

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: P246022

Luminaire Tested: **LD8B40D010 ER8B40927 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246022  
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 ER8B40927 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3411.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

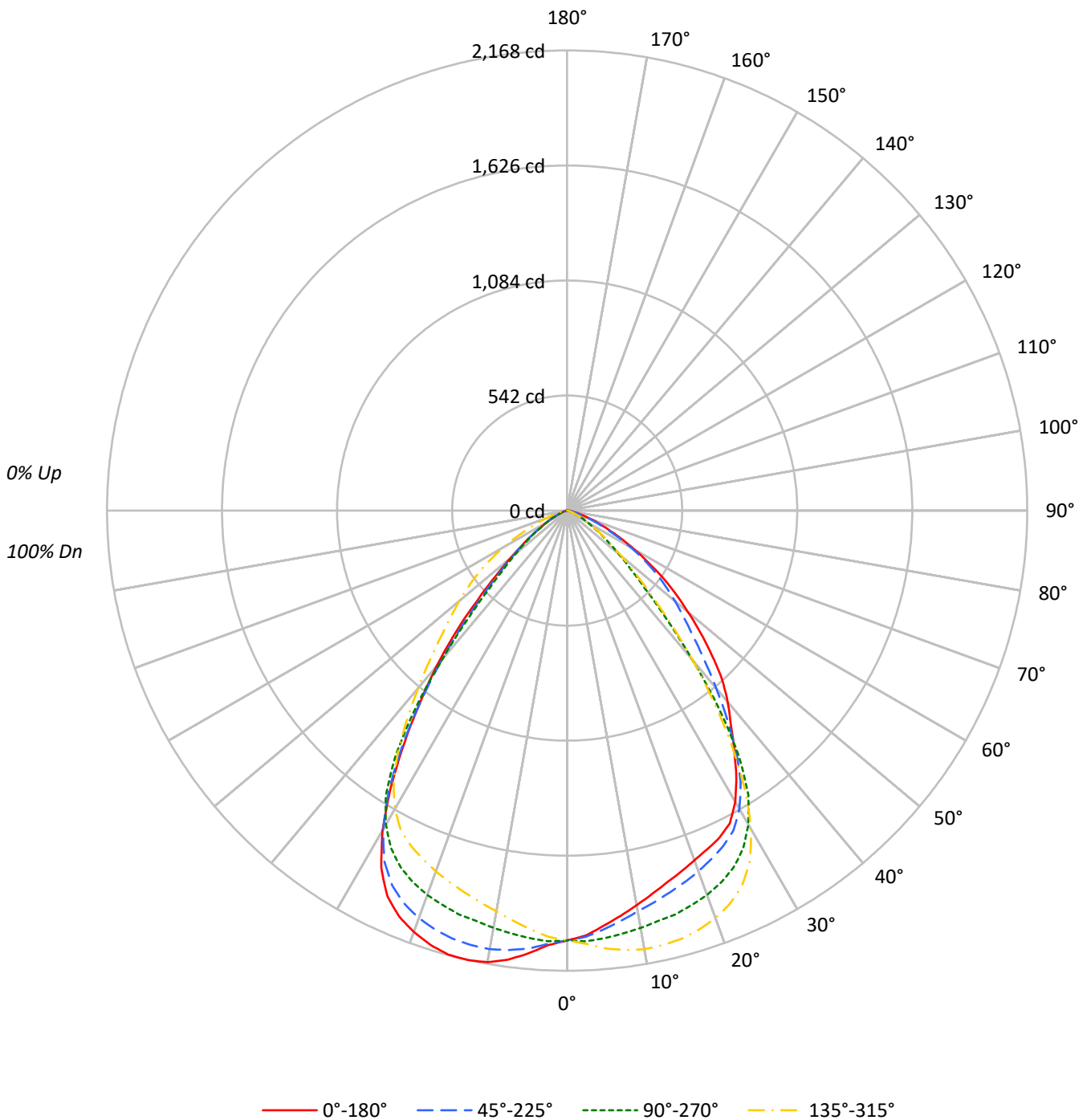
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	192.7	5.7
10°-20°	558.1	16.4
20°-30°	845.2	24.8
30°-40°	847.0	24.8
40°-50°	531.9	15.6
50°-60°	283.5	8.3
60°-70°	116.6	3.4
70°-80°	30.8	0.9
80°-90°	5.2	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°	1596.0	46.8
0°-40°	2443.1	71.6
0°-60°	3258.4	95.5
0°-90°	3411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3411.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2025	2025	2025	2025	2025	
5°	1964	2022	2094	2022	1964	185
15°	1814	1970	2165	1970	1814	513
25°	1700	1855	2004	1855	1700	780
35°	1370	1409	1337	1409	1370	859
45°	965	516	597	516	965	742
55°	549	191	202	191	549	489
65°	218	58	53	58	218	227
75°	61	12	10	12	61	69
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°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2004.3	2002.3	2001.3	2003.3	2004.3	2008.2	2007.2	2009.1	2009.1	2010.2	2012.2
5°	1963.7	1962.7	1963.7	1963.7	1967.6	1971.6	1970.7	1973.6	1975.5	1980.6	1982.5
7.5°	1926.1	1926.1	1925.1	1929.0	1931.1	1937.0	1936.0	1941.0	1943.9	1948.8	1955.8
10°	1887.5	1887.5	1888.5	1891.5	1892.5	1901.4	1901.4	1908.3	1912.3	1917.2	1926.1
12.5°	1850.0	1850.0	1855.9	1854.0	1857.9	1864.8	1867.8	1874.7	1880.7	1890.6	1899.4
15°	1814.4	1814.4	1816.4	1821.3	1824.3	1833.2	1838.1	1846.0	1853.0	1862.9	1875.7
17.5°	1783.7	1782.8	1783.7	1789.6	1795.6	1803.5	1807.4	1817.3	1824.3	1837.1	1849.0
20°	1753.1	1755.1	1755.1	1760.1	1764.0	1773.9	1777.8	1788.8	1796.6	1808.4	1822.3
22.5°	1726.4	1725.4	1725.4	1732.4	1735.3	1744.2	1748.1	1758.0	1766.9	1776.8	1789.6
25°	1699.6	1697.7	1701.7	1702.7	1704.6	1714.5	1717.5	1724.4	1733.3	1742.2	1755.1
27.5°	1660.2	1658.1	1659.2	1663.1	1666.1	1674.0	1676.0	1682.9	1689.9	1697.7	1708.6
30°	1584.0	1582.1	1581.1	1587.9	1591.0	1596.8	1599.9	1611.7	1613.7	1622.6	1630.5
32.5°	1483.1	1482.2	1484.2	1490.1	1493.0	1501.0	1504.9	1511.9	1516.7	1521.7	1529.7
