

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: P245933

Luminaire Tested: **LD8B50D010 ER8B50935 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245933  
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 ER8B50935 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3587.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 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

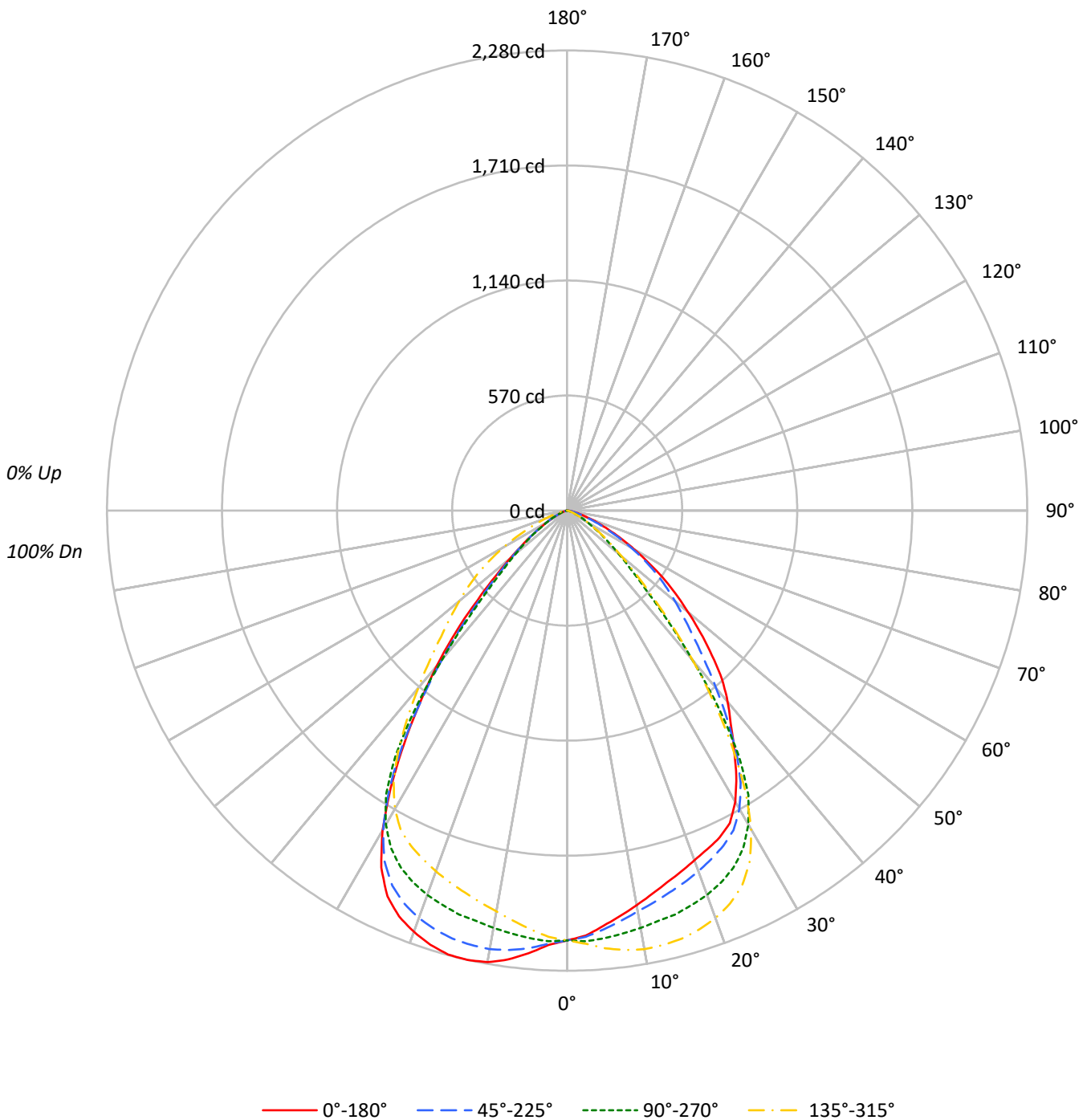
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	65666	65666	65666	65666
5°	63920	65821	68170	65821
10°	62154	65733	71138	65733
15°	60911	66124	72694	66124
20°	60498	66504	72883	66504
25°	60815	66367	71713	66367
30°	59310	63939	65089	63939
35°	54253	55777	52920	55777
40°	49810	38801	40516	38801
45°	44255	23671	27387	23671
50°	37462	15812	17558	15812
55°	31026	10790	11403	10790
60°	23664	7185	7247	7185
65°	16767	4473	4101	4473
70°	12090	3002	2723	3002
75°	7685	1489	1239	1489
80°	5363	1101	923	1101
85°	4776	0	354	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.7	5.7
10°-20°	586.9	16.4
20°-30°	888.8	24.8
30°-40°	890.8	24.8
40°-50°	559.3	15.6
50°-60°	298.1	8.3
60°-70°	122.6	3.4
70°-80°	32.4	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°	1678.4	46.8
0°-40°	2569.1	71.6
0°-60°	3426.6	95.5
0°-90°	3587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2130	2130	2130	2130	2130	
5°	2065	2126	2202	2126	2065	195
15°	1908	2071	2277	2071	1908	540
25°	1787	1951	2108	1951	1787	820
35°	1441	1482	1406	1482	1441	903
45°	1015	543	628	543	1015	780
55°	577	201	212	201	577	515
65°	230	61	56	61	230	238
75°	64	12	10	12	64	73
85°	14	0	1	0	14	15
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°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2107.7	2105.6	2104.5	2106.6	2107.7	2111.8	2110.8	2112.8	2112.8	2113.9	2116.0
5°	2065.0	2064.0	2065.0	2065.0	2069.2	2073.3	2072.3	2075.4	2077.5	2082.7	2084.8
7.5°	2025.5	2025.5	2024.5	2028.6	2030.7	2037.0	2035.9	2041.1	2044.2	2049.4	2056.7
10°	1985.0	1985.0	1986.0	1989.1	1990.2	1999.5	1999.5	2006.8	2010.9	2016.2	2025.5
12.5°	1945.5	1945.5	1951.7	1949.6	1953.8	1961.0	1964.2	1971.4	1977.7	1988.1	1997.5
15°	1908.0	1908.0	1910.1	1915.3	1918.4	1927.8	1933.0	1941.3	1948.6	1959.0	1972.5
17.5°	1875.8	1874.8	1875.8	1882.0	1888.3	1896.6	1900.7	1911.1	1918.4	1931.9	1944.4
20°	1843.6	1845.6	1845.6	1850.8	1855.0	1865.4	1869.5	1881.0	1889.3	1901.8	1916.4
