

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: P245957

Luminaire Tested: **LD8B50D010 ER8B50930 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245957  
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 ER8B50930 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3474.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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

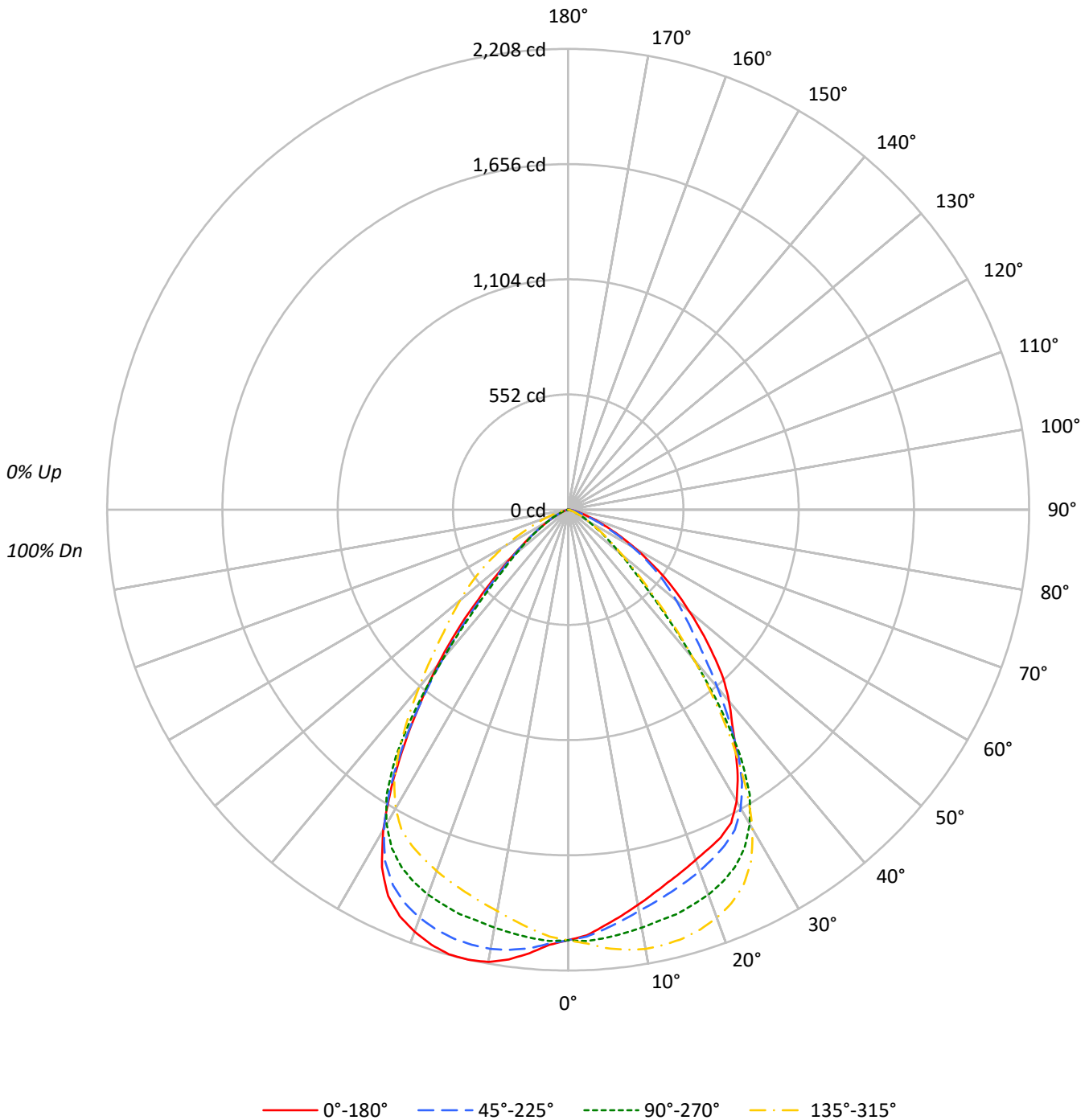
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	196.3	5.7
10°-20°	568.5	16.4
20°-30°	860.8	24.8
30°-40°	862.7	24.8
40°-50°	541.7	15.6
50°-60°	288.7	8.3
60°-70°	118.7	3.4
70°-80°	31.4	0.9
80°-90°	5.3	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°	1625.5	46.8
0°-40°	2488.2	71.6
0°-60°	3318.6	95.5
0°-90°	3474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2062	2062	2062	2062	2062	
5°	2000	2059	2133	2059	2000	189
15°	1848	2006	2205	2006	1848	523
25°	1731	1889	2041	1889	1731	794
35°	1396	1435	1362	1435	1396	874
45°	983	526	608	526	983	756
55°	559	194	206	194	559	498
65°	222	59	54	59	222	231
75°	62	12	10	12	62	71
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°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2041.2	2039.2	2038.2	2040.2	2041.2	2045.3	2044.3	2046.3	2046.3	2047.3	2049.3
5°	2000.0	1999.0	2000.0	2000.0	2004.0	2008.0	2007.0	2010.1	2012.1	2017.1	2019.0
7.5°	1961.8	1961.8	1960.6	1964.7	1966.7	1972.7	1971.7	1976.8	1979.8	1984.8	1991.9
10°	1922.4	1922.4	1923.4	1926.4	1927.4	1936.5	1936.5	1943.6	1947.6	1952.7	1961.8
12.5°	1884.2	1884.2	1890.2	1888.2	1892.2	1899.2	1902.2	1909.3	1915.3	1925.4	1934.5
15°	1847.9	1847.9	1849.9	1854.9	1857.9	1867.0	1872.1	1880.1	1887.2	1897.3	1910.4
17.5°	1816.7	1815.7	1816.7	1822.7	1828.8	1836.9	1840.8	1850.9	1857.9	1871.1	1883.2
20°	1785.4	1787.5	1787.5	1792.5	1796.5	1806.6	1810.6	1821.7	1829.8	1841.8	1855.9
22.5°	1758.3	1757.3	1757.3	1764.3	1767.4	1776.3	1780.4	1790.5	1799.5	1809.6	1822.7
25°	1731.0	1729.0	1733.1	1734.1	1736.1	1746.2	1749.2	1756.3	1765.4	1774.4	1787.5
