

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: P246028

Luminaire Tested: **LD8B40D010 ER8B409730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246028
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 ER8B409730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.0 lumens
Efficiency: N/A
Efficacy: 78.4 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

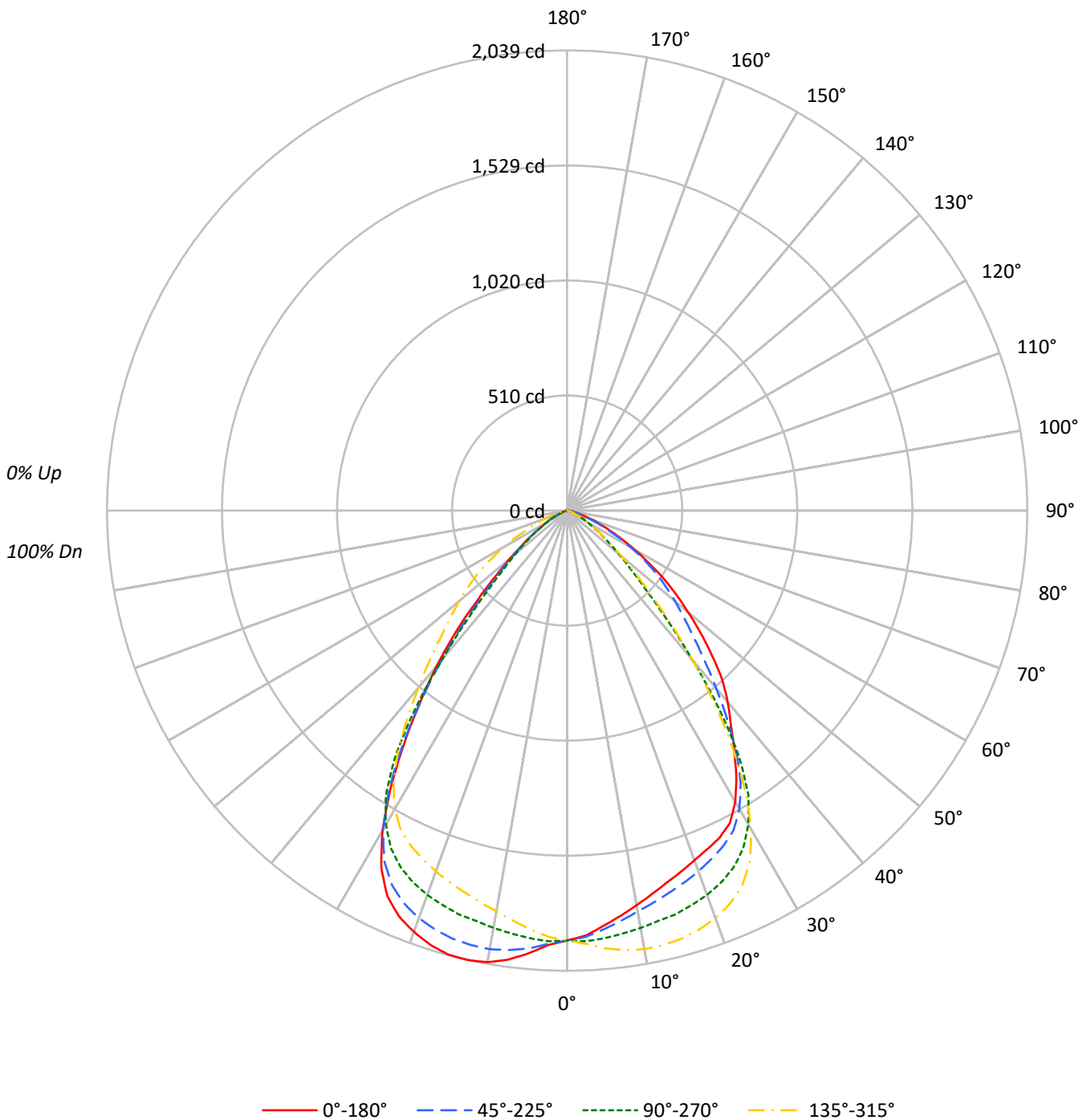
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	181.3	5.7
10°-20°	524.9	16.4
20°-30°	794.9	24.8
30°-40°	796.6	24.8
40°-50°	500.2	15.6
50°-60°	266.6	8.3
60°-70°	109.6	3.4
70°-80°	29.0	0.9
80°-90°	4.9	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°	1501.1	46.8
0°-40°	2297.7	71.6
0°-60°	3064.5	95.5
0°-90°	3208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1904	1904	1904	1904	1904	
5°	1847	1902	1970	1902	1847	174
15°	1706	1852	2036	1852	1706	483
25°	1598	1744	1885	1744	1598	733
35°	1289	1325	1257	1325	1289	807
45°	908	485	562	485	908	698
55°	516	180	190	180	516	460
65°	206	55	50	55	206	213
75°	58	11	9	11	58	65
85°	12	0	1	0	12	13
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°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1885.0	1883.1	1882.2	1884.0	1885.0	1888.7	1887.8	1889.6	1889.6	1890.6	1892.4
5°	1846.8	1845.9	1846.8	1846.8	1850.6	1854.3	1853.4	1856.1	1858.0	1862.7	1864.5
7.5°	1811.5	1811.5	1810.6	1814.3	1816.1	1821.7	1820.8	1825.4	1828.2	1832.9	1839.4
10°	1775.2	1775.2	1776.1	1778.9	1779.9	1788.2	1788.2	1794.7	1798.5	1803.1	1811.5
12.5°	1739.9	1739.9	1745.5	1743.6	1747.3	1753.8	1756.6	1763.1	1768.7	1778.0	1786.4
15°	1706.4	1706.4	1708.3	1712.9	1715.7	1724.1	1728.7	1736.2	1742.7	1752.0	1764.1
17.5°	1677.6	1676.7	1677.6	1683.2	1688.8	1696.2	1699.9	1709.2	1715.7	1727.8	1739.0
20°	1648.8	1650.6	1650.6	1655.3	1659.0	1668.3	1672.0	1682.3	1689.7	1700.8	1713.9
22.5°	1623.7	1622.7	1622.7	1629.2	1632.0	1640.4	1644.1	1653.4	1661.8	1671.1	1683.2
25°	1598.5	1596.7	1600.4	1601.3	1603.2	1612.5	1615.3	1621.8	1630.2	1638.5	1650.6
27.5°	1561.3	1559.5	1560.4	1564.1	1566.9	1574.4	1576.2	1582.7	1589.2	1596.7	1606.9
30°	1489.7	1487.9	1487.0	1493.5	1496.3	1501.8	1504.6	1515.8	1517.6	1526.0	1533.4
32.5°	1394.9	1394.0	1395.8	1401.4	1404.2	1411.6	1415.4	1421.9	1426.5	1431.2	1438.6
