

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: P245020

Luminaire Tested: **LD8B40D010 ER8B40930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245020
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 ER8B40930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3601.8 lumens
Efficiency: N/A
Efficacy: 88.1 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

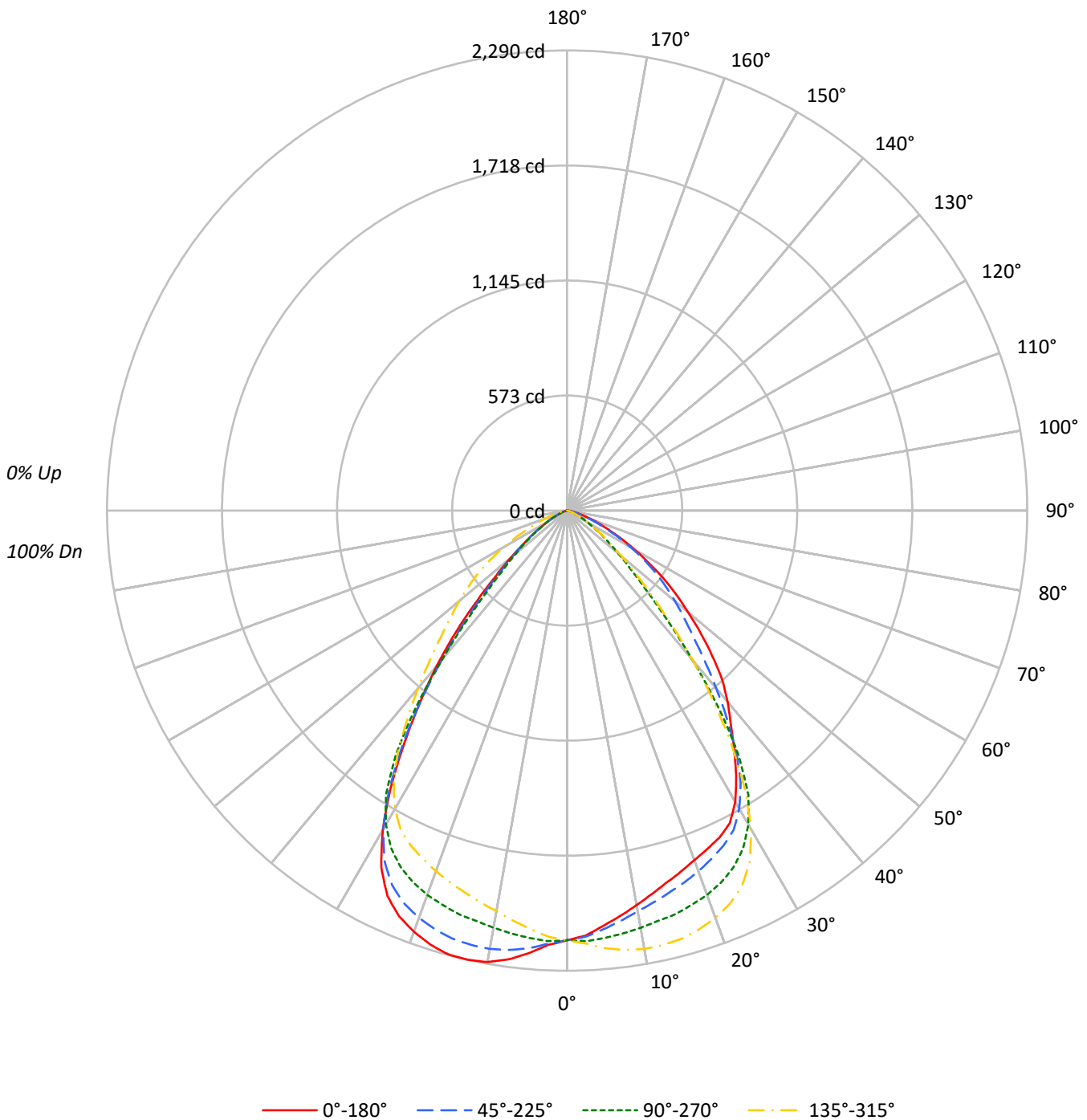
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

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°				



TEST NUMBER: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	5.7
10°-20°	589.4	16.4
20°-30°	892.4	24.8
30°-40°	894.4	24.8
40°-50°	561.6	15.6
50°-60°	299.3	8.3
60°-70°	123.1	3.4
70°-80°	32.5	0.9
80°-90°	5.5	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°	1685.3	46.8
0°-40°	2579.7	71.6
0°-60°	3440.7	95.5
0°-90°	3601.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2138	2138	2138	2138	2138	
5°	2074	2135	2211	2135	2074	196
15°	1916	2080	2286	2080	1916	542
25°	1795	1959	2116	1959	1795	823
35°	1447	1488	1412	1488	1447	907
45°	1019	545	631	545	1019	784
55°	579	202	213	202	579	517
65°	231	62	56	62	231	239
75°	65	13	10	13	65	73
85°	14	0	1	0	14	15
90°	0	0	0	0	0	



TEST NUMBER: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2116.3	2114.2	2113.2	2115.3	2116.3	2120.5	2119.5	2121.5	2121.5	2122.6	2124.6
5°	2073.5	2072.5	2073.5	2073.5	2077.7	2081.9	2080.8	2083.9	2086.1	2091.3	2093.4
7.5°	2033.8	2033.8	2032.8	2037.0	2039.1	2045.4	2044.3	2049.5	2052.7	2057.8	2065.1
10°	1993.1	1993.1	1994.1	1997.3	1998.4	2007.7	2007.7	2015.0	2019.3	2024.4	2033.8
12.5°	1953.5	1953.5	1959.7	1957.6	1961.8	1969.1	1972.3	1979.6	1985.9	1996.3	2005.7
15°	1915.9	1915.9	1917.9	1923.2	1926.3	1935.7	1940.9	1949.3	1956.6	1967.0	1980.6
17.5°	1883.5	1882.5	1883.5	1889.8	1896.1	1904.4	1908.5	1919.0	1926.3	1939.9	1952.4
20°	1851.1	1853.2	1853.2	1858.4	1862.7	1873.1	1877.2	1888.8	1897.1	1909.6	1924.2
22.5°	1823.0	1822.0	1822.0	1829.2	1832.4	1841.7	1846.0	1856.4	1865.8	1876.2	1889.8
25°	1794.7	1792.7	1796.9	1797.9	1800.0	1810.4	1813.6	1820.8	1830.3	1839.7	1853.2
27.5°	1753.0	1750.9	1752.0	1756.2	1759.3	1767.6	1769.7	1777.0	1784.3	1792.7	1804.1
30°	1672.5	1670.5	1669.5	1676.8	1679.9	1686.2	1689.3	1701.9	1703.9	1713.3	1721.6
32.5°	1566.0	1565.0	1567.2	1573.4	1576.6	1584.9	1589.1	1596.4	1601.6	1606.8	1615.1