35°	1370.5	1368.4	1370.5	1376.4	1376.4	1383.3	1386.2	1389.3	1388.2	1389.3	1387.2
37.5°	1265.6	1264.6	1265.6	1268.6	1265.6	1268.6	1265.6	1259.7	1248.9	1236.9	1225.1
40°	1176.6	1177.6	1171.7	1175.6	1164.7	1162.8	1151.9	1137.0	1115.3	1091.6	1058.0
42.5°	1081.7	1078.8	1074.8	1076.7	1067.9	1061.0	1043.1	1024.4	996.6	957.2	916.5
45°	965.0	964.1	962.1	961.1	955.1	948.3	933.4	911.7	881.0	840.5	792.0
47.5°	851.3	848.4	848.4	849.4	842.4	841.5	829.6	810.8	784.1	744.5	694.1
50°	742.5	741.6	743.5	747.6	742.5	740.6	732.7	719.9	696.2	662.5	615.0
52.5°	644.6	643.7	645.6	650.6	648.6	650.6	642.7	632.8	616.9	584.3	542.8
55°	548.8	548.8	548.8	554.7	554.7	554.7	550.7	544.8	530.0	506.2	467.7
57.5°	448.9	449.9	455.8	456.8	455.8	457.9	456.8	450.9	441.0	424.2	394.5
60°	364.8	364.8	367.9	370.8	369.8	370.8	370.8	367.9	358.0	344.1	320.4
62.5°	288.7	291.7	289.7	291.7	295.7	291.7	289.7	287.8	280.8	271.9	252.1
65°	218.5	220.5	220.5	221.5	219.5	220.5	216.6	213.6	209.6	199.8	186.9
67.5°	166.2	166.2	166.2	166.2	165.2	164.1	163.1	160.2	153.2	149.3	135.5
70°	127.6	121.6	121.6	121.6	121.6	122.6	119.7	115.8	113.7	106.8	96.9
72.5°	85.0	87.0	85.0	85.0	83.0	84.0	80.1	78.1	76.2	72.2	66.3
75°	61.3	56.4	58.3	59.3	56.4	58.3	54.3	50.4	50.4	47.5	44.4
77.5°	39.6	38.6	39.6	40.5	39.6	38.6	36.6	34.6	34.6	33.6	30.6
80°	28.7	27.7	27.7	27.7	26.7	27.7	25.8	25.8	23.7	22.7	20.8
82.5°	18.8	18.8	17.8	18.8	17.8	18.8	15.9	15.9	15.9	14.8	12.8
85°	12.8	10.9	10.9	11.9	9.9	11.9	10.9	9.9	8.9	8.9	7.9
87.5°	6.0	7.0	6.0	7.0	6.0	6.0	7.0	6.0	6.0	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°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2015.1	2016.1	2016.1	2020.0	2022.1	2023.0	2023.0	2031.0	2027.9	2030.0	2032.0
5°	1986.4	1992.4	1994.4	1994.4	2005.2	2009.1	2013.1	2022.1	2023.0	2028.9	2035.9
7.5°	1958.7	1965.7	1969.6	1978.5	1985.4	1992.4	2004.3	2010.2	2016.1	2024.0	2032.9
10°	1932.1	1940.0	1947.8	1954.8	1965.7	1974.6	1982.5	1996.3	2003.3	2014.1	2026.0
12.5°	1906.3	1917.2	1924.2	1936.0	1947.8	1955.8	1967.6	1980.6	1991.4	2002.3	2016.1
15°	1883.6	1896.5	1904.4	1917.2	1930.0	1941.0	1953.8	1969.6	1977.5	1990.5	2003.3
17.5°	1858.8	1872.8	1882.7	1894.5	1910.4	1922.2	1933.1	1948.8	1958.7	1972.6	1987.4
20°	1833.2	1847.0	1858.8	1870.8	1886.6	1898.4	1911.3	1927.1	1938.0	1951.9	1963.7