35°	1288.9	1287.0	1288.9	1294.5	1294.5	1301.0	1303.8	1306.5	1305.6	1306.5	1304.7
37.5°	1190.3	1189.4	1190.3	1193.1	1190.3	1193.1	1190.3	1184.7	1174.5	1163.3	1152.2
40°	1106.6	1107.5	1102.0	1105.7	1095.4	1093.6	1083.4	1069.4	1049.0	1026.7	995.0
42.5°	1017.4	1014.6	1010.8	1012.7	1004.3	997.8	981.1	963.4	937.4	900.2	862.0
45°	907.6	906.7	904.8	903.9	898.3	891.8	877.8	857.4	828.6	790.4	744.9
47.5°	800.7	797.9	797.9	798.8	792.3	791.4	780.2	762.5	737.4	700.2	652.8
50°	698.4	697.4	699.3	703.0	698.4	696.5	689.1	677.0	654.7	623.1	578.4
52.5°	606.3	605.4	607.3	611.9	610.0	611.9	604.5	595.2	580.3	549.6	510.5
55°	516.1	516.1	516.1	521.7	521.7	521.7	518.0	512.4	498.4	476.1	439.9
57.5°	422.2	423.1	428.7	429.6	428.7	430.6	429.6	424.0	414.8	399.0	371.1
60°	343.1	343.1	345.9	348.7	347.8	348.7	348.7	345.9	336.6	323.6	301.3
62.5°	271.5	274.3	272.5	274.3	278.0	274.3	272.5	270.6	264.1	255.7	237.1
65°	205.5	207.4	207.4	208.3	206.4	207.4	203.7	200.9	197.2	187.9	175.8
67.5°	156.2	156.2	156.2	156.2	155.3	154.4	153.5	150.7	144.1	140.4	127.4
70°	120.0	114.4	114.4	114.4	114.4	115.3	112.5	108.8	106.9	100.4	91.1
72.5°	80.0	81.8	80.0	80.0	78.1	79.0	75.3	73.5	71.6	67.9	62.3
75°	57.6	53.0	54.9	55.8	53.0	54.9	51.1	47.4	47.4	44.6	41.8
77.5°	37.2	36.3	37.2	38.1	37.2	36.3	34.4	32.5	32.5	31.6	28.8
80°	27.0	26.0	26.0	26.0	25.1	26.0	24.2	24.2	22.3	21.4	19.5
82.5°	17.7	17.7	16.7	17.7	16.7	17.7	14.9	14.9	14.9	13.9	12.1
85°	12.1	10.2	10.2	11.2	9.3	11.2	10.2	9.3	8.4	8.4	7.4
87.5°	5.6	6.5	5.6	6.5	5.6	5.6	6.5	5.6	5.6	3.7	3.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1895.2	1896.1	1896.1	1899.9	1901.7	1902.6	1902.6	1910.1	1907.3	1909.2	1911.0
5°	1868.2	1873.8	1875.7	1875.7	1885.9	1889.6	1893.3	1901.7	1902.6	1908.2	1914.7
7.5°	1842.2	1848.7	1852.4	1860.8	1867.3	1873.8	1885.0	1890.6	1896.1	1903.6	1911.9
10°	1817.1	1824.5	1832.0	1838.5	1848.7	1857.1	1864.5	1877.5	1884.0	1894.3	1905.4
12.5°	1792.9	1803.1	1809.6	1820.8	1832.0	1839.4	1850.6	1862.7	1872.9	1883.1	1896.1
15°	1771.5	1783.6	1791.0	1803.1	1815.2	1825.4	1837.5	1852.4	1859.9	1872.0	1884.0
17.5°	1748.2	1761.3	1770.6	1781.7	1796.6	1807.8	1818.0	1832.9	1842.2	1855.2	1869.2
20°	1724.1	1737.1	1748.2	1759.4	1774.3	1785.4	1797.5	1812.4	1822.7	1835.7	1846.8
22.5°	1695.3	1707.4	1719.4	1732.4	1747.3	1756.6	1770.6	1783.6	1794.7	1806.8	1818.0