35°	1447.1	1445.0	1447.1	1453.4	1453.4	1460.7	1463.8	1466.9	1465.8	1466.9	1464.8
37.5°	1336.5	1335.3	1336.5	1339.5	1336.5	1339.5	1336.5	1330.2	1318.6	1306.2	1293.6
40°	1242.4	1243.5	1237.2	1241.4	1229.8	1227.8	1216.4	1200.7	1177.7	1152.7	1117.2
42.5°	1142.2	1139.0	1134.9	1137.0	1127.6	1120.2	1101.5	1081.7	1052.4	1010.7	967.9
45°	1019.0	1018.0	1015.9	1014.8	1008.6	1001.3	985.6	962.6	930.3	887.5	836.3
47.5°	898.9	895.8	895.8	896.8	889.5	888.5	875.9	856.1	828.0	786.2	732.9
50°	784.0	783.0	785.1	789.3	784.0	782.0	773.7	760.2	735.0	699.5	649.4
52.5°	680.7	679.7	681.8	686.9	684.9	686.9	678.7	668.2	651.5	617.0	573.2
55°	579.4	579.4	579.4	585.7	585.7	585.7	581.6	575.3	559.6	534.6	493.9
57.5°	474.0	475.1	481.4	482.4	481.4	483.4	482.4	476.1	465.7	448.0	416.6
60°	385.3	385.3	388.4	391.6	390.4	391.6	391.6	388.4	378.0	363.3	338.3
62.5°	304.9	308.1	305.9	308.1	312.2	308.1	305.9	303.8	296.5	287.1	266.2
65°	230.7	232.8	232.8	233.8	231.7	232.8	228.7	225.5	221.4	211.0	197.3
67.5°	175.4	175.4	175.4	175.4	174.3	173.3	172.3	169.2	161.9	157.7	143.0
70°	134.6	128.4	128.4	128.4	128.4	129.5	126.3	122.2	120.1	112.8	102.3
72.5°	89.8	91.9	89.8	89.8	87.7	88.8	84.5	82.5	80.4	76.2	70.0
75°	64.7	59.5	61.5	62.7	59.5	61.5	57.4	53.2	53.2	50.1	47.0
77.5°	41.8	40.7	41.8	42.8	41.8	40.7	38.7	36.5	36.5	35.5	32.4
80°	30.3	29.3	29.3	29.3	28.1	29.3	27.1	27.1	25.1	24.0	22.0
82.5°	19.8	19.8	18.8	19.8	18.8	19.8	16.7	16.7	16.7	15.7	13.6
85°	13.6	11.4	11.4	12.6	10.4	12.6	11.4	10.4	9.4	9.4	8.3
87.5°	6.3	7.3	6.3	7.3	6.3	6.3	7.3	6.3	6.3	4.1	4.1
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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2127.8	2128.9	2128.9	2133.0	2135.2	2136.2	2136.2	2144.6	2141.4	2143.5	2145.6
5°	2097.6	2103.8	2105.9	2105.9	2117.3	2121.5	2125.8	2135.2	2136.2	2142.5	2149.7
7.5°	2068.2	2075.6	2079.8	2089.2	2096.5	2103.8	2116.3	2122.6	2128.9	2137.2	2146.6
10°	2040.1	2048.5	2056.8	2064.1	2075.6	2085.1	2093.4	2107.9	2115.3	2126.8	2139.3
12.5°	2013.0	2024.4	2031.8	2044.3	2056.8	2065.1	2077.7	2091.3	2102.8	2114.2	2128.9
15°	1989.0	2002.6	2010.8	2024.4	2038.1	2049.5	2063.1	2079.8	2088.2	2101.8	2115.3
17.5°	1962.9	1977.4	1988.0	2000.4	2017.1	2029.7	2041.2	2057.8	2068.2	2082.9	2098.6
20°	1935.7	1950.3	1962.9	1975.4	1992.1	2004.6	2018.1	2035.0	2046.4	2061.0	2073.5