22.5°	1802.6	1815.4	1828.2	1842.1	1857.9	1867.8	1882.7	1896.5	1908.3	1921.2	1933.1
25°	1763.0	1778.8	1788.8	1801.6	1814.4	1825.2	1841.1	1854.9	1864.8	1876.7	1887.5
27.5°	1716.5	1728.3	1736.3	1747.1	1760.1	1769.8	1781.8	1795.6	1805.5	1816.4	1824.3
30°	1637.4	1648.4	1655.2	1663.1	1676.0	1684.9	1694.8	1707.6	1714.5	1722.5	1729.4
32.5°	1533.6	1542.5	1546.4	1552.4	1561.3	1570.2	1578.0	1589.0	1591.9	1596.8	1596.8
35°	1383.3	1385.2	1384.3	1386.2	1390.3	1395.1	1402.1	1409.0	1412.9	1412.9	1410.0
37.5°	1207.2	1195.4	1182.6	1172.7	1169.8	1167.8	1171.7	1174.6	1178.7	1180.6	1175.6
40°	1024.4	997.6	969.0	943.3	925.5	917.6	914.6	916.5	916.5	923.5	923.5
42.5°	867.2	825.6	783.1	744.5	718.9	699.1	690.2	690.2	691.2	696.2	699.1
45°	736.6	684.2	634.7	592.3	556.6	531.0	519.1	516.2	515.1	517.2	524.0
47.5°	636.8	582.4	531.0	478.6	441.0	415.2	404.4	400.4	396.4	400.4	401.4
50°	558.7	502.3	448.0	395.6	356.0	333.2	319.4	313.4	312.4	312.4	314.4
52.5°	487.5	435.0	380.7	327.3	285.8	264.0	251.1	248.2	244.2	248.2	248.2
55°	420.2	367.9	314.4	264.0	229.4	206.7	194.7	190.8	188.9	191.8	191.8
57.5°	347.1	302.5	253.1	207.7	173.0	157.3	148.3	143.4	142.3	144.3	142.3
60°	284.7	247.2	204.6	163.1	136.5	119.7	112.7	110.7	108.8	110.7	110.7
62.5°	225.4	193.8	159.2	127.6	104.8	92.9	85.0	85.0	84.0	84.0	85.0
65°	167.1	142.3	117.7	91.0	73.1	64.2	58.3	58.3	57.4	58.3	57.4
67.5°	121.6	104.8	85.0	66.3	52.4	47.5	43.5	40.5	42.5	40.5	39.6
70°	89.0	75.1	61.3	50.4	40.5	35.7	32.6	31.6	29.7	29.7	29.7
72.5°	59.3	50.4	41.5	32.6	26.7	21.7	20.8	18.8	16.8	17.8	19.8
75°	39.6	33.6	29.7	23.7	17.8	17.8	11.9	11.9	9.9	11.9	8.9
77.5°	27.7	22.7	17.8	14.8	11.9	10.9	7.9	7.9	7.0	7.0	7.0
80°	19.8	16.8	12.8	10.9	7.9	7.9	7.0	6.0	5.0	5.0	6.0
82.5°	11.9	8.9	8.9	7.9	5.0	3.9	2.9	3.9	2.0	2.0	2.0
85°	7.0	6.0	5.0	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°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2036.9	2035.9	2037.8	2037.8	2043.8	2042.8	2045.8	2045.8	2043.8	2044.8	2048.7
5°	2043.8	2046.8	2052.7	2057.6	2066.5	2070.5	2075.4	2080.4	2081.4	2084.3	2087.3
7.5°	2043.8	2053.7	2060.7	2069.4	2081.4	2088.3	2099.1	2108.0	2112.0	2116.9	2122.9
10°	2039.8	2049.8	2062.6	2072.5	2087.3	2098.1	2109.0	2122.9	2128.8	2136.7	2144.7
12.5°	2032.0	2042.8	2056.6	2069.4	2086.3	2096.2	2110.0	2122.9	2131.8	2142.7	2151.6