25°	1658.1	1673.0	1682.3	1694.3	1706.4	1716.6	1731.5	1744.5	1753.8	1765.0	1775.2
27.5°	1614.4	1625.5	1633.0	1643.2	1655.3	1664.6	1675.7	1688.8	1698.1	1708.3	1715.7
30°	1539.9	1550.2	1556.7	1564.1	1576.2	1584.6	1593.9	1606.0	1612.5	1619.9	1626.4
32.5°	1442.3	1450.7	1454.4	1460.0	1468.4	1476.7	1484.2	1494.4	1497.2	1501.8	1501.8
35°	1301.0	1302.8	1301.9	1303.8	1307.5	1312.1	1318.6	1325.1	1328.8	1328.8	1326.1
37.5°	1135.4	1124.3	1112.2	1102.9	1100.1	1098.2	1102.0	1104.7	1108.5	1110.3	1105.7
40°	963.4	938.3	911.3	887.1	870.4	863.0	860.2	862.0	862.0	868.5	868.5
42.5°	815.6	776.5	736.5	700.2	676.0	657.5	649.1	649.1	650.0	654.7	657.5
45°	692.8	643.5	597.0	557.0	523.5	499.4	488.2	485.4	484.5	486.3	492.8
47.5°	598.9	547.7	499.4	450.1	414.8	390.6	380.4	376.6	372.9	376.6	377.6
50°	525.4	472.4	421.3	372.0	334.8	313.4	300.4	294.8	293.8	293.8	295.7
52.5°	458.4	409.2	358.0	307.8	268.7	248.3	236.2	233.4	229.7	233.4	233.4
55°	395.2	345.9	295.7	248.3	215.7	194.4	183.2	179.5	177.6	180.4	180.4
57.5°	326.4	284.5	238.1	195.3	162.8	147.9	139.5	134.8	133.9	135.8	133.9
60°	267.8	232.5	192.5	153.5	128.3	112.5	106.0	104.2	102.3	104.2	104.2
62.5°	212.0	182.3	149.7	120.0	98.6	87.4	80.0	80.0	79.0	79.0	80.0
65°	157.2	133.9	110.7	85.5	68.8	60.4	54.9	54.9	53.9	54.9	53.9
67.5°	114.4	98.6	80.0	62.3	49.3	44.6	40.9	38.1	40.0	38.1	37.2
70°	83.7	70.7	57.6	47.4	38.1	33.5	30.7	29.7	27.9	27.9	27.9
72.5°	55.8	47.4	39.0	30.7	25.1	20.4	19.5	17.7	15.8	16.7	18.6
75°	37.2	31.6	27.9	22.3	16.7	16.7	11.2	11.2	9.3	11.2	8.4
77.5°	26.0	21.4	16.7	13.9	11.2	10.2	7.4	7.4	6.5	6.5	6.5
80°	18.6	15.8	12.1	10.2	7.4	7.4	6.5	5.6	4.6	4.6	5.6
82.5°	11.2	8.4	8.4	7.4	4.6	3.7	2.8	3.7	1.9	1.9	1.9
85°	6.5	5.6	4.6	2.8	1.9	1.9	0.9	0.0	0.9	0.9	0.0
87.5°	3.7	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°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1915.7	1914.7	1916.6	1916.6	1922.2	1921.2	1924.0	1924.0	1922.2	1923.1	1926.8
5°	1922.2	1925.0	1930.5	1935.2	1943.5	1947.3	1951.9	1956.6	1957.5	1960.3	1963.1
7.5°	1922.2	1931.5	1938.0	1946.3	1957.5	1964.0	1974.2	1982.6	1986.3	1991.0	1996.5
10°	1918.4	1927.7	1939.8	1949.1	1963.1	1973.3	1983.5	1996.5	2002.1	2009.6	2017.0
12.5°	1911.0	1921.2	1934.2	1946.3	1962.1	1971.4	1984.4	1996.5	2004.9	2015.1	2023.5
15°	1899.9	1911.9	1924.0	1936.1	1952.8	1964.0	1976.1	1990.0	1998.4	2009.6	2017.0