22.5°	1815.5	1814.4	1814.4	1821.7	1824.8	1834.2	1838.3	1848.7	1858.1	1868.5	1882.0
25°	1787.4	1785.3	1789.5	1790.5	1792.6	1803.0	1806.1	1813.4	1822.8	1832.1	1845.6
27.5°	1745.8	1743.7	1744.8	1748.9	1752.0	1760.4	1762.4	1769.7	1777.0	1785.3	1796.8
30°	1665.7	1663.7	1662.6	1669.9	1673.0	1679.2	1682.4	1694.9	1696.9	1706.3	1714.6
32.5°	1559.7	1558.6	1560.7	1566.9	1570.1	1578.4	1582.6	1589.8	1595.0	1600.2	1608.5
35°	1441.2	1439.1	1441.2	1447.4	1447.4	1454.7	1457.8	1460.9	1459.9	1460.9	1458.8
37.5°	1331.0	1329.9	1331.0	1334.0	1331.0	1334.0	1331.0	1324.7	1313.3	1300.8	1288.3
40°	1237.4	1238.4	1232.2	1236.3	1224.9	1222.8	1211.4	1195.8	1172.9	1147.9	1112.6
42.5°	1137.5	1134.4	1130.3	1132.3	1123.0	1115.7	1097.0	1077.2	1048.1	1006.5	963.9
45°	1014.8	1013.8	1011.7	1010.7	1004.4	997.2	981.5	958.7	926.5	883.8	832.9
47.5°	895.3	892.1	892.1	893.2	885.9	884.9	872.4	852.6	824.6	783.0	729.9
50°	780.9	779.8	781.9	786.1	780.9	778.8	770.5	757.0	732.0	696.7	646.7
52.5°	677.9	676.9	679.0	684.2	682.1	684.2	675.9	665.5	648.8	614.5	570.8
55°	577.1	577.1	577.1	583.3	583.3	583.3	579.2	572.9	557.3	532.4	491.8
57.5°	472.1	473.1	479.3	480.4	479.3	481.4	480.4	474.1	463.8	446.1	414.9
60°	383.7	383.7	386.8	389.9	388.9	389.9	389.9	386.8	376.4	361.9	336.9
62.5°	303.6	306.7	304.6	306.7	310.9	306.7	304.6	302.6	295.3	285.9	265.1
65°	229.8	231.9	231.9	232.9	230.8	231.9	227.7	224.6	220.5	210.1	196.5
67.5°	174.7	174.7	174.7	174.7	173.6	172.6	171.6	168.5	161.2	157.0	142.4
70°	134.1	127.9	127.9	127.9	127.9	129.0	125.8	121.7	119.6	112.3	101.9
72.5°	89.4	91.5	89.4	89.4	87.4	88.4	84.2	82.1	80.1	75.9	69.7
75°	64.5	59.3	61.3	62.4	59.3	61.3	57.2	53.0	53.0	49.9	46.8
77.5°	41.6	40.6	41.6	42.6	41.6	40.6	38.5	36.4	36.4	35.4	32.2
80°	30.2	29.1	29.1	29.1	28.1	29.1	27.0	27.0	25.0	23.9	21.8
82.5°	19.8	19.8	18.7	19.8	18.7	19.8	16.6	16.6	16.6	15.6	13.5
85°	13.5	11.4	11.4	12.5	10.4	12.5	11.4	10.4	9.4	9.4	8.3
87.5°	6.2	7.3	6.2	7.3	6.2	6.2	7.3	6.2	6.2	4.2	4.2
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°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2119.1	2120.1	2120.1	2124.3	2126.4	2127.4	2127.4	2135.7	2132.6	2134.7	2136.8
5°	2089.0	2095.2	2097.3	2097.3	2108.7	2112.8	2117.0	2126.4	2127.4	2133.6	2140.9
7.5°	2059.8	2067.1	2071.3	2080.6	2087.9	2095.2	2107.7	2113.9	2120.1	2128.5	2137.8
10°	2031.7	2040.1	2048.4	2055.7	2067.1	2076.5	2084.8	2099.3	2106.6	2118.1	2130.5