22.5°	1903.3	1916.9	1930.5	1945.0	1961.8	1972.3	1988.0	2002.6	2015.0	2028.7	2041.2
25°	1861.5	1878.3	1888.8	1902.3	1915.9	1927.3	1944.0	1958.6	1969.1	1981.7	1993.1
27.5°	1812.5	1825.1	1833.4	1844.8	1858.4	1868.9	1881.4	1896.1	1906.5	1917.9	1926.3
30°	1728.9	1740.5	1747.8	1756.2	1769.7	1779.1	1789.6	1803.1	1810.4	1818.8	1826.1
32.5°	1619.3	1628.7	1633.0	1639.2	1648.7	1658.0	1666.4	1677.8	1680.9	1686.2	1686.2
35°	1460.7	1462.7	1461.7	1463.8	1467.9	1473.2	1480.5	1487.8	1491.9	1491.9	1488.9
37.5°	1274.8	1262.2	1248.7	1238.3	1235.1	1233.0	1237.2	1240.4	1244.5	1246.7	1241.4
40°	1081.7	1053.5	1023.1	996.0	977.3	968.9	965.7	967.9	967.9	975.2	975.2
42.5°	915.6	871.8	827.0	786.2	759.0	738.2	728.8	728.8	729.8	735.0	738.2
45°	777.9	722.5	670.2	625.4	587.9	560.6	548.2	545.0	544.0	546.0	553.3
47.5°	672.4	615.0	560.6	505.3	465.7	438.5	427.0	422.8	418.7	422.8	423.9
50°	589.9	530.3	472.9	417.7	375.9	351.9	337.2	330.9	329.9	329.9	332.0
52.5°	514.8	459.4	402.0	345.6	301.8	278.8	265.2	262.1	257.9	262.1	262.1
55°	443.7	388.4	332.0	278.8	242.2	218.3	205.7	201.6	199.4	202.6	202.6
57.5°	366.5	319.5	267.4	219.3	182.7	166.0	156.6	151.4	150.3	152.5	150.3
60°	300.7	261.1	216.1	172.3	144.0	126.3	119.1	116.9	114.8	116.9	116.9
62.5°	238.0	204.7	168.0	134.6	110.6	98.2	89.8	89.8	88.8	88.8	89.8
65°	176.4	150.3	124.2	96.1	77.2	67.8	61.5	61.5	60.5	61.5	60.5
67.5°	128.4	110.6	89.8	70.0	55.4	50.1	46.0	42.8	45.0	42.8	41.8
70°	93.9	79.4	64.7	53.2	42.8	37.6	34.4	33.4	31.3	31.3	31.3
72.5°	62.7	53.2	43.8	34.4	28.1	23.0	22.0	19.8	17.7	18.8	20.9
75°	41.8	35.5	31.3	25.1	18.8	18.8	12.6	12.6	10.4	12.6	9.4
77.5°	29.3	24.0	18.8	15.7	12.6	11.4	8.3	8.3	7.3	7.3	7.3
80°	20.9	17.7	13.6	11.4	8.3	8.3	7.3	6.3	5.2	5.2	6.3
82.5°	12.6	9.4	9.4	8.3	5.2	4.1	3.1	4.1	2.1	2.1	2.1
85°	7.3	6.3	5.2	3.1	2.1	2.1	1.0	0.0	1.0	1.0	0.0
87.5°	4.1	2.1	2.1	1.0	0.0	1.0	1.0	0.0	0.0	0.0	2.1
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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2150.9	2149.7	2151.9	2151.9	2158.1	2157.0	2160.2	2160.2	2158.1	2159.2	2163.3
5°	2158.1	2161.3	2167.5	2172.7	2182.1	2186.3	2191.6	2196.7	2197.8	2201.0	2204.0
7.5°	2158.1	2168.6	2175.9	2185.3	2197.8	2205.1	2216.6	2226.0	2230.1	2235.4	2241.7
10°	2153.9	2164.3	2177.9	2188.4	2204.0	2215.5	2227.0	2241.7	2247.9	2256.2	2264.6
12.5°	2145.6	2157.0	2171.6	2185.3	2203.0	2213.4	2228.0	2241.7	2251.1	2262.5	2271.9