17.5°	1882.2	1895.2	1906.4	1917.5	1933.3	1946.3	1957.5	1970.5	1978.9	1988.2	1998.4
20°	1860.8	1872.9	1885.0	1894.3	1910.1	1921.2	1933.3	1945.4	1951.9	1953.8	1969.6
22.5°	1833.8	1842.2	1851.5	1866.4	1875.7	1885.9	1897.1	1908.2	1914.7	1925.0	1930.5
25°	1789.2	1797.5	1807.8	1814.3	1825.4	1833.8	1845.0	1857.1	1860.8	1868.2	1873.8
27.5°	1726.9	1731.5	1736.2	1741.7	1748.2	1752.9	1759.4	1765.0	1768.7	1772.4	1776.1
30°	1628.3	1628.3	1628.3	1624.6	1627.4	1630.2	1631.1	1630.2	1630.2	1629.2	1629.2
32.5°	1498.1	1490.7	1482.3	1474.9	1472.1	1468.4	1466.5	1463.7	1459.1	1456.3	1457.2
35°	1322.3	1305.6	1295.4	1286.1	1278.7	1273.1	1270.3	1267.5	1266.6	1262.9	1259.1
37.5°	1102.9	1090.8	1083.4	1077.8	1071.3	1065.7	1066.6	1067.6	1070.3	1068.5	1069.4
40°	870.4	867.6	870.4	863.9	862.0	863.9	868.5	875.1	878.8	882.5	889.0
42.5°	662.1	666.7	673.3	673.3	676.0	679.8	685.3	695.6	701.1	707.7	715.1
45°	498.4	504.0	512.4	515.2	517.0	521.7	528.2	536.6	540.3	545.9	552.4
47.5°	384.1	387.8	392.4	397.1	401.7	403.6	410.1	410.1	414.8	418.5	420.3
50°	299.4	303.2	306.9	309.7	311.5	314.3	316.2	319.0	319.9	321.8	322.7
52.5°	234.3	239.0	239.0	240.8	243.6	246.4	245.5	246.4	247.3	247.3	250.1
55°	183.2	183.2	186.0	186.0	187.9	186.9	187.9	187.9	187.9	187.9	188.8
57.5°	136.7	137.6	140.4	138.6	137.6	139.5	137.6	139.5	138.6	140.4	137.6
60°	105.1	105.1	106.0	106.0	106.9	106.9	106.9	106.0	106.0	105.1	105.1
62.5°	79.0	80.0	80.9	80.0	80.0	80.0	79.0	79.0	78.1	77.2	77.2
65°	53.0	52.1	53.9	52.1	53.0	53.0	52.1	53.0	50.2	51.1	50.2
67.5°	38.1	37.2	36.3	37.2	36.3	35.3	35.3	36.3	37.2	34.4	34.4
70°	25.1	26.0	25.1	26.0	27.0	27.0	26.0	25.1	26.0	24.2	25.1
72.5°	15.8	15.8	15.8	15.8	15.8	16.7	16.7	16.7	14.9	14.9	13.9
75°	7.4	10.2	8.4	7.4	10.2	10.2	9.3	9.3	8.4	8.4	8.4
77.5°	7.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	5.6	4.6
80°	3.7	3.7	3.7	2.8	3.7	3.7	4.6	3.7	3.7	2.8	4.6
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



TEST NUMBER: P246028

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1925.9	1925.0	1925.9	1926.8	1925.9	1925.0	1925.9	1926.8	1923.1	1922.2	1924.0
5°	1966.8	1966.8	1968.6	1969.6	1968.6	1966.8	1966.8	1963.1	1960.3	1957.5	1956.6
7.5°	2002.1	2004.0	2005.8	2006.8	2005.8	2004.0	2002.1	1996.5	1991.0	1986.3	1982.6