12.5°	2004.7	2016.2	2023.4	2035.9	2048.4	2056.7	2069.2	2082.7	2094.1	2105.6	2120.1
15°	1980.8	1994.3	2002.6	2016.2	2029.7	2041.1	2054.6	2071.3	2079.6	2093.1	2106.6
17.5°	1954.8	1969.4	1979.8	1992.2	2008.9	2021.3	2032.8	2049.4	2059.8	2074.4	2090.0
20°	1927.8	1942.3	1954.8	1967.3	1983.9	1996.4	2009.9	2026.6	2038.0	2052.5	2065.0
22.5°	1895.6	1909.1	1922.6	1937.1	1953.8	1964.2	1979.8	1994.3	2006.8	2020.3	2032.8
25°	1854.0	1870.6	1881.0	1894.5	1908.0	1919.4	1936.1	1950.6	1961.0	1973.5	1985.0
27.5°	1805.1	1817.6	1825.9	1837.3	1850.8	1861.2	1873.7	1888.3	1898.7	1910.1	1918.4
30°	1721.9	1733.3	1740.6	1748.9	1762.4	1771.8	1782.2	1795.7	1803.0	1811.3	1818.6
32.5°	1612.7	1622.1	1626.2	1632.5	1641.8	1651.2	1659.5	1670.9	1674.1	1679.2	1679.2
35°	1454.7	1456.7	1455.7	1457.8	1462.0	1467.1	1474.4	1481.7	1485.8	1485.8	1482.8
37.5°	1269.6	1257.1	1243.6	1233.2	1230.1	1228.0	1232.2	1235.3	1239.4	1241.5	1236.3
40°	1077.2	1049.2	1019.0	991.9	973.2	964.9	961.8	963.9	963.9	971.1	971.1
42.5°	911.9	868.2	823.5	783.0	755.9	735.2	725.8	725.8	726.8	732.0	735.2
45°	774.7	719.5	667.5	622.8	585.4	558.4	545.9	542.8	541.7	543.8	551.1
47.5°	669.6	612.4	558.4	503.3	463.8	436.7	425.3	421.1	416.9	421.1	422.2
50°	587.5	528.2	471.0	415.9	374.3	350.4	335.8	329.6	328.6	328.6	330.7
52.5°	512.6	457.5	400.3	344.2	300.5	277.6	264.1	261.0	256.8	261.0	261.0
55°	441.9	386.8	330.7	277.6	241.2	217.3	204.8	200.7	198.6	201.7	201.7
57.5°	365.0	318.2	266.2	218.4	182.0	165.3	156.0	150.8	149.7	151.8	149.7
60°	299.5	260.0	215.2	171.6	143.5	125.8	118.6	116.5	114.4	116.5	116.5
62.5°	237.1	203.8	167.4	134.1	110.2	97.8	89.4	89.4	88.4	88.4	89.4
65°	175.7	149.7	123.7	95.7	77.0	67.6	61.3	61.3	60.3	61.3	60.3
67.5°	127.9	110.2	89.4	69.7	55.1	49.9	45.8	42.6	44.7	42.6	41.6
70°	93.6	79.0	64.5	53.0	42.6	37.4	34.3	33.3	31.2	31.2	31.2
72.5°	62.4	53.0	43.7	34.3	28.1	22.9	21.8	19.8	17.7	18.7	20.8
75°	41.6	35.4	31.2	25.0	18.7	18.7	12.5	12.5	10.4	12.5	9.4
77.5°	29.1	23.9	18.7	15.6	12.5	11.4	8.3	8.3	7.3	7.3	7.3
80°	20.8	17.7	13.5	11.4	8.3	8.3	7.3	6.2	5.2	5.2	6.2
82.5°	12.5	9.4	9.4	8.3	5.2	4.2	3.1	4.2	2.1	2.1	2.1
85°	7.3	6.2	5.2	3.1	2.1	2.1	1.0	0.0	1.0	1.0	0.0
87.5°	4.2	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2142.0	2140.9	2143.0	2143.0	2149.3	2148.2	2151.3	2151.3	2149.3	2150.3	2154.4