15°	2020.0	2032.9	2045.8	2058.6	2076.4	2088.3	2101.2	2116.0	2124.9	2136.7	2144.7
17.5°	2001.3	2015.1	2027.0	2038.8	2055.6	2069.4	2081.4	2095.2	2104.1	2114.0	2124.9
20°	1978.5	1991.4	2004.3	2014.1	2031.0	2042.8	2055.6	2068.5	2075.4	2077.4	2094.2
22.5°	1949.8	1958.7	1968.6	1984.5	1994.4	2005.2	2017.1	2028.9	2035.9	2046.8	2052.7
25°	1902.4	1911.3	1922.2	1929.0	1941.0	1949.8	1961.7	1974.6	1978.5	1986.4	1992.4
27.5°	1836.1	1841.1	1846.0	1852.0	1858.8	1863.8	1870.8	1876.7	1880.7	1884.6	1888.5
30°	1731.4	1731.4	1731.4	1727.3	1730.4	1733.3	1734.3	1733.3	1733.3	1732.4	1732.4
32.5°	1592.9	1585.0	1576.1	1568.2	1565.2	1561.3	1559.2	1556.3	1551.4	1548.4	1549.4
35°	1406.0	1388.2	1377.3	1367.4	1359.6	1353.6	1350.7	1347.8	1346.7	1342.8	1338.8
37.5°	1172.7	1159.9	1151.9	1146.0	1139.1	1133.1	1134.1	1135.1	1138.0	1136.1	1137.0
40°	925.5	922.5	925.5	918.6	916.5	918.6	923.5	930.5	934.4	938.4	945.2
42.5°	704.0	709.0	715.8	715.8	718.9	722.8	728.7	739.6	745.5	752.4	760.4
45°	530.0	535.9	544.8	547.8	549.8	554.7	561.6	570.5	574.4	580.4	587.4
47.5°	408.4	412.3	417.3	422.2	427.2	429.1	436.0	436.0	441.0	444.9	447.0
50°	318.4	322.3	326.2	329.3	331.2	334.2	336.2	339.2	340.1	342.1	343.1
52.5°	249.2	254.1	254.1	256.0	259.1	262.0	261.0	262.0	263.0	263.0	266.0
55°	194.7	194.7	197.8	197.8	199.8	198.8	199.8	199.8	199.8	199.8	200.7
57.5°	145.4	146.4	149.3	147.4	146.4	148.3	146.4	148.3	147.4	149.3	146.4
60°	111.7	111.7	112.7	112.7	113.7	113.7	113.7	112.7	112.7	111.7	111.7
62.5°	84.0	85.0	86.1	85.0	85.0	85.0	84.0	84.0	83.0	82.0	82.0
65°	56.4	55.4	57.4	55.4	56.4	56.4	55.4	56.4	53.4	54.3	53.4
67.5°	40.5	39.6	38.6	39.6	38.6	37.6	37.6	38.6	39.6	36.6	36.6
70°	26.7	27.7	26.7	27.7	28.7	28.7	27.7	26.7	27.7	25.8	26.7
72.5°	16.8	16.8	16.8	16.8	16.8	17.8	17.8	17.8	15.9	15.9	14.8
75°	7.9	10.9	8.9	7.9	10.9	10.9	9.9	9.9	8.9	8.9	8.9
77.5°	7.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	6.0	5.0
80°	3.9	3.9	3.9	2.9	3.9	3.9	5.0	3.9	3.9	2.9	5.0
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: P246022

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2047.7	2046.8	2047.7	2048.7	2047.7	2046.8	2047.7	2048.7	2044.8	2043.8	2045.8
5°	2091.3	2091.3	2093.2	2094.2	2093.2	2091.3	2091.3	2087.3	2084.3	2081.4	2080.4
7.5°	2128.8	2130.9	2132.8	2133.8	2132.8	2130.9	2128.8	2122.9	2116.9	2112.0	2108.0