27.5°	1690.8	1688.8	1689.8	1693.8	1696.9	1704.9	1706.9	1714.0	1721.0	1729.0	1740.1
30°	1613.2	1611.2	1610.2	1617.3	1620.3	1626.3	1629.4	1641.5	1643.5	1652.6	1660.5
32.5°	1510.5	1509.5	1511.6	1517.6	1520.6	1528.7	1532.7	1539.7	1544.7	1549.8	1557.9
35°	1395.8	1393.7	1395.8	1401.8	1401.8	1408.9	1411.9	1414.8	1413.9	1414.8	1412.9
37.5°	1289.0	1288.0	1289.0	1292.0	1289.0	1292.0	1289.0	1283.0	1271.9	1259.8	1247.7
40°	1198.3	1199.4	1193.3	1197.3	1186.2	1184.2	1173.2	1158.1	1135.9	1111.8	1077.5
42.5°	1101.7	1098.7	1094.7	1096.7	1087.6	1080.5	1062.4	1043.3	1015.1	974.8	933.5
45°	982.9	981.9	979.9	978.9	972.8	965.7	950.6	928.5	897.2	856.0	806.7
47.5°	867.1	864.1	864.1	865.1	858.0	857.0	844.9	825.7	798.6	758.2	706.9
50°	756.2	755.2	757.3	761.3	756.2	754.3	746.2	733.1	708.9	674.7	626.3
52.5°	656.6	655.6	657.6	662.6	660.6	662.6	654.6	644.5	628.4	595.1	552.9
55°	558.9	558.9	558.9	564.9	564.9	564.9	560.9	554.9	539.8	515.5	476.3
57.5°	457.1	458.2	464.2	465.2	464.2	466.2	465.2	459.2	449.2	432.0	401.8
60°	371.6	371.6	374.6	377.7	376.7	377.7	377.7	374.6	364.5	350.4	326.3
62.5°	294.0	297.1	295.0	297.1	301.1	297.1	295.0	293.0	286.0	276.9	256.8
65°	222.5	224.5	224.5	225.5	223.5	224.5	220.5	217.6	213.6	203.5	190.3
67.5°	169.2	169.2	169.2	169.2	168.2	167.1	166.1	163.1	156.2	152.1	138.0
70°	129.9	123.9	123.9	123.9	123.9	124.9	121.9	117.8	115.8	108.7	98.6
72.5°	86.5	88.7	86.5	86.5	84.6	85.6	81.6	79.6	77.6	73.5	67.5
75°	62.4	57.4	59.4	60.4	57.4	59.4	55.4	51.3	51.3	48.3	45.3
77.5°	40.2	39.3	40.2	41.3	40.2	39.3	37.2	35.2	35.2	34.2	31.2
80°	29.3	28.1	28.1	28.1	27.2	28.1	26.2	26.2	24.2	23.2	21.2
82.5°	19.2	19.2	18.2	19.2	18.2	19.2	16.1	16.1	16.1	15.1	13.1
85°	13.1	11.1	11.1	12.1	10.1	12.1	11.1	10.1	9.1	9.1	8.1
87.5°	6.1	7.1	6.1	7.1	6.1	6.1	7.1	6.1	6.1	4.0	4.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2052.3	2053.3	2053.3	2057.4	2059.4	2060.4	2060.4	2068.5	2065.4	2067.5	2069.5
5°	2023.2	2029.1	2031.1	2031.1	2042.2	2046.3	2050.3	2059.4	2060.4	2066.5	2073.5
7.5°	1994.9	2002.0	2006.0	2015.1	2022.1	2029.1	2041.2	2047.3	2053.3	2061.4	2070.5