5°	2149.3	2152.4	2158.6	2163.8	2173.1	2177.3	2182.5	2187.7	2188.8	2191.9	2195.0
7.5°	2149.3	2159.7	2166.9	2176.3	2188.8	2196.0	2207.5	2216.8	2221.0	2226.2	2232.4
10°	2145.1	2155.5	2169.0	2179.4	2195.0	2206.4	2217.9	2232.4	2238.7	2247.0	2255.3
12.5°	2136.8	2148.2	2162.7	2176.3	2193.9	2204.3	2218.9	2232.4	2241.8	2253.2	2262.6
15°	2124.3	2137.8	2151.3	2164.8	2183.5	2196.0	2209.6	2225.1	2234.5	2247.0	2255.3
17.5°	2104.5	2119.1	2131.6	2144.0	2161.7	2176.3	2188.8	2203.3	2212.7	2223.1	2234.5
20°	2080.6	2094.1	2107.7	2118.1	2135.7	2148.2	2161.7	2175.2	2182.5	2184.6	2202.3
22.5°	2050.5	2059.8	2070.2	2086.9	2097.3	2108.7	2121.2	2133.6	2140.9	2152.4	2158.6
25°	2000.5	2009.9	2021.3	2028.6	2041.1	2050.5	2062.9	2076.5	2080.6	2089.0	2095.2
27.5°	1930.9	1936.1	1941.3	1947.5	1954.8	1960.0	1967.3	1973.5	1977.7	1981.8	1986.0
30°	1820.7	1820.7	1820.7	1816.5	1819.6	1822.8	1823.8	1822.8	1822.8	1821.7	1821.7
32.5°	1675.1	1666.8	1657.4	1649.1	1646.0	1641.8	1639.7	1636.6	1631.4	1628.3	1629.3
35°	1478.6	1459.9	1448.4	1438.0	1429.7	1423.5	1420.4	1417.2	1416.2	1412.1	1407.9
37.5°	1233.2	1219.7	1211.4	1205.1	1197.8	1191.6	1192.6	1193.7	1196.8	1194.7	1195.8
40°	973.2	970.1	973.2	966.0	963.9	966.0	971.1	978.5	982.6	986.8	994.0
42.5°	740.3	745.5	752.8	752.8	755.9	760.1	766.3	777.8	784.0	791.3	799.6
45°	557.3	563.6	572.9	576.0	578.1	583.3	590.6	600.0	604.1	610.4	617.6
47.5°	429.4	433.6	438.8	444.0	449.2	451.3	458.5	458.5	463.8	467.9	470.0
50°	334.8	339.0	343.1	346.2	348.3	351.5	353.5	356.6	357.7	359.8	360.8
52.5°	262.0	267.2	267.2	269.3	272.4	275.5	274.5	275.5	276.6	276.6	279.7
55°	204.8	204.8	208.0	208.0	210.1	209.0	210.1	210.1	210.1	210.1	211.1
57.5°	152.8	153.9	157.0	154.9	153.9	156.0	153.9	156.0	154.9	157.0	153.9
60°	117.5	117.5	118.6	118.6	119.6	119.6	119.6	118.6	118.6	117.5	117.5
62.5°	88.4	89.4	90.5	89.4	89.4	89.4	88.4	88.4	87.4	86.3	86.3
65°	59.3	58.2	60.3	58.2	59.3	59.3	58.2	59.3	56.2	57.2	56.2
67.5°	42.6	41.6	40.6	41.6	40.6	39.5	39.5	40.6	41.6	38.5	38.5
70°	28.1	29.1	28.1	29.1	30.2	30.2	29.1	28.1	29.1	27.0	28.1
72.5°	17.7	17.7	17.7	17.7	17.7	18.7	18.7	18.7	16.6	16.6	15.6
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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.2	6.2	5.2
80°	4.2	4.2	4.2	3.1	4.2	4.2	5.2	4.2	4.2	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: P245933