15°	2133.0	2146.6	2160.2	2173.7	2192.6	2205.1	2218.7	2234.3	2243.7	2256.2	2264.6
17.5°	2113.2	2127.8	2140.3	2152.9	2170.6	2185.3	2197.8	2212.4	2221.8	2232.2	2243.7
20°	2089.2	2102.8	2116.3	2126.8	2144.6	2157.0	2170.6	2184.2	2191.6	2193.6	2211.4
22.5°	2058.9	2068.2	2078.8	2095.5	2105.9	2117.3	2129.9	2142.5	2149.7	2161.3	2167.5
25°	2008.7	2018.1	2029.7	2037.0	2049.5	2058.9	2071.4	2085.1	2089.2	2097.6	2103.8
27.5°	1938.9	1944.0	1949.3	1955.6	1962.9	1968.0	1975.4	1981.7	1985.9	1990.0	1994.1
30°	1828.1	1828.1	1828.1	1824.0	1827.1	1830.3	1831.3	1830.3	1830.3	1829.2	1829.2
32.5°	1681.9	1673.7	1664.2	1655.9	1652.8	1648.7	1646.5	1643.4	1638.1	1635.0	1636.1
35°	1484.7	1465.8	1454.4	1444.0	1435.7	1429.4	1426.2	1423.1	1422.0	1417.8	1413.7
37.5°	1238.3	1224.7	1216.4	1210.1	1202.8	1196.6	1197.6	1198.6	1201.7	1199.7	1200.7
40°	977.3	974.1	977.3	969.9	967.9	969.9	975.2	982.4	986.7	990.9	998.1
42.5°	743.3	748.6	755.9	755.9	759.0	763.3	769.5	781.0	787.2	794.6	802.9
45°	559.6	565.9	575.3	578.4	580.5	585.7	593.0	602.4	606.6	612.9	620.1
47.5°	431.2	435.4	440.6	445.8	451.0	453.1	460.4	460.4	465.7	469.8	471.9
50°	336.2	340.3	344.5	347.6	349.8	352.9	355.0	358.2	359.2	361.3	362.3
52.5°	263.1	268.4	268.4	270.4	273.5	276.7	275.7	276.7	277.7	277.7	280.8
55°	205.7	205.7	208.8	208.8	211.0	209.9	211.0	211.0	211.0	211.0	212.0
57.5°	153.5	154.6	157.7	155.6	154.6	156.6	154.6	156.6	155.6	157.7	154.6
60°	117.9	117.9	119.1	119.1	120.1	120.1	120.1	119.1	119.1	117.9	117.9
62.5°	88.8	89.8	90.8	89.8	89.8	89.8	88.8	88.8	87.7	86.7	86.7
65°	59.5	58.5	60.5	58.5	59.5	59.5	58.5	59.5	56.4	57.4	56.4
67.5°	42.8	41.8	40.7	41.8	40.7	39.7	39.7	40.7	41.8	38.7	38.7
70°	28.1	29.3	28.1	29.3	30.3	30.3	29.3	28.1	29.3	27.1	28.1
72.5°	17.7	17.7	17.7	17.7	17.7	18.8	18.8	18.8	16.7	16.7	15.7
75°	8.3	11.4	9.4	8.3	11.4	11.4	10.4	10.4	9.4	9.4	9.4
77.5°	8.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.2	6.3	5.2
80°	4.1	4.1	4.1	3.1	4.1	4.1	5.2	4.1	4.1	3.1	5.2
82.5°	2.1	2.1	2.1	0.0	1.0	2.1	2.1	1.0	2.1	2.1	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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2162.3	2161.3	2162.3	2163.3	2162.3	2161.3	2162.3	2163.3	2159.2	2158.1	2160.2
5°	2208.3	2208.3	2210.3	2211.4	2210.3	2208.3	2208.3	2204.0	2201.0	2197.8	2196.7
7.5°	2247.9	2250.0	2252.1	2253.1	2252.1	2250.0	2247.9	2241.7	2235.4	2230.1	2226.0