10°	1967.7	1975.8	1983.8	1990.9	2002.0	2011.1	2019.0	2033.2	2040.2	2051.3	2063.4
12.5°	1941.6	1952.7	1959.7	1971.7	1983.8	1991.9	2004.0	2017.1	2028.1	2039.2	2053.3
15°	1918.4	1931.5	1939.6	1952.7	1965.8	1976.8	1989.9	2006.0	2014.1	2027.1	2040.2
17.5°	1893.1	1907.4	1917.4	1929.5	1945.6	1957.6	1968.7	1984.8	1994.9	2009.1	2024.1
20°	1867.0	1881.2	1893.1	1905.3	1921.4	1933.5	1946.6	1962.8	1973.7	1987.9	2000.0
22.5°	1835.9	1849.0	1862.0	1876.1	1892.2	1902.2	1917.4	1931.5	1943.6	1956.7	1968.7
25°	1795.5	1811.6	1821.7	1834.7	1847.9	1859.0	1875.1	1889.2	1899.2	1911.3	1922.4
27.5°	1748.2	1760.3	1768.4	1779.4	1792.5	1802.6	1814.7	1828.8	1838.9	1849.9	1857.9
30°	1667.6	1678.7	1685.8	1693.8	1706.9	1716.0	1726.1	1739.1	1746.2	1754.3	1761.3
32.5°	1561.9	1571.0	1575.0	1581.1	1590.1	1599.1	1607.2	1618.3	1621.3	1626.3	1626.3
35°	1408.9	1410.9	1409.9	1411.9	1415.9	1420.9	1427.9	1435.0	1439.0	1439.0	1436.0
37.5°	1229.6	1217.5	1204.4	1194.3	1191.3	1189.3	1193.3	1196.3	1200.4	1202.4	1197.3
40°	1043.3	1016.1	986.9	960.7	942.5	934.6	931.6	933.5	933.5	940.5	940.5
42.5°	883.1	840.9	797.6	758.2	732.1	711.9	702.9	702.9	703.9	708.9	711.9
45°	750.3	696.8	646.5	603.2	567.0	540.8	528.7	525.6	524.6	526.6	533.7
47.5°	648.5	593.1	540.8	487.4	449.2	423.0	411.9	407.8	403.8	407.8	408.8
50°	569.0	511.6	456.2	402.8	362.5	339.3	325.3	319.3	318.3	318.3	320.3
52.5°	496.5	443.1	387.8	333.4	291.0	268.9	255.8	252.8	248.7	252.8	252.8
55°	428.0	374.6	320.3	268.9	233.6	210.5	198.4	194.4	192.4	195.4	195.4
57.5°	353.5	308.2	257.8	211.5	176.2	160.1	151.0	146.1	144.9	147.1	144.9
60°	290.0	251.8	208.5	166.1	139.0	121.9	114.8	112.8	110.8	112.8	112.8
62.5°	229.6	197.4	162.1	129.9	106.7	94.7	86.5	86.5	85.6	85.6	86.5
65°	170.2	144.9	119.8	92.6	74.5	65.5	59.4	59.4	58.4	59.4	58.4
67.5°	123.9	106.7	86.5	67.5	53.4	48.3	44.3	41.3	43.3	41.3	40.2
70°	90.7	76.6	62.4	51.3	41.3	36.3	33.3	32.2	30.3	30.3	30.3
72.5°	60.4	51.3	42.3	33.3	27.2	22.1	21.2	19.2	17.2	18.2	20.2
75°	40.2	34.2	30.3	24.2	18.2	18.2	12.1	12.1	10.1	12.1	9.1