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2153.4	2152.4	2153.4	2154.4	2153.4	2152.4	2153.4	2154.4	2150.3	2149.3	2151.3
5°	2199.2	2199.2	2201.2	2202.3	2201.2	2199.2	2199.2	2195.0	2191.9	2188.8	2187.7
7.5°	2238.7	2240.8	2242.8	2243.8	2242.8	2240.8	2238.7	2232.4	2226.2	2221.0	2216.8
10°	2262.6	2265.7	2269.9	2271.9	2269.9	2265.7	2262.6	2255.3	2247.0	2238.7	2232.4
12.5°	2273.0	2276.1	2281.3	2280.3	2281.3	2276.1	2273.0	2262.6	2253.2	2241.8	2232.4
15°	2265.7	2269.9	2275.0	2277.1	2275.0	2269.9	2265.7	2255.3	2247.0	2234.5	2225.1
17.5°	2242.8	2249.1	2252.2	2255.3	2252.2	2249.1	2242.8	2234.5	2223.1	2212.7	2203.3
20°	2211.6	2215.8	2220.0	2221.0	2220.0	2215.8	2211.6	2202.3	2184.6	2182.5	2175.2
22.5°	2166.9	2170.1	2179.4	2176.3	2179.4	2170.1	2166.9	2158.6	2152.4	2140.9	2133.6
25°	2102.4	2105.6	2106.6	2107.7	2106.6	2105.6	2102.4	2095.2	2089.0	2080.6	2076.5
27.5°	1991.2	1991.2	1993.3	1994.3	1993.3	1991.2	1991.2	1986.0	1981.8	1977.7	1973.5
30°	1822.8	1822.8	1822.8	1828.0	1822.8	1822.8	1822.8	1821.7	1821.7	1822.8	1822.8
32.5°	1628.3	1626.2	1624.2	1626.2	1624.2	1626.2	1628.3	1629.3	1628.3	1631.4	1636.6
35°	1407.9	1406.8	1410.0	1405.8	1410.0	1406.8	1407.9	1407.9	1412.1	1416.2	1417.2
37.5°	1196.8	1194.7	1198.9	1194.7	1198.9	1194.7	1196.8	1195.8	1194.7	1196.8	1193.7
40°	996.1	998.2	998.2	1006.5	998.2	998.2	996.1	994.0	986.8	982.6	978.5
42.5°	803.8	810.0	807.9	814.2	807.9	810.0	803.8	799.6	791.3	784.0	777.8
45°	621.8	626.0	626.0	628.0	626.0	626.0	621.8	617.6	610.4	604.1	600.0
47.5°	477.2	477.2	477.2	478.3	477.2	477.2	477.2	470.0	467.9	463.8	458.5
50°	362.9	363.9	365.0	366.0	365.0	363.9	362.9	360.8	359.8	357.7	356.6
52.5°	278.7	279.7	277.6	279.7	277.6	279.7	278.7	279.7	276.6	276.6	275.5
55°	211.1	210.1	211.1	212.1	211.1	210.1	211.1	211.1	210.1	210.1	210.1
57.5°	154.9	152.8	152.8	152.8	152.8	152.8	154.9	153.9	157.0	154.9	156.0
60°	115.4	116.5	116.5	117.5	116.5	116.5	115.4	117.5	117.5	118.6	118.6
62.5°	85.3	88.4	86.3	88.4	86.3	88.4	85.3	86.3	86.3	87.4	88.4
65°	55.1	55.1	55.1	56.2	55.1	55.1	55.1	56.2	57.2	56.2	59.3
67.5°	37.4	38.5	40.6	39.5	40.6	38.5	37.4	38.5	38.5	41.6	40.6
70°	30.2	27.0	27.0	30.2	27.0	27.0	30.2	28.1	27.0	29.1	28.1
72.5°	17.7	15.6	17.7	17.7	17.7	15.6	17.7	15.6	16.6	16.6	18.7
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°	6.2	5.2	7.3	7.3	7.3	5.2	6.2	5.2	6.2	5.2	6.2
80°	3.1	4.2	3.1	5.2	3.1	4.2	3.1	5.2	3.1	4.2	4.2
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: P245933