10°	2023.5	2026.3	2030.0	2031.9	2030.0	2026.3	2023.5	2017.0	2009.6	2002.1	1996.5
12.5°	2032.8	2035.6	2040.3	2039.3	2040.3	2035.6	2032.8	2023.5	2015.1	2004.9	1996.5
15°	2026.3	2030.0	2034.7	2036.5	2034.7	2030.0	2026.3	2017.0	2009.6	1998.4	1990.0
17.5°	2005.8	2011.4	2014.2	2017.0	2014.2	2011.4	2005.8	1998.4	1988.2	1978.9	1970.5
20°	1977.9	1981.7	1985.4	1986.3	1985.4	1981.7	1977.9	1969.6	1953.8	1951.9	1945.4
22.5°	1938.0	1940.8	1949.1	1946.3	1949.1	1940.8	1938.0	1930.5	1925.0	1914.7	1908.2
25°	1880.3	1883.1	1884.0	1885.0	1884.0	1883.1	1880.3	1873.8	1868.2	1860.8	1857.1
27.5°	1780.8	1780.8	1782.7	1783.6	1782.7	1780.8	1780.8	1776.1	1772.4	1768.7	1765.0
30°	1630.2	1630.2	1630.2	1634.8	1630.2	1630.2	1630.2	1629.2	1629.2	1630.2	1630.2
32.5°	1456.3	1454.4	1452.6	1454.4	1452.6	1454.4	1456.3	1457.2	1456.3	1459.1	1463.7
35°	1259.1	1258.2	1261.0	1257.3	1261.0	1258.2	1259.1	1259.1	1262.9	1266.6	1267.5
37.5°	1070.3	1068.5	1072.2	1068.5	1072.2	1068.5	1070.3	1069.4	1068.5	1070.3	1067.6
40°	890.9	892.7	892.7	900.2	892.7	892.7	890.9	889.0	882.5	878.8	875.1
42.5°	718.8	724.4	722.5	728.1	722.5	724.4	718.8	715.1	707.7	701.1	695.6
45°	556.1	559.8	559.8	561.7	559.8	559.8	556.1	552.4	545.9	540.3	536.6
47.5°	426.8	426.8	426.8	427.8	426.8	426.8	426.8	420.3	418.5	414.8	410.1
50°	324.5	325.5	326.4	327.3	326.4	325.5	324.5	322.7	321.8	319.9	319.0
52.5°	249.2	250.1	248.3	250.1	248.3	250.1	249.2	250.1	247.3	247.3	246.4
55°	188.8	187.9	188.8	189.7	188.8	187.9	188.8	188.8	187.9	187.9	187.9
57.5°	138.6	136.7	136.7	136.7	136.7	136.7	138.6	137.6	140.4	138.6	139.5
60°	103.2	104.2	104.2	105.1	104.2	104.2	103.2	105.1	105.1	106.0	106.0
62.5°	76.2	79.0	77.2	79.0	77.2	79.0	76.2	77.2	77.2	78.1	79.0
65°	49.3	49.3	49.3	50.2	49.3	49.3	49.3	50.2	51.1	50.2	53.0
67.5°	33.5	34.4	36.3	35.3	36.3	34.4	33.5	34.4	34.4	37.2	36.3
70°	27.0	24.2	24.2	27.0	24.2	24.2	27.0	25.1	24.2	26.0	25.1
72.5°	15.8	13.9	15.8	15.8	15.8	13.9	15.8	13.9	14.9	14.9	16.7
75°	8.4	7.4	6.5	9.3	6.5	7.4	8.4	8.4	8.4	8.4	9.3
77.5°	5.6	4.6	6.5	6.5	6.5	4.6	5.6	4.6	5.6	4.6	5.6
80°	2.8	3.7	2.8	4.6	2.8	3.7	2.8	4.6	2.8	3.7	3.7
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: P246028

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1924.0	1921.2	1922.2	1916.6	1916.6	1914.7	1915.7	1911.0	1909.2	1907.3	1910.1