77.5°	28.1	23.2	18.2	15.1	12.1	11.1	8.1	8.1	7.1	7.1	7.1
80°	20.2	17.2	13.1	11.1	8.1	8.1	7.1	6.1	5.0	5.0	6.1
82.5°	12.1	9.1	9.1	8.1	5.0	4.0	3.0	4.0	2.0	2.0	2.0
85°	7.1	6.1	5.0	3.0	2.0	2.0	1.0	0.0	1.0	1.0	0.0
87.5°	4.0	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°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2074.5	2073.5	2075.5	2075.5	2081.6	2080.5	2083.5	2083.5	2081.6	2082.5	2086.5
5°	2081.6	2084.6	2090.6	2095.6	2104.7	2108.7	2113.8	2118.8	2119.8	2122.8	2125.9
7.5°	2081.6	2091.6	2098.6	2107.7	2119.8	2126.9	2137.9	2146.9	2151.0	2156.0	2162.1
10°	2077.4	2087.5	2100.6	2110.7	2125.9	2137.0	2147.9	2162.1	2168.1	2176.2	2184.3
12.5°	2069.5	2080.5	2094.6	2107.7	2124.9	2134.8	2149.0	2162.1	2171.2	2182.3	2191.3
15°	2057.4	2070.5	2083.5	2096.6	2114.8	2126.9	2140.0	2155.0	2164.1	2176.2	2184.3
17.5°	2038.2	2052.3	2064.4	2076.5	2093.6	2107.7	2119.8	2133.9	2143.0	2153.0	2164.1
20°	2015.1	2028.1	2041.2	2051.3	2068.5	2080.5	2093.6	2106.7	2113.8	2115.8	2132.9
22.5°	1985.9	1994.9	2005.0	2021.2	2031.1	2042.2	2054.3	2066.5	2073.5	2084.6	2090.6
25°	1937.5	1946.6	1957.6	1964.7	1976.8	1985.9	1998.0	2011.1	2015.1	2023.2	2029.1
27.5°	1870.1	1875.1	1880.1	1886.2	1893.1	1898.3	1905.3	1911.3	1915.3	1919.4	1923.4
30°	1763.3	1763.3	1763.3	1759.3	1762.3	1765.4	1766.4	1765.4	1765.4	1764.3	1764.3
32.5°	1622.3	1614.2	1605.2	1597.2	1594.2	1590.1	1588.1	1585.1	1580.0	1577.0	1578.0
35°	1432.0	1413.9	1402.8	1392.7	1384.7	1378.6	1375.6	1372.6	1371.5	1367.5	1363.5
37.5°	1194.3	1181.2	1173.2	1167.2	1160.1	1154.1	1155.1	1156.1	1159.1	1157.1	1158.1
40°	942.5	939.5	942.5	935.5	933.5	935.5	940.5	947.6	951.6	955.7	962.7
42.5°	717.0	722.0	729.1	729.1	732.1	736.2	742.2	753.3	759.3	766.3	774.4
45°	539.8	545.8	554.9	557.9	559.9	564.9	572.0	581.0	585.0	591.1	598.2
47.5°	415.9	419.9	425.0	430.0	435.1	437.1	444.1	444.1	449.2	453.2	455.1
50°	324.3	328.2	332.3	335.3	337.3	340.3	342.4	345.4	346.4	348.4	349.4
52.5°	253.8	258.8	258.8	260.9	263.9	266.9	265.9	266.9	267.8	267.8	270.8