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2151.3	2148.2	2149.3	2143.0	2143.0	2140.9	2142.0	2136.8	2134.7	2132.6	2135.7
5°	2182.5	2177.3	2173.1	2163.8	2158.6	2152.4	2149.3	2140.9	2133.6	2127.4	2126.4
7.5°	2207.5	2196.0	2188.8	2176.3	2166.9	2159.7	2149.3	2137.8	2128.5	2120.1	2113.9
10°	2217.9	2206.4	2195.0	2179.4	2169.0	2155.5	2145.1	2130.5	2118.1	2106.6	2099.3
12.5°	2218.9	2204.3	2193.9	2176.3	2162.7	2148.2	2136.8	2120.1	2105.6	2094.1	2082.7
15°	2209.6	2196.0	2183.5	2164.8	2151.3	2137.8	2124.3	2106.6	2093.1	2079.6	2071.3
17.5°	2188.8	2176.3	2161.7	2144.0	2131.6	2119.1	2104.5	2090.0	2074.4	2059.8	2049.4
20°	2161.7	2148.2	2135.7	2118.1	2107.7	2094.1	2080.6	2065.0	2052.5	2038.0	2026.6
22.5°	2121.2	2108.7	2097.3	2086.9	2070.2	2059.8	2050.5	2032.8	2020.3	2006.8	1994.3
25°	2062.9	2050.5	2041.1	2028.6	2021.3	2009.9	2000.5	1985.0	1973.5	1961.0	1950.6
27.5°	1967.3	1960.0	1954.8	1947.5	1941.3	1936.1	1930.9	1918.4	1910.1	1898.7	1888.3
30°	1823.8	1822.8	1819.6	1816.5	1820.7	1820.7	1820.7	1818.6	1811.3	1803.0	1795.7
32.5°	1639.7	1641.8	1646.0	1649.1	1657.4	1666.8	1675.1	1679.2	1679.2	1674.1	1670.9
35°	1420.4	1423.5	1429.7	1438.0	1448.4	1459.9	1478.6	1482.8	1485.8	1485.8	1481.7
37.5°	1192.6	1191.6	1197.8	1205.1	1211.4	1219.7	1233.2	1236.3	1241.5	1239.4	1235.3
40°	971.1	966.0	963.9	966.0	973.2	970.1	973.2	971.1	971.1	963.9	963.9
42.5°	766.3	760.1	755.9	752.8	752.8	745.5	740.3	735.2	732.0	726.8	725.8
45°	590.6	583.3	578.1	576.0	572.9	563.6	557.3	551.1	543.8	541.7	542.8
47.5°	458.5	451.3	449.2	444.0	438.8	433.6	429.4	422.2	421.1	416.9	421.1
50°	353.5	351.5	348.3	346.2	343.1	339.0	334.8	330.7	328.6	328.6	329.6
52.5°	274.5	275.5	272.4	269.3	267.2	267.2	262.0	261.0	261.0	256.8	261.0
55°	210.1	209.0	210.1	208.0	208.0	204.8	204.8	201.7	201.7	198.6	200.7
57.5°	153.9	156.0	153.9	154.9	157.0	153.9	152.8	149.7	151.8	149.7	150.8
60°	119.6	119.6	119.6	118.6	118.6	117.5	117.5	116.5	116.5	114.4	116.5
62.5°	88.4	89.4	89.4	89.4	90.5	89.4	88.4	89.4	88.4	88.4	89.4
65°	58.2	59.3	59.3	58.2	60.3	58.2	59.3	60.3	61.3	60.3	61.3
67.5°	39.5	39.5	40.6	41.6	40.6	41.6	42.6	41.6	42.6	44.7	42.6
70°	29.1	30.2	30.2	29.1	28.1	29.1	28.1	31.2	31.2	31.2	33.3
72.5°	18.7	18.7	17.7	17.7	17.7	17.7	17.7	20.8	18.7	17.7	19.8
75°	10.4	11.4	11.4	8.3	9.4	11.4	8.3	9.4	12.5	10.4	12.5