10°	2151.6	2154.6	2158.5	2160.5	2158.5	2154.6	2151.6	2144.7	2136.7	2128.8	2122.9
12.5°	2161.5	2164.4	2169.3	2168.4	2169.3	2164.4	2161.5	2151.6	2142.7	2131.8	2122.9
15°	2154.6	2158.5	2163.4	2165.4	2163.4	2158.5	2154.6	2144.7	2136.7	2124.9	2116.0
17.5°	2132.8	2138.7	2141.7	2144.7	2141.7	2138.7	2132.8	2124.9	2114.0	2104.1	2095.2
20°	2103.1	2107.1	2111.1	2112.0	2111.1	2107.1	2103.1	2094.2	2077.4	2075.4	2068.5
22.5°	2060.7	2063.6	2072.5	2069.4	2072.5	2063.6	2060.7	2052.7	2046.8	2035.9	2028.9
25°	1999.2	2002.3	2003.3	2004.3	2003.3	2002.3	1999.2	1992.4	1986.4	1978.5	1974.6
27.5°	1893.5	1893.5	1895.5	1896.5	1895.5	1893.5	1893.5	1888.5	1884.6	1880.7	1876.7
30°	1733.3	1733.3	1733.3	1738.2	1733.3	1733.3	1733.3	1732.4	1732.4	1733.3	1733.3
32.5°	1548.4	1546.4	1544.5	1546.4	1544.5	1546.4	1548.4	1549.4	1548.4	1551.4	1556.3
35°	1338.8	1337.9	1340.8	1336.8	1340.8	1337.9	1338.8	1338.8	1342.8	1346.7	1347.8
37.5°	1138.0	1136.1	1140.1	1136.1	1140.1	1136.1	1138.0	1137.0	1136.1	1138.0	1135.1
40°	947.2	949.2	949.2	957.2	949.2	949.2	947.2	945.2	938.4	934.4	930.5
42.5°	764.3	770.3	768.3	774.2	768.3	770.3	764.3	760.4	752.4	745.5	739.6
45°	591.3	595.2	595.2	597.3	595.2	595.2	591.3	587.4	580.4	574.4	570.5
47.5°	453.8	453.8	453.8	454.8	453.8	453.8	453.8	447.0	444.9	441.0	436.0
50°	345.0	346.0	347.1	348.1	347.1	346.0	345.0	343.1	342.1	340.1	339.2
52.5°	264.9	266.0	264.0	266.0	264.0	266.0	264.9	266.0	263.0	263.0	262.0
55°	200.7	199.8	200.7	201.7	200.7	199.8	200.7	200.7	199.8	199.8	199.8
57.5°	147.4	145.4	145.4	145.4	145.4	145.4	147.4	146.4	149.3	147.4	148.3
60°	109.8	110.7	110.7	111.7	110.7	110.7	109.8	111.7	111.7	112.7	112.7
62.5°	81.1	84.0	82.0	84.0	82.0	84.0	81.1	82.0	82.0	83.0	84.0
65°	52.4	52.4	52.4	53.4	52.4	52.4	52.4	53.4	54.3	53.4	56.4
67.5°	35.7	36.6	38.6	37.6	38.6	36.6	35.7	36.6	36.6	39.6	38.6
70°	28.7	25.8	25.8	28.7	25.8	25.8	28.7	26.7	25.8	27.7	26.7
72.5°	16.8	14.8	16.8	16.8	16.8	14.8	16.8	14.8	15.9	15.9	17.8
75°	8.9	7.9	7.0	9.9	7.0	7.9	8.9	8.9	8.9	8.9	9.9
77.5°	6.0	5.0	7.0	7.0	7.0	5.0	6.0	5.0	6.0	5.0	6.0
80°	2.9	3.9	2.9	5.0	2.9	3.9	2.9	5.0	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: P246022

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2045.8	2042.8	2043.8	2037.8	2037.8	2035.9	2036.9	2032.0	2030.0	2027.9	2031.0