55°	198.4	198.4	201.4	201.4	203.5	202.5	203.5	203.5	203.5	203.5	204.5
57.5°	148.0	149.1	152.1	150.1	149.1	151.0	149.1	151.0	150.1	152.1	149.1
60°	113.8	113.8	114.8	114.8	115.8	115.8	115.8	114.8	114.8	113.8	113.8
62.5°	85.6	86.5	87.7	86.5	86.5	86.5	85.6	85.6	84.6	83.5	83.5
65°	57.4	56.4	58.4	56.4	57.4	57.4	56.4	57.4	54.4	55.4	54.4
67.5°	41.3	40.2	39.3	40.2	39.3	38.2	38.2	39.3	40.2	37.2	37.2
70°	27.2	28.1	27.2	28.1	29.3	29.3	28.1	27.2	28.1	26.2	27.2
72.5°	17.2	17.2	17.2	17.2	17.2	18.2	18.2	18.2	16.1	16.1	15.1
75°	8.1	11.1	9.1	8.1	11.1	11.1	10.1	10.1	9.1	9.1	9.1
77.5°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.0	6.1	5.0
80°	4.0	4.0	4.0	3.0	4.0	4.0	5.0	4.0	4.0	3.0	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: P245957

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2085.5	2084.6	2085.5	2086.5	2085.5	2084.6	2085.5	2086.5	2082.5	2081.6	2083.5
5°	2129.9	2129.9	2131.8	2132.9	2131.8	2129.9	2129.9	2125.9	2122.8	2119.8	2118.8
7.5°	2168.1	2170.1	2172.2	2173.2	2172.2	2170.1	2168.1	2162.1	2156.0	2151.0	2146.9
10°	2191.3	2194.4	2198.4	2200.3	2198.4	2194.4	2191.3	2184.3	2176.2	2168.1	2162.1
12.5°	2201.4	2204.4	2209.4	2208.4	2209.4	2204.4	2201.4	2191.3	2182.3	2171.2	2162.1
15°	2194.4	2198.4	2203.3	2205.3	2203.3	2198.4	2194.4	2184.3	2176.2	2164.1	2155.0
17.5°	2172.2	2178.2	2181.2	2184.3	2181.2	2178.2	2172.2	2164.1	2153.0	2143.0	2133.9
20°	2141.9	2146.0	2150.0	2151.0	2150.0	2146.0	2141.9	2132.9	2115.8	2113.8	2106.7
22.5°	2098.6	2101.7	2110.7	2107.7	2110.7	2101.7	2098.6	2090.6	2084.6	2073.5	2066.5
25°	2036.2	2039.2	2040.2	2041.2	2040.2	2039.2	2036.2	2029.1	2023.2	2015.1	2011.1
27.5°	1928.5	1928.5	1930.5	1931.5	1930.5	1928.5	1928.5	1923.4	1919.4	1915.3	1911.3
30°	1765.4	1765.4	1765.4	1770.4	1765.4	1765.4	1765.4	1764.3	1764.3	1765.4	1765.4
32.5°	1577.0	1575.0	1573.0	1575.0	1573.0	1575.0	1577.0	1578.0	1577.0	1580.0	1585.1
35°	1363.5	1362.5	1365.5	1361.6	1365.5	1362.5	1363.5	1363.5	1367.5	1371.5	1372.6
37.5°	1159.1	1157.1	1161.1	1157.1	1161.1	1157.1	1159.1	1158.1	1157.1	1159.1	1156.1