5°	1951.9	1947.3	1943.5	1935.2	1930.5	1925.0	1922.2	1914.7	1908.2	1902.6	1901.7
7.5°	1974.2	1964.0	1957.5	1946.3	1938.0	1931.5	1922.2	1911.9	1903.6	1896.1	1890.6
10°	1983.5	1973.3	1963.1	1949.1	1939.8	1927.7	1918.4	1905.4	1894.3	1884.0	1877.5
12.5°	1984.4	1971.4	1962.1	1946.3	1934.2	1921.2	1911.0	1896.1	1883.1	1872.9	1862.7
15°	1976.1	1964.0	1952.8	1936.1	1924.0	1911.9	1899.9	1884.0	1872.0	1859.9	1852.4
17.5°	1957.5	1946.3	1933.3	1917.5	1906.4	1895.2	1882.2	1869.2	1855.2	1842.2	1832.9
20°	1933.3	1921.2	1910.1	1894.3	1885.0	1872.9	1860.8	1846.8	1835.7	1822.7	1812.4
22.5°	1897.1	1885.9	1875.7	1866.4	1851.5	1842.2	1833.8	1818.0	1806.8	1794.7	1783.6
25°	1845.0	1833.8	1825.4	1814.3	1807.8	1797.5	1789.2	1775.2	1765.0	1753.8	1744.5
27.5°	1759.4	1752.9	1748.2	1741.7	1736.2	1731.5	1726.9	1715.7	1708.3	1698.1	1688.8
30°	1631.1	1630.2	1627.4	1624.6	1628.3	1628.3	1628.3	1626.4	1619.9	1612.5	1606.0
32.5°	1466.5	1468.4	1472.1	1474.9	1482.3	1490.7	1498.1	1501.8	1501.8	1497.2	1494.4
35°	1270.3	1273.1	1278.7	1286.1	1295.4	1305.6	1322.3	1326.1	1328.8	1328.8	1325.1
37.5°	1066.6	1065.7	1071.3	1077.8	1083.4	1090.8	1102.9	1105.7	1110.3	1108.5	1104.7
40°	868.5	863.9	862.0	863.9	870.4	867.6	870.4	868.5	868.5	862.0	862.0
42.5°	685.3	679.8	676.0	673.3	673.3	666.7	662.1	657.5	654.7	650.0	649.1
45°	528.2	521.7	517.0	515.2	512.4	504.0	498.4	492.8	486.3	484.5	485.4
47.5°	410.1	403.6	401.7	397.1	392.4	387.8	384.1	377.6	376.6	372.9	376.6
50°	316.2	314.3	311.5	309.7	306.9	303.2	299.4	295.7	293.8	293.8	294.8
52.5°	245.5	246.4	243.6	240.8	239.0	239.0	234.3	233.4	233.4	229.7	233.4
55°	187.9	186.9	187.9	186.0	186.0	183.2	183.2	180.4	180.4	177.6	179.5
57.5°	137.6	139.5	137.6	138.6	140.4	137.6	136.7	133.9	135.8	133.9	134.8
60°	106.9	106.9	106.9	106.0	106.0	105.1	105.1	104.2	104.2	102.3	104.2
62.5°	79.0	80.0	80.0	80.0	80.9	80.0	79.0	80.0	79.0	79.0	80.0
65°	52.1	53.0	53.0	52.1	53.9	52.1	53.0	53.9	54.9	53.9	54.9
67.5°	35.3	35.3	36.3	37.2	36.3	37.2	38.1	37.2	38.1	40.0	38.1
70°	26.0	27.0	27.0	26.0	25.1	26.0	25.1	27.9	27.9	27.9	29.7
72.5°	16.7	16.7	15.8	15.8	15.8	15.8	15.8	18.6	16.7	15.8	17.7
75°	9.3	10.2	10.2	7.4	8.4	10.2	7.4	8.4	11.2	9.3	11.2
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	7.4	6.5	6.5	6.5	7.4
80°	4.6	3.7	3.7	2.8	3.7	3.7	3.7	5.6	4.6	4.6	5.6
82.5°	1.9	1.9	0.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.7