10°	2271.9	2275.1	2279.2	2281.2	2279.2	2275.1	2271.9	2264.6	2256.2	2247.9	2241.7
12.5°	2282.4	2285.5	2290.7	2289.6	2290.7	2285.5	2282.4	2271.9	2262.5	2251.1	2241.7
15°	2275.1	2279.2	2284.4	2286.5	2284.4	2279.2	2275.1	2264.6	2256.2	2243.7	2234.3
17.5°	2252.1	2258.4	2261.5	2264.6	2261.5	2258.4	2252.1	2243.7	2232.2	2221.8	2212.4
20°	2220.7	2225.0	2229.1	2230.1	2229.1	2225.0	2220.7	2211.4	2193.6	2191.6	2184.2
22.5°	2175.9	2179.0	2188.4	2185.3	2188.4	2179.0	2175.9	2167.5	2161.3	2149.7	2142.5
25°	2111.1	2114.2	2115.3	2116.3	2115.3	2114.2	2111.1	2103.8	2097.6	2089.2	2085.1
27.5°	1999.4	1999.4	2001.4	2002.6	2001.4	1999.4	1999.4	1994.1	1990.0	1985.9	1981.7
30°	1830.3	1830.3	1830.3	1835.5	1830.3	1830.3	1830.3	1829.2	1829.2	1830.3	1830.3
32.5°	1635.0	1633.0	1630.8	1633.0	1630.8	1633.0	1635.0	1636.1	1635.0	1638.1	1643.4
35°	1413.7	1412.6	1415.7	1411.6	1415.7	1412.6	1413.7	1413.7	1417.8	1422.0	1423.1
37.5°	1201.7	1199.7	1203.8	1199.7	1203.8	1199.7	1201.7	1200.7	1199.7	1201.7	1198.6
40°	1000.3	1002.3	1002.3	1010.7	1002.3	1002.3	1000.3	998.1	990.9	986.7	982.4
42.5°	807.1	813.4	811.3	817.5	811.3	813.4	807.1	802.9	794.6	787.2	781.0
45°	624.3	628.5	628.5	630.6	628.5	628.5	624.3	620.1	612.9	606.6	602.4
47.5°	479.2	479.2	479.2	480.2	479.2	479.2	479.2	471.9	469.8	465.7	460.4
50°	364.4	365.4	366.5	367.6	366.5	365.4	364.4	362.3	361.3	359.2	358.2
52.5°	279.8	280.8	278.8	280.8	278.8	280.8	279.8	280.8	277.7	277.7	276.7
55°	212.0	211.0	212.0	213.0	212.0	211.0	212.0	212.0	211.0	211.0	211.0
57.5°	155.6	153.5	153.5	153.5	153.5	153.5	155.6	154.6	157.7	155.6	156.6
60°	115.9	116.9	116.9	117.9	116.9	116.9	115.9	117.9	117.9	119.1	119.1
62.5°	85.6	88.8	86.7	88.8	86.7	88.8	85.6	86.7	86.7	87.7	88.8
65°	55.4	55.4	55.4	56.4	55.4	55.4	55.4	56.4	57.4	56.4	59.5
67.5°	37.6	38.7	40.7	39.7	40.7	38.7	37.6	38.7	38.7	41.8	40.7
70°	30.3	27.1	27.1	30.3	27.1	27.1	30.3	28.1	27.1	29.3	28.1
72.5°	17.7	15.7	17.7	17.7	17.7	15.7	17.7	15.7	16.7	16.7	18.8
75°	9.4	8.3	7.3	10.4	7.3	8.3	9.4	9.4	9.4	9.4	10.4
77.5°	6.3	5.2	7.3	7.3	7.3	5.2	6.3	5.2	6.3	5.2	6.3
80°	3.1	4.1	3.1	5.2	3.1	4.1	3.1	5.2	3.1	4.1	4.1
82.5°	1.0	2.1	2.1	2.1	2.1	2.1	1.0	1.0	2.1	2.1	1.0
85°	0.0	2.1	1.0	1.0	1.0	2.1	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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2160.2	2157.0	2158.1	2151.9	2151.9	2149.7	2150.9	2145.6	2143.5	2141.4	2144.6