40°	964.7	966.8	966.8	974.8	966.8	966.8	964.7	962.7	955.7	951.6	947.6
42.5°	778.4	784.5	782.5	788.5	782.5	784.5	778.4	774.4	766.3	759.3	753.3
45°	602.2	606.2	606.2	608.3	606.2	606.2	602.2	598.2	591.1	585.0	581.0
47.5°	462.2	462.2	462.2	463.2	462.2	462.2	462.2	455.1	453.2	449.2	444.1
50°	351.4	352.4	353.5	354.5	353.5	352.4	351.4	349.4	348.4	346.4	345.4
52.5°	269.9	270.8	268.9	270.8	268.9	270.8	269.9	270.8	267.8	267.8	266.9
55°	204.5	203.5	204.5	205.5	204.5	203.5	204.5	204.5	203.5	203.5	203.5
57.5°	150.1	148.0	148.0	148.0	148.0	148.0	150.1	149.1	152.1	150.1	151.0
60°	111.8	112.8	112.8	113.8	112.8	112.8	111.8	113.8	113.8	114.8	114.8
62.5°	82.6	85.6	83.5	85.6	83.5	85.6	82.6	83.5	83.5	84.6	85.6
65°	53.4	53.4	53.4	54.4	53.4	53.4	53.4	54.4	55.4	54.4	57.4
67.5°	36.3	37.2	39.3	38.2	39.3	37.2	36.3	37.2	37.2	40.2	39.3
70°	29.3	26.2	26.2	29.3	26.2	26.2	29.3	27.2	26.2	28.1	27.2
72.5°	17.2	15.1	17.2	17.2	17.2	15.1	17.2	15.1	16.1	16.1	18.2
75°	9.1	8.1	7.1	10.1	7.1	8.1	9.1	9.1	9.1	9.1	10.1
77.5°	6.1	5.0	7.1	7.1	7.1	5.0	6.1	5.0	6.1	5.0	6.1
80°	3.0	4.0	3.0	5.0	3.0	4.0	3.0	5.0	3.0	4.0	4.0
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: P245957

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2083.5	2080.5	2081.6	2075.5	2075.5	2073.5	2074.5	2069.5	2067.5	2065.4	2068.5
5°	2113.8	2108.7	2104.7	2095.6	2090.6	2084.6	2081.6	2073.5	2066.5	2060.4	2059.4
7.5°	2137.9	2126.9	2119.8	2107.7	2098.6	2091.6	2081.6	2070.5	2061.4	2053.3	2047.3
10°	2147.9	2137.0	2125.9	2110.7	2100.6	2087.5	2077.4	2063.4	2051.3	2040.2	2033.2
12.5°	2149.0	2134.8	2124.9	2107.7	2094.6	2080.5	2069.5	2053.3	2039.2	2028.1	2017.1
15°	2140.0	2126.9	2114.8	2096.6	2083.5	2070.5	2057.4	2040.2	2027.1	2014.1	2006.0
17.5°	2119.8	2107.7	2093.6	2076.5	2064.4	2052.3	2038.2	2024.1	2009.1	1994.9	1984.8
20°	2093.6	2080.5	2068.5	2051.3	2041.2	2028.1	2015.1	2000.0	1987.9	1973.7	1962.8
22.5°	2054.3	2042.2	2031.1	2021.2	2005.0	1994.9	1985.9	1968.7	1956.7	1943.6	1931.5
25°	1998.0	1985.9	1976.8	1964.7	1957.6	1946.6	1937.5	1922.4	1911.3	1899.2	1889.2