5°	2075.4	2070.5	2066.5	2057.6	2052.7	2046.8	2043.8	2035.9	2028.9	2023.0	2022.1
7.5°	2099.1	2088.3	2081.4	2069.4	2060.7	2053.7	2043.8	2032.9	2024.0	2016.1	2010.2
10°	2109.0	2098.1	2087.3	2072.5	2062.6	2049.8	2039.8	2026.0	2014.1	2003.3	1996.3
12.5°	2110.0	2096.2	2086.3	2069.4	2056.6	2042.8	2032.0	2016.1	2002.3	1991.4	1980.6
15°	2101.2	2088.3	2076.4	2058.6	2045.8	2032.9	2020.0	2003.3	1990.5	1977.5	1969.6
17.5°	2081.4	2069.4	2055.6	2038.8	2027.0	2015.1	2001.3	1987.4	1972.6	1958.7	1948.8
20°	2055.6	2042.8	2031.0	2014.1	2004.3	1991.4	1978.5	1963.7	1951.9	1938.0	1927.1
22.5°	2017.1	2005.2	1994.4	1984.5	1968.6	1958.7	1949.8	1933.1	1921.2	1908.3	1896.5
25°	1961.7	1949.8	1941.0	1929.0	1922.2	1911.3	1902.4	1887.5	1876.7	1864.8	1854.9
27.5°	1870.8	1863.8	1858.8	1852.0	1846.0	1841.1	1836.1	1824.3	1816.4	1805.5	1795.6
30°	1734.3	1733.3	1730.4	1727.3	1731.4	1731.4	1731.4	1729.4	1722.5	1714.5	1707.6
32.5°	1559.2	1561.3	1565.2	1568.2	1576.1	1585.0	1592.9	1596.8	1596.8	1591.9	1589.0
35°	1350.7	1353.6	1359.6	1367.4	1377.3	1388.2	1406.0	1410.0	1412.9	1412.9	1409.0
37.5°	1134.1	1133.1	1139.1	1146.0	1151.9	1159.9	1172.7	1175.6	1180.6	1178.7	1174.6
40°	923.5	918.6	916.5	918.6	925.5	922.5	925.5	923.5	923.5	916.5	916.5
42.5°	728.7	722.8	718.9	715.8	715.8	709.0	704.0	699.1	696.2	691.2	690.2
45°	561.6	554.7	549.8	547.8	544.8	535.9	530.0	524.0	517.2	515.1	516.2
47.5°	436.0	429.1	427.2	422.2	417.3	412.3	408.4	401.4	400.4	396.4	400.4
50°	336.2	334.2	331.2	329.3	326.2	322.3	318.4	314.4	312.4	312.4	313.4
52.5°	261.0	262.0	259.1	256.0	254.1	254.1	249.2	248.2	248.2	244.2	248.2
55°	199.8	198.8	199.8	197.8	197.8	194.7	194.7	191.8	191.8	188.9	190.8
57.5°	146.4	148.3	146.4	147.4	149.3	146.4	145.4	142.3	144.3	142.3	143.4
60°	113.7	113.7	113.7	112.7	112.7	111.7	111.7	110.7	110.7	108.8	110.7
62.5°	84.0	85.0	85.0	85.0	86.1	85.0	84.0	85.0	84.0	84.0	85.0
65°	55.4	56.4	56.4	55.4	57.4	55.4	56.4	57.4	58.3	57.4	58.3
67.5°	37.6	37.6	38.6	39.6	38.6	39.6	40.5	39.6	40.5	42.5	40.5
70°	27.7	28.7	28.7	27.7	26.7	27.7	26.7	29.7	29.7	29.7	31.6
72.5°	17.8	17.8	16.8	16.8	16.8	16.8	16.8	19.8	17.8	16.8	18.8
75°	9.9	10.9	10.9	7.9	8.9	10.9	7.9	8.9	11.9	9.9	11.9
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.9	7.0	7.0	7.0	7.9
80°	5.0	3.9	3.9	2.9	3.9	3.9	3.9	6.0	5.0	5.0	6.0