5°	2191.6	2186.3	2182.1	2172.7	2167.5	2161.3	2158.1	2149.7	2142.5	2136.2	2135.2
7.5°	2216.6	2205.1	2197.8	2185.3	2175.9	2168.6	2158.1	2146.6	2137.2	2128.9	2122.6
10°	2227.0	2215.5	2204.0	2188.4	2177.9	2164.3	2153.9	2139.3	2126.8	2115.3	2107.9
12.5°	2228.0	2213.4	2203.0	2185.3	2171.6	2157.0	2145.6	2128.9	2114.2	2102.8	2091.3
15°	2218.7	2205.1	2192.6	2173.7	2160.2	2146.6	2133.0	2115.3	2101.8	2088.2	2079.8
17.5°	2197.8	2185.3	2170.6	2152.9	2140.3	2127.8	2113.2	2098.6	2082.9	2068.2	2057.8
20°	2170.6	2157.0	2144.6	2126.8	2116.3	2102.8	2089.2	2073.5	2061.0	2046.4	2035.0
22.5°	2129.9	2117.3	2105.9	2095.5	2078.8	2068.2	2058.9	2041.2	2028.7	2015.0	2002.6
25°	2071.4	2058.9	2049.5	2037.0	2029.7	2018.1	2008.7	1993.1	1981.7	1969.1	1958.6
27.5°	1975.4	1968.0	1962.9	1955.6	1949.3	1944.0	1938.9	1926.3	1917.9	1906.5	1896.1
30°	1831.3	1830.3	1827.1	1824.0	1828.1	1828.1	1828.1	1826.1	1818.8	1810.4	1803.1
32.5°	1646.5	1648.7	1652.8	1655.9	1664.2	1673.7	1681.9	1686.2	1686.2	1680.9	1677.8
35°	1426.2	1429.4	1435.7	1444.0	1454.4	1465.8	1484.7	1488.9	1491.9	1491.9	1487.8
37.5°	1197.6	1196.6	1202.8	1210.1	1216.4	1224.7	1238.3	1241.4	1246.7	1244.5	1240.4
40°	975.2	969.9	967.9	969.9	977.3	974.1	977.3	975.2	975.2	967.9	967.9
42.5°	769.5	763.3	759.0	755.9	755.9	748.6	743.3	738.2	735.0	729.8	728.8
45°	593.0	585.7	580.5	578.4	575.3	565.9	559.6	553.3	546.0	544.0	545.0
47.5°	460.4	453.1	451.0	445.8	440.6	435.4	431.2	423.9	422.8	418.7	422.8
50°	355.0	352.9	349.8	347.6	344.5	340.3	336.2	332.0	329.9	329.9	330.9
52.5°	275.7	276.7	273.5	270.4	268.4	268.4	263.1	262.1	262.1	257.9	262.1
55°	211.0	209.9	211.0	208.8	208.8	205.7	205.7	202.6	202.6	199.4	201.6
57.5°	154.6	156.6	154.6	155.6	157.7	154.6	153.5	150.3	152.5	150.3	151.4
60°	120.1	120.1	120.1	119.1	119.1	117.9	117.9	116.9	116.9	114.8	116.9
62.5°	88.8	89.8	89.8	89.8	90.8	89.8	88.8	89.8	88.8	88.8	89.8
65°	58.5	59.5	59.5	58.5	60.5	58.5	59.5	60.5	61.5	60.5	61.5
67.5°	39.7	39.7	40.7	41.8	40.7	41.8	42.8	41.8	42.8	45.0	42.8
70°	29.3	30.3	30.3	29.3	28.1	29.3	28.1	31.3	31.3	31.3	33.4
72.5°	18.8	18.8	17.7	17.7	17.7	17.7	17.7	20.9	18.8	17.7	19.8
75°	10.4	11.4	11.4	8.3	9.4	11.4	8.3	9.4	12.6	10.4	12.6
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	8.3	7.3	7.3	7.3	8.3
80°	5.2	4.1	4.1	3.1	4.1	4.1	4.1	6.3	5.2	5.2	6.3