27.5°	1905.3	1898.3	1893.1	1886.2	1880.1	1875.1	1870.1	1857.9	1849.9	1838.9	1828.8
30°	1766.4	1765.4	1762.3	1759.3	1763.3	1763.3	1763.3	1761.3	1754.3	1746.2	1739.1
32.5°	1588.1	1590.1	1594.2	1597.2	1605.2	1614.2	1622.3	1626.3	1626.3	1621.3	1618.3
35°	1375.6	1378.6	1384.7	1392.7	1402.8	1413.9	1432.0	1436.0	1439.0	1439.0	1435.0
37.5°	1155.1	1154.1	1160.1	1167.2	1173.2	1181.2	1194.3	1197.3	1202.4	1200.4	1196.3
40°	940.5	935.5	933.5	935.5	942.5	939.5	942.5	940.5	940.5	933.5	933.5
42.5°	742.2	736.2	732.1	729.1	729.1	722.0	717.0	711.9	708.9	703.9	702.9
45°	572.0	564.9	559.9	557.9	554.9	545.8	539.8	533.7	526.6	524.6	525.6
47.5°	444.1	437.1	435.1	430.0	425.0	419.9	415.9	408.8	407.8	403.8	407.8
50°	342.4	340.3	337.3	335.3	332.3	328.2	324.3	320.3	318.3	318.3	319.3
52.5°	265.9	266.9	263.9	260.9	258.8	258.8	253.8	252.8	252.8	248.7	252.8
55°	203.5	202.5	203.5	201.4	201.4	198.4	198.4	195.4	195.4	192.4	194.4
57.5°	149.1	151.0	149.1	150.1	152.1	149.1	148.0	144.9	147.1	144.9	146.1
60°	115.8	115.8	115.8	114.8	114.8	113.8	113.8	112.8	112.8	110.8	112.8
62.5°	85.6	86.5	86.5	86.5	87.7	86.5	85.6	86.5	85.6	85.6	86.5
65°	56.4	57.4	57.4	56.4	58.4	56.4	57.4	58.4	59.4	58.4	59.4
67.5°	38.2	38.2	39.3	40.2	39.3	40.2	41.3	40.2	41.3	43.3	41.3
70°	28.1	29.3	29.3	28.1	27.2	28.1	27.2	30.3	30.3	30.3	32.2
72.5°	18.2	18.2	17.2	17.2	17.2	17.2	17.2	20.2	18.2	17.2	19.2
75°	10.1	11.1	11.1	8.1	9.1	11.1	8.1	9.1	12.1	10.1	12.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	8.1	7.1	7.1	7.1	8.1
80°	5.0	4.0	4.0	3.0	4.0	4.0	4.0	6.1	5.0	5.0	6.1
82.5°	2.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0
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: P245957

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2060.4	2060.4	2059.4	2057.4	2053.3	2053.3	2052.3	2049.3	2047.3	2046.3	2046.3
5°	2050.3	2046.3	2042.2	2031.1	2031.1	2029.1	2023.2	2019.0	2017.1	2012.1	2010.1
7.5°	2041.2	2029.1	2022.1	2015.1	2006.0	2002.0	1994.9	1991.9	1984.8	1979.8	1976.8
10°	2019.0	2011.1	2002.0	1990.9	1983.8	1975.8	1967.7	1961.8	1952.7	1947.6	1943.6