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: P246022

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2023.0	2023.0	2022.1	2020.0	2016.1	2016.1	2015.1	2012.2	2010.2	2009.1	2009.1
5°	2013.1	2009.1	2005.2	1994.4	1994.4	1992.4	1986.4	1982.5	1980.6	1975.5	1973.6
7.5°	2004.3	1992.4	1985.4	1978.5	1969.6	1965.7	1958.7	1955.8	1948.8	1943.9	1941.0
10°	1982.5	1974.6	1965.7	1954.8	1947.8	1940.0	1932.1	1926.1	1917.2	1912.3	1908.3
12.5°	1967.6	1955.8	1947.8	1936.0	1924.2	1917.2	1906.3	1899.4	1890.6	1880.7	1874.7
15°	1953.8	1941.0	1930.0	1917.2	1904.4	1896.5	1883.6	1875.7	1862.9	1853.0	1846.0
17.5°	1933.1	1922.2	1910.4	1894.5	1882.7	1872.8	1858.8	1849.0	1837.1	1824.3	1817.3
20°	1911.3	1898.4	1886.6	1870.8	1858.8	1847.0	1833.2	1822.3	1808.4	1796.6	1788.8
22.5°	1882.7	1867.8	1857.9	1842.1	1828.2	1815.4	1802.6	1789.6	1776.8	1766.9	1758.0
25°	1841.1	1825.2	1814.4	1801.6	1788.8	1778.8	1763.0	1755.1	1742.2	1733.3	1724.4
27.5°	1781.8	1769.8	1760.1	1747.1	1736.3	1728.3	1716.5	1708.6	1697.7	1689.9	1682.9
30°	1694.8	1684.9	1676.0	1663.1	1655.2	1648.4	1637.4	1630.5	1622.6	1613.7	1611.7
32.5°	1578.0	1570.2	1561.3	1552.4	1546.4	1542.5	1533.6	1529.7	1521.7	1516.7	1511.9
35°	1402.1	1395.1	1390.3	1386.2	1384.3	1385.2	1383.3	1387.2	1389.3	1388.2	1389.3
37.5°	1171.7	1167.8	1169.8	1172.7	1182.6	1195.4	1207.2	1225.1	1236.9	1248.9	1259.7
40°	914.6	917.6	925.5	943.3	969.0	997.6	1024.4	1058.0	1091.6	1115.3	1137.0
42.5°	690.2	699.1	718.9	744.5	783.1	825.6	867.2	916.5	957.2	996.6	1024.4
45°	519.1	531.0	556.6	592.3	634.7	684.2	736.6	792.0	840.5	881.0	911.7
47.5°	404.4	415.2	441.0	478.6	531.0	582.4	636.8	694.1	744.5	784.1	810.8
50°	319.4	333.2	356.0	395.6	448.0	502.3	558.7	615.0	662.5	696.2	719.9
52.5°	251.1	264.0	285.8	327.3	380.7	435.0	487.5	542.8	584.3	616.9	632.8
55°	194.7	206.7	229.4	264.0	314.4	367.9	420.2	467.7	506.2	530.0	544.8
57.5°	148.3	157.3	173.0	207.7	253.1	302.5	347.1	394.5	424.2	441.0	450.9
60°	112.7	119.7	136.5	163.1	204.6	247.2	284.7	320.4	344.1	358.0	367.9
62.5°	85.0	92.9	104.8	127.6	159.2	193.8	225.4	252.1	271.9	280.8	287.8
65°	58.3	64.2	73.1	91.0	117.7	142.3	167.1	186.9	199.8	209.6	213.6
67.5°	43.5	47.5	52.4	66.3	85.0	104.8	121.6	135.5	149.3	153.2	160.2
70°	32.6	35.7	40.5	50.4	61.3	75.1	89.0	96.9	106.8	113.7	115.8