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	8.3	7.3	7.3	7.3	8.3
80°	5.2	4.2	4.2	3.1	4.2	4.2	4.2	6.2	5.2	5.2	6.2
82.5°	2.1	2.1	1.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2
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: P245933

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2127.4	2127.4	2126.4	2124.3	2120.1	2120.1	2119.1	2116.0	2113.9	2112.8	2112.8
5°	2117.0	2112.8	2108.7	2097.3	2097.3	2095.2	2089.0	2084.8	2082.7	2077.5	2075.4
7.5°	2107.7	2095.2	2087.9	2080.6	2071.3	2067.1	2059.8	2056.7	2049.4	2044.2	2041.1
10°	2084.8	2076.5	2067.1	2055.7	2048.4	2040.1	2031.7	2025.5	2016.2	2010.9	2006.8
12.5°	2069.2	2056.7	2048.4	2035.9	2023.4	2016.2	2004.7	1997.5	1988.1	1977.7	1971.4
15°	2054.6	2041.1	2029.7	2016.2	2002.6	1994.3	1980.8	1972.5	1959.0	1948.6	1941.3
17.5°	2032.8	2021.3	2008.9	1992.2	1979.8	1969.4	1954.8	1944.4	1931.9	1918.4	1911.1
20°	2009.9	1996.4	1983.9	1967.3	1954.8	1942.3	1927.8	1916.4	1901.8	1889.3	1881.0
22.5°	1979.8	1964.2	1953.8	1937.1	1922.6	1909.1	1895.6	1882.0	1868.5	1858.1	1848.7
25°	1936.1	1919.4	1908.0	1894.5	1881.0	1870.6	1854.0	1845.6	1832.1	1822.8	1813.4
27.5°	1873.7	1861.2	1850.8	1837.3	1825.9	1817.6	1805.1	1796.8	1785.3	1777.0	1769.7
30°	1782.2	1771.8	1762.4	1748.9	1740.6	1733.3	1721.9	1714.6	1706.3	1696.9	1694.9
32.5°	1659.5	1651.2	1641.8	1632.5	1626.2	1622.1	1612.7	1608.5	1600.2	1595.0	1589.8
35°	1474.4	1467.1	1462.0	1457.8	1455.7	1456.7	1454.7	1458.8	1460.9	1459.9	1460.9
37.5°	1232.2	1228.0	1230.1	1233.2	1243.6	1257.1	1269.6	1288.3	1300.8	1313.3	1324.7
40°	961.8	964.9	973.2	991.9	1019.0	1049.2	1077.2	1112.6	1147.9	1172.9	1195.8
42.5°	725.8	735.2	755.9	783.0	823.5	868.2	911.9	963.9	1006.5	1048.1	1077.2
45°	545.9	558.4	585.4	622.8	667.5	719.5	774.7	832.9	883.8	926.5	958.7
47.5°	425.3	436.7	463.8	503.3	558.4	612.4	669.6	729.9	783.0	824.6	852.6
50°	335.8	350.4	374.3	415.9	471.0	528.2	587.5	646.7	696.7	732.0	757.0
52.5°	264.1	277.6	300.5	344.2	400.3	457.5	512.6	570.8	614.5	648.8	665.5
55°	204.8	217.3	241.2	277.6	330.7	386.8	441.9	491.8	532.4	557.3	572.9
57.5°	156.0	165.3	182.0	218.4	266.2	318.2	365.0	414.9	446.1	463.8	474.1
60°	118.6	125.8	143.5	171.6	215.2	260.0	299.5	336.9	361.9	376.4	386.8
62.5°	89.4	97.8	110.2	134.1	167.4	203.8	237.1	265.1	285.9	295.3	302.6
65°	61.3	67.6	77.0	95.7	123.7	149.7	175.7	196.5	210.1	220.5	224.6
67.5°	45.8	49.9	55.1	69.7	89.4	110.2	127.9	142.4	157.0	161.2	168.5