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



TEST NUMBER: P246028

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1902.6	1902.6	1901.7	1899.9	1896.1	1896.1	1895.2	1892.4	1890.6	1889.6	1889.6
5°	1893.3	1889.6	1885.9	1875.7	1875.7	1873.8	1868.2	1864.5	1862.7	1858.0	1856.1
7.5°	1885.0	1873.8	1867.3	1860.8	1852.4	1848.7	1842.2	1839.4	1832.9	1828.2	1825.4
10°	1864.5	1857.1	1848.7	1838.5	1832.0	1824.5	1817.1	1811.5	1803.1	1798.5	1794.7
12.5°	1850.6	1839.4	1832.0	1820.8	1809.6	1803.1	1792.9	1786.4	1778.0	1768.7	1763.1
15°	1837.5	1825.4	1815.2	1803.1	1791.0	1783.6	1771.5	1764.1	1752.0	1742.7	1736.2
17.5°	1818.0	1807.8	1796.6	1781.7	1770.6	1761.3	1748.2	1739.0	1727.8	1715.7	1709.2
20°	1797.5	1785.4	1774.3	1759.4	1748.2	1737.1	1724.1	1713.9	1700.8	1689.7	1682.3
22.5°	1770.6	1756.6	1747.3	1732.4	1719.4	1707.4	1695.3	1683.2	1671.1	1661.8	1653.4
25°	1731.5	1716.6	1706.4	1694.3	1682.3	1673.0	1658.1	1650.6	1638.5	1630.2	1621.8
27.5°	1675.7	1664.6	1655.3	1643.2	1633.0	1625.5	1614.4	1606.9	1596.7	1589.2	1582.7
30°	1593.9	1584.6	1576.2	1564.1	1556.7	1550.2	1539.9	1533.4	1526.0	1517.6	1515.8
32.5°	1484.2	1476.7	1468.4	1460.0	1454.4	1450.7	1442.3	1438.6	1431.2	1426.5	1421.9
35°	1318.6	1312.1	1307.5	1303.8	1301.9	1302.8	1301.0	1304.7	1306.5	1305.6	1306.5
37.5°	1102.0	1098.2	1100.1	1102.9	1112.2	1124.3	1135.4	1152.2	1163.3	1174.5	1184.7
40°	860.2	863.0	870.4	887.1	911.3	938.3	963.4	995.0	1026.7	1049.0	1069.4
42.5°	649.1	657.5	676.0	700.2	736.5	776.5	815.6	862.0	900.2	937.4	963.4
45°	488.2	499.4	523.5	557.0	597.0	643.5	692.8	744.9	790.4	828.6	857.4
47.5°	380.4	390.6	414.8	450.1	499.4	547.7	598.9	652.8	700.2	737.4	762.5
50°	300.4	313.4	334.8	372.0	421.3	472.4	525.4	578.4	623.1	654.7	677.0
52.5°	236.2	248.3	268.7	307.8	358.0	409.2	458.4	510.5	549.6	580.3	595.2
55°	183.2	194.4	215.7	248.3	295.7	345.9	395.2	439.9	476.1	498.4	512.4
57.5°	139.5	147.9	162.8	195.3	238.1	284.5	326.4	371.1	399.0	414.8	424.0
60°	106.0	112.5	128.3	153.5	192.5	232.5	267.8	301.3	323.6	336.6	345.9
62.5°	80.0	87.4	98.6	120.0	149.7	182.3	212.0	237.1	255.7	264.1	270.6
65°	54.9	60.4	68.8	85.5	110.7	133.9	157.2	175.8	187.9	197.2	200.9
67.5°	40.9	44.6	49.3	62.3	80.0	98.6	114.4	127.4	140.4	144.1	150.7
70°	30.7	33.5	38.1	47.4	57.6	70.7	83.7	91.1	100.4	106.9	108.8
