	70.6	87.9	113.6	137.5	161.4	180.6	192.9	202.5	206.3
67.5°	42.1	45.8	50.6	64.0	82.1	101.2	117.4	130.8	144.2	148.0	154.8
70°	31.5	34.4	39.2	48.7	59.2	72.6	86.0	93.6	103.2	109.8	111.8
72.5°	20.0	21.0	25.8	31.5	40.1	48.7	57.4	64.0	69.8	73.6	75.5
75°	11.5	17.2	17.2	23.0	28.7	32.5	38.2	43.0	45.8	48.7	48.7
77.5°	7.6	10.5	11.5	14.3	17.2	21.9	26.8	29.6	32.5	33.4	33.4
80°	6.6	7.6	7.6	10.5	12.4	16.2	19.1	20.0	21.9	23.0	24.9
82.5°	2.9	3.8	4.7	7.6	8.7	8.7	11.5	12.4	14.3	15.3	15.3
85°	0.9	1.9	1.9	2.9	4.7	5.7	6.6	7.6	8.7	8.7	9.6
87.5°	0.9	0.9	0.0	0.9	1.9	1.9	3.8	3.8	3.8	5.7	5.7
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1939.0	1940.0	1936.1	1935.2	1933.3	1934.2	1936.1
5°	1903.7	1904.6	1900.8	1897.0	1897.0	1896.0	1897.0
7.5°	1870.2	1871.2	1865.5	1863.6	1859.7	1860.8	1860.8
10°	1836.8	1836.8	1828.2	1827.2	1824.4	1823.4	1823.4
12.5°	1804.4	1801.5	1794.8	1791.0	1792.9	1787.2	1787.2
15°	1775.7	1770.9	1762.3	1759.4	1754.7	1752.8	1752.8
17.5°	1746.1	1742.3	1734.6	1728.9	1723.2	1722.2	1723.2
20°	1717.4	1713.6	1704.0	1700.2	1695.5	1695.5	1693.6
22.5°	1688.7	1684.9	1676.4	1673.4	1666.8	1666.8	1667.7
25°	1659.2	1656.2	1646.7	1644.9	1643.8	1640.0	1641.9
27.5°	1619.0	1617.1	1609.5	1606.6	1602.8	1601.9	1603.7
30°	1545.5	1542.6	1536.9	1534.0	1527.3	1528.3	1530.2
32.5°	1453.8	1450.0	1442.4	1439.4	1433.7	1431.8	1432.8
35°	1339.2	1336.3	1329.6	1329.6	1323.9	1322.0	1323.9
37.5°	1222.6	1225.5	1222.6	1225.5	1222.6	1221.6	1222.6
40°	1112.9	1123.3	1125.2	1135.7	1131.9	1137.6	1136.7
42.5°	1007.7	1024.9	1031.6	1040.2	1038.3	1042.1	1045.0
45°	901.7	916.0	922.7	928.5	929.4	931.3	932.3
47.5°	801.3	812.8	813.8	820.5	819.6	819.6	822.4
50°	707.8	715.4	717.3	722.1	718.3	716.4	717.3
52.5°	620.9	628.5	626.6	628.5	623.7	621.8	622.8
55°	532.0	535.8	535.8	535.8	530.1	530.1	530.1
57.5°	441.3	442.2	440.3	441.3	440.3	434.6	433.7
60°	358.2	358.2	357.2	358.2	355.4	352.5	352.5
62.5°	279.9	281.8	285.6	281.8	279.9	281.8	278.9
65°	209.2	213.0	212.1	214.0	213.0	213.0	211.0
67.5°	157.6	158.5	159.5	160.5	160.5	160.5	160.5
70°	115.5	118.5	117.4	117.4	117.4	117.4	123.2
72.5°	77.4	81.2	80.2	82.1	82.1	84.0	82.1
75°	52.5	56.4	54.4	57.4	56.4	54.4	59.2
77.5°	35.3	37.2	38.2	39.2	38.2	37.2	38.2
80°	24.9	26.8	25.8	26.8	26.8	26.8	27.7
82.5°	15.3	18.1	17.2	18.1	17.2	18.1	18.1
85°	10.5	11.5	9.6	11.5	10.5	10.5	12.4
87.5°	6.6	5.7	5.7	6.6	5.7	6.6	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)