72.5°	20.8	21.7	26.7	32.6	41.5	50.4	59.3	66.3	72.2	76.2	78.1
75°	11.9	17.8	17.8	23.7	29.7	33.6	39.6	44.4	47.5	50.4	50.4
77.5°	7.9	10.9	11.9	14.8	17.8	22.7	27.7	30.6	33.6	34.6	34.6
80°	7.0	7.9	7.9	10.9	12.8	16.8	19.8	20.8	22.7	23.7	25.8
82.5°	2.9	3.9	5.0	7.9	8.9	8.9	11.9	12.8	14.8	15.9	15.9
85°	1.0	2.0	2.0	2.9	5.0	6.0	7.0	7.9	8.9	8.9	9.9
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	3.9	3.9	3.9	6.0	6.0
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: P246022

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2007.2	2008.2	2004.3	2003.3	2001.3	2002.3	2004.3
5°	1970.7	1971.6	1967.6	1963.7	1963.7	1962.7	1963.7
7.5°	1936.0	1937.0	1931.1	1929.0	1925.1	1926.1	1926.1
10°	1901.4	1901.4	1892.5	1891.5	1888.5	1887.5	1887.5
12.5°	1867.8	1864.8	1857.9	1854.0	1855.9	1850.0	1850.0
15°	1838.1	1833.2	1824.3	1821.3	1816.4	1814.4	1814.4
17.5°	1807.4	1803.5	1795.6	1789.6	1783.7	1782.8	1783.7
20°	1777.8	1773.9	1764.0	1760.1	1755.1	1755.1	1753.1
22.5°	1748.1	1744.2	1735.3	1732.4	1725.4	1725.4	1726.4
25°	1717.5	1714.5	1704.6	1702.7	1701.7	1697.7	1699.6
27.5°	1676.0	1674.0	1666.1	1663.1	1659.2	1658.1	1660.2
30°	1599.9	1596.8	1591.0	1587.9	1581.1	1582.1	1584.0
32.5°	1504.9	1501.0	1493.0	1490.1	1484.2	1482.2	1483.1
35°	1386.2	1383.3	1376.4	1376.4	1370.5	1368.4	1370.5
37.5°	1265.6	1268.6	1265.6	1268.6	1265.6	1264.6	1265.6
40°	1151.9	1162.8	1164.7	1175.6	1171.7	1177.6	1176.6
42.5°	1043.1	1061.0	1067.9	1076.7	1074.8	1078.8	1081.7
45°	933.4	948.3	955.1	961.1	962.1	964.1	965.0
47.5°	829.6	841.5	842.4	849.4	848.4	848.4	851.3
50°	732.7	740.6	742.5	747.6	743.5	741.6	742.5
52.5°	642.7	650.6	648.6	650.6	645.6	643.7	644.6
55°	550.7	554.7	554.7	554.7	548.8	548.8	548.8
57.5°	456.8	457.9	455.8	456.8	455.8	449.9	448.9
60°	370.8	370.8	369.8	370.8	367.9	364.8	364.8
62.5°	289.7	291.7	295.7	291.7	289.7	291.7	288.7
65°	216.6	220.5	219.5	221.5	220.5	220.5	218.5
67.5°	163.1	164.1	165.2	166.2	166.2	166.2	166.2
70°	119.7	122.6	121.6	121.6	121.6	121.6	127.6
72.5°	80.1	84.0	83.0	85.0	85.0	87.0	85.0
75°	54.3	58.3	56.4	59.3	58.3	56.4	61.3
77.5°	36.6	38.6	39.6	40.5	39.6	38.6	39.6
80°	25.8	27.7	26.7	27.7	27.7	27.7	28.7
82.5°	15.9	18.8	17.8	18.8	17.8	18.8	18.8
85°	10.9	11.9	9.9	11.9	10.9	10.9	12.8
87.5°	7.0	6.0	6.0	7.0	6.0	7.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)