82.5°	2.1	2.1	1.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.1
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	2.1	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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2136.2	2136.2	2135.2	2133.0	2128.9	2128.9	2127.8	2124.6	2122.6	2121.5	2121.5
5°	2125.8	2121.5	2117.3	2105.9	2105.9	2103.8	2097.6	2093.4	2091.3	2086.1	2083.9
7.5°	2116.3	2103.8	2096.5	2089.2	2079.8	2075.6	2068.2	2065.1	2057.8	2052.7	2049.5
10°	2093.4	2085.1	2075.6	2064.1	2056.8	2048.5	2040.1	2033.8	2024.4	2019.3	2015.0
12.5°	2077.7	2065.1	2056.8	2044.3	2031.8	2024.4	2013.0	2005.7	1996.3	1985.9	1979.6
15°	2063.1	2049.5	2038.1	2024.4	2010.8	2002.6	1989.0	1980.6	1967.0	1956.6	1949.3
17.5°	2041.2	2029.7	2017.1	2000.4	1988.0	1977.4	1962.9	1952.4	1939.9	1926.3	1919.0
20°	2018.1	2004.6	1992.1	1975.4	1962.9	1950.3	1935.7	1924.2	1909.6	1897.1	1888.8
22.5°	1988.0	1972.3	1961.8	1945.0	1930.5	1916.9	1903.3	1889.8	1876.2	1865.8	1856.4
25°	1944.0	1927.3	1915.9	1902.3	1888.8	1878.3	1861.5	1853.2	1839.7	1830.3	1820.8
27.5°	1881.4	1868.9	1858.4	1844.8	1833.4	1825.1	1812.5	1804.1	1792.7	1784.3	1777.0
30°	1789.6	1779.1	1769.7	1756.2	1747.8	1740.5	1728.9	1721.6	1713.3	1703.9	1701.9
32.5°	1666.4	1658.0	1648.7	1639.2	1633.0	1628.7	1619.3	1615.1	1606.8	1601.6	1596.4
35°	1480.5	1473.2	1467.9	1463.8	1461.7	1462.7	1460.7	1464.8	1466.9	1465.8	1466.9
37.5°	1237.2	1233.0	1235.1	1238.3	1248.7	1262.2	1274.8	1293.6	1306.2	1318.6	1330.2
40°	965.7	968.9	977.3	996.0	1023.1	1053.5	1081.7	1117.2	1152.7	1177.7	1200.7
42.5°	728.8	738.2	759.0	786.2	827.0	871.8	915.6	967.9	1010.7	1052.4	1081.7
45°	548.2	560.6	587.9	625.4	670.2	722.5	777.9	836.3	887.5	930.3	962.6
47.5°	427.0	438.5	465.7	505.3	560.6	615.0	672.4	732.9	786.2	828.0	856.1
50°	337.2	351.9	375.9	417.7	472.9	530.3	589.9	649.4	699.5	735.0	760.2
52.5°	265.2	278.8	301.8	345.6	402.0	459.4	514.8	573.2	617.0	651.5	668.2
55°	205.7	218.3	242.2	278.8	332.0	388.4	443.7	493.9	534.6	559.6	575.3
57.5°	156.6	166.0	182.7	219.3	267.4	319.5	366.5	416.6	448.0	465.7	476.1
60°	119.1	126.3	144.0	172.3	216.1	261.1	300.7	338.3	363.3	378.0	388.4
62.5°	89.8	98.2	110.6	134.6	168.0	204.7	238.0	266.2	287.1	296.5	303.8
65°	61.5	67.8	77.2	96.1	124.2	150.3	176.4	197.3	211.0	221.4	225.5
67.5°	46.0	50.1	55.4	70.0	89.8	110.6	128.4	143.0	157.7	161.9	169.2