70°	34.3	37.4	42.6	53.0	64.5	79.0	93.6	101.9	112.3	119.6	121.7
72.5°	21.8	22.9	28.1	34.3	43.7	53.0	62.4	69.7	75.9	80.1	82.1
75°	12.5	18.7	18.7	25.0	31.2	35.4	41.6	46.8	49.9	53.0	53.0
77.5°	8.3	11.4	12.5	15.6	18.7	23.9	29.1	32.2	35.4	36.4	36.4
80°	7.3	8.3	8.3	11.4	13.5	17.7	20.8	21.8	23.9	25.0	27.0
82.5°	3.1	4.2	5.2	8.3	9.4	9.4	12.5	13.5	15.6	16.6	16.6
85°	1.0	2.1	2.1	3.1	5.2	6.2	7.3	8.3	9.4	9.4	10.4
87.5°	1.0	1.0	0.0	1.0	2.1	2.1	4.2	4.2	4.2	6.2	6.2
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: P245933

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2110.8	2111.8	2107.7	2106.6	2104.5	2105.6	2107.7
5°	2072.3	2073.3	2069.2	2065.0	2065.0	2064.0	2065.0
7.5°	2035.9	2037.0	2030.7	2028.6	2024.5	2025.5	2025.5
10°	1999.5	1999.5	1990.2	1989.1	1986.0	1985.0	1985.0
12.5°	1964.2	1961.0	1953.8	1949.6	1951.7	1945.5	1945.5
15°	1933.0	1927.8	1918.4	1915.3	1910.1	1908.0	1908.0
17.5°	1900.7	1896.6	1888.3	1882.0	1875.8	1874.8	1875.8
20°	1869.5	1865.4	1855.0	1850.8	1845.6	1845.6	1843.6
22.5°	1838.3	1834.2	1824.8	1821.7	1814.4	1814.4	1815.5
25°	1806.1	1803.0	1792.6	1790.5	1789.5	1785.3	1787.4
27.5°	1762.4	1760.4	1752.0	1748.9	1744.8	1743.7	1745.8
30°	1682.4	1679.2	1673.0	1669.9	1662.6	1663.7	1665.7
32.5°	1582.6	1578.4	1570.1	1566.9	1560.7	1558.6	1559.7
35°	1457.8	1454.7	1447.4	1447.4	1441.2	1439.1	1441.2
37.5°	1331.0	1334.0	1331.0	1334.0	1331.0	1329.9	1331.0
40°	1211.4	1222.8	1224.9	1236.3	1232.2	1238.4	1237.4
42.5°	1097.0	1115.7	1123.0	1132.3	1130.3	1134.4	1137.5
45°	981.5	997.2	1004.4	1010.7	1011.7	1013.8	1014.8
47.5°	872.4	884.9	885.9	893.2	892.1	892.1	895.3
50°	770.5	778.8	780.9	786.1	781.9	779.8	780.9
52.5°	675.9	684.2	682.1	684.2	679.0	676.9	677.9
55°	579.2	583.3	583.3	583.3	577.1	577.1	577.1
57.5°	480.4	481.4	479.3	480.4	479.3	473.1	472.1
60°	389.9	389.9	388.9	389.9	386.8	383.7	383.7
62.5°	304.6	306.7	310.9	306.7	304.6	306.7	303.6
65°	227.7	231.9	230.8	232.9	231.9	231.9	229.8
67.5°	171.6	172.6	173.6	174.7	174.7	174.7	174.7
70°	125.8	129.0	127.9	127.9	127.9	127.9	134.1
72.5°	84.2	88.4	87.4	89.4	89.4	91.5	89.4
75°	57.2	61.3	59.3	62.4	61.3	59.3	64.5
77.5°	38.5	40.6	41.6	42.6	41.6	40.6	41.6
80°	27.0	29.1	28.1	29.1	29.1	29.1	30.2
82.5°	16.6	19.8	18.7	19.8	18.7	19.8	19.8
85°	11.4	12.5	10.4	12.5	11.4	11.4	13.5
87.5°	7.3	6.2	6.2	7.3	6.2	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)