72.5°	19.5	20.4	25.1	30.7	39.0	47.4	55.8	62.3	67.9	71.6	73.5
75°	11.2	16.7	16.7	22.3	27.9	31.6	37.2	41.8	44.6	47.4	47.4
77.5°	7.4	10.2	11.2	13.9	16.7	21.4	26.0	28.8	31.6	32.5	32.5
80°	6.5	7.4	7.4	10.2	12.1	15.8	18.6	19.5	21.4	22.3	24.2
82.5°	2.8	3.7	4.6	7.4	8.4	8.4	11.2	12.1	13.9	14.9	14.9
85°	0.9	1.9	1.9	2.8	4.6	5.6	6.5	7.4	8.4	8.4	9.3
87.5°	0.9	0.9	0.0	0.9	1.9	1.9	3.7	3.7	3.7	5.6	5.6
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: P246028

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1887.8	1888.7	1885.0	1884.0	1882.2	1883.1	1885.0
5°	1853.4	1854.3	1850.6	1846.8	1846.8	1845.9	1846.8
7.5°	1820.8	1821.7	1816.1	1814.3	1810.6	1811.5	1811.5
10°	1788.2	1788.2	1779.9	1778.9	1776.1	1775.2	1775.2
12.5°	1756.6	1753.8	1747.3	1743.6	1745.5	1739.9	1739.9
15°	1728.7	1724.1	1715.7	1712.9	1708.3	1706.4	1706.4
17.5°	1699.9	1696.2	1688.8	1683.2	1677.6	1676.7	1677.6
20°	1672.0	1668.3	1659.0	1655.3	1650.6	1650.6	1648.8
22.5°	1644.1	1640.4	1632.0	1629.2	1622.7	1622.7	1623.7
25°	1615.3	1612.5	1603.2	1601.3	1600.4	1596.7	1598.5
27.5°	1576.2	1574.4	1566.9	1564.1	1560.4	1559.5	1561.3
30°	1504.6	1501.8	1496.3	1493.5	1487.0	1487.9	1489.7
32.5°	1415.4	1411.6	1404.2	1401.4	1395.8	1394.0	1394.9
35°	1303.8	1301.0	1294.5	1294.5	1288.9	1287.0	1288.9
37.5°	1190.3	1193.1	1190.3	1193.1	1190.3	1189.4	1190.3
40°	1083.4	1093.6	1095.4	1105.7	1102.0	1107.5	1106.6
42.5°	981.1	997.8	1004.3	1012.7	1010.8	1014.6	1017.4
45°	877.8	891.8	898.3	903.9	904.8	906.7	907.6
47.5°	780.2	791.4	792.3	798.8	797.9	797.9	800.7
50°	689.1	696.5	698.4	703.0	699.3	697.4	698.4
52.5°	604.5	611.9	610.0	611.9	607.3	605.4	606.3
55°	518.0	521.7	521.7	521.7	516.1	516.1	516.1
57.5°	429.6	430.6	428.7	429.6	428.7	423.1	422.2
60°	348.7	348.7	347.8	348.7	345.9	343.1	343.1
62.5°	272.5	274.3	278.0	274.3	272.5	274.3	271.5
65°	203.7	207.4	206.4	208.3	207.4	207.4	205.5
67.5°	153.5	154.4	155.3	156.2	156.2	156.2	156.2
70°	112.5	115.3	114.4	114.4	114.4	114.4	120.0
72.5°	75.3	79.0	78.1	80.0	80.0	81.8	80.0
75°	51.1	54.9	53.0	55.8	54.9	53.0	57.6
77.5°	34.4	36.3	37.2	38.1	37.2	36.3	37.2
80°	24.2	26.0	25.1	26.0	26.0	26.0	27.0
82.5°	14.9	17.7	16.7	17.7	16.7	17.7	17.7
85°	10.2	11.2	9.3	11.2	10.2	10.2	12.1
87.5°	6.5	5.6	5.6	6.5	5.6	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)