70°	34.4	37.6	42.8	53.2	64.7	79.4	93.9	102.3	112.8	120.1	122.2
72.5°	22.0	23.0	28.1	34.4	43.8	53.2	62.7	70.0	76.2	80.4	82.5
75°	12.6	18.8	18.8	25.1	31.3	35.5	41.8	47.0	50.1	53.2	53.2
77.5°	8.3	11.4	12.6	15.7	18.8	24.0	29.3	32.4	35.5	36.5	36.5
80°	7.3	8.3	8.3	11.4	13.6	17.7	20.9	22.0	24.0	25.1	27.1
82.5°	3.1	4.1	5.2	8.3	9.4	9.4	12.6	13.6	15.7	16.7	16.7
85°	1.0	2.1	2.1	3.1	5.2	6.3	7.3	8.3	9.4	9.4	10.4
87.5°	1.0	1.0	0.0	1.0	2.1	2.1	4.1	4.1	4.1	6.3	6.3
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: P245020

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3	2138.3
2.5°	2119.5	2120.5	2116.3	2115.3	2113.2	2114.2	2116.3
5°	2080.8	2081.9	2077.7	2073.5	2073.5	2072.5	2073.5
7.5°	2044.3	2045.4	2039.1	2037.0	2032.8	2033.8	2033.8
10°	2007.7	2007.7	1998.4	1997.3	1994.1	1993.1	1993.1
12.5°	1972.3	1969.1	1961.8	1957.6	1959.7	1953.5	1953.5
15°	1940.9	1935.7	1926.3	1923.2	1917.9	1915.9	1915.9
17.5°	1908.5	1904.4	1896.1	1889.8	1883.5	1882.5	1883.5
20°	1877.2	1873.1	1862.7	1858.4	1853.2	1853.2	1851.1
22.5°	1846.0	1841.7	1832.4	1829.2	1822.0	1822.0	1823.0
25°	1813.6	1810.4	1800.0	1797.9	1796.9	1792.7	1794.7
27.5°	1769.7	1767.6	1759.3	1756.2	1752.0	1750.9	1753.0
30°	1689.3	1686.2	1679.9	1676.8	1669.5	1670.5	1672.5
32.5°	1589.1	1584.9	1576.6	1573.4	1567.2	1565.0	1566.0
35°	1463.8	1460.7	1453.4	1453.4	1447.1	1445.0	1447.1
37.5°	1336.5	1339.5	1336.5	1339.5	1336.5	1335.3	1336.5
40°	1216.4	1227.8	1229.8	1241.4	1237.2	1243.5	1242.4
42.5°	1101.5	1120.2	1127.6	1137.0	1134.9	1139.0	1142.2
45°	985.6	1001.3	1008.6	1014.8	1015.9	1018.0	1019.0
47.5°	875.9	888.5	889.5	896.8	895.8	895.8	898.9
50°	773.7	782.0	784.0	789.3	785.1	783.0	784.0
52.5°	678.7	686.9	684.9	686.9	681.8	679.7	680.7
55°	581.6	585.7	585.7	585.7	579.4	579.4	579.4
57.5°	482.4	483.4	481.4	482.4	481.4	475.1	474.0
60°	391.6	391.6	390.4	391.6	388.4	385.3	385.3
62.5°	305.9	308.1	312.2	308.1	305.9	308.1	304.9
65°	228.7	232.8	231.7	233.8	232.8	232.8	230.7
67.5°	172.3	173.3	174.3	175.4	175.4	175.4	175.4
70°	126.3	129.5	128.4	128.4	128.4	128.4	134.6
72.5°	84.5	88.8	87.7	89.8	89.8	91.9	89.8
75°	57.4	61.5	59.5	62.7	61.5	59.5	64.7
77.5°	38.7	40.7	41.8	42.8	41.8	40.7	41.8
80°	27.1	29.3	28.1	29.3	29.3	29.3	30.3
82.5°	16.7	19.8	18.8	19.8	18.8	19.8	19.8
85°	11.4	12.6	10.4	12.6	11.4	11.4	13.6
87.5°	7.3	6.3	6.3	7.3	6.3	7.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)