12.5°	2004.0	1991.9	1983.8	1971.7	1959.7	1952.7	1941.6	1934.5	1925.4	1915.3	1909.3
15°	1989.9	1976.8	1965.8	1952.7	1939.6	1931.5	1918.4	1910.4	1897.3	1887.2	1880.1
17.5°	1968.7	1957.6	1945.6	1929.5	1917.4	1907.4	1893.1	1883.2	1871.1	1857.9	1850.9
20°	1946.6	1933.5	1921.4	1905.3	1893.1	1881.2	1867.0	1855.9	1841.8	1829.8	1821.7
22.5°	1917.4	1902.2	1892.2	1876.1	1862.0	1849.0	1835.9	1822.7	1809.6	1799.5	1790.5
25°	1875.1	1859.0	1847.9	1834.7	1821.7	1811.6	1795.5	1787.5	1774.4	1765.4	1756.3
27.5°	1814.7	1802.6	1792.5	1779.4	1768.4	1760.3	1748.2	1740.1	1729.0	1721.0	1714.0
30°	1726.1	1716.0	1706.9	1693.8	1685.8	1678.7	1667.6	1660.5	1652.6	1643.5	1641.5
32.5°	1607.2	1599.1	1590.1	1581.1	1575.0	1571.0	1561.9	1557.9	1549.8	1544.7	1539.7
35°	1427.9	1420.9	1415.9	1411.9	1409.9	1410.9	1408.9	1412.9	1414.8	1413.9	1414.8
37.5°	1193.3	1189.3	1191.3	1194.3	1204.4	1217.5	1229.6	1247.7	1259.8	1271.9	1283.0
40°	931.6	934.6	942.5	960.7	986.9	1016.1	1043.3	1077.5	1111.8	1135.9	1158.1
42.5°	702.9	711.9	732.1	758.2	797.6	840.9	883.1	933.5	974.8	1015.1	1043.3
45°	528.7	540.8	567.0	603.2	646.5	696.8	750.3	806.7	856.0	897.2	928.5
47.5°	411.9	423.0	449.2	487.4	540.8	593.1	648.5	706.9	758.2	798.6	825.7
50°	325.3	339.3	362.5	402.8	456.2	511.6	569.0	626.3	674.7	708.9	733.1
52.5°	255.8	268.9	291.0	333.4	387.8	443.1	496.5	552.9	595.1	628.4	644.5
55°	198.4	210.5	233.6	268.9	320.3	374.6	428.0	476.3	515.5	539.8	554.9
57.5°	151.0	160.1	176.2	211.5	257.8	308.2	353.5	401.8	432.0	449.2	459.2
60°	114.8	121.9	139.0	166.1	208.5	251.8	290.0	326.3	350.4	364.5	374.6
62.5°	86.5	94.7	106.7	129.9	162.1	197.4	229.6	256.8	276.9	286.0	293.0
65°	59.4	65.5	74.5	92.6	119.8	144.9	170.2	190.3	203.5	213.6	217.6
67.5°	44.3	48.3	53.4	67.5	86.5	106.7	123.9	138.0	152.1	156.2	163.1
70°	33.3	36.3	41.3	51.3	62.4	76.6	90.7	98.6	108.7	115.8	117.8
72.5°	21.2	22.1	27.2	33.3	42.3	51.3	60.4	67.5	73.5	77.6	79.6
75°	12.1	18.2	18.2	24.2	30.3	34.2	40.2	45.3	48.3	51.3	51.3
77.5°	8.1	11.1	12.1	15.1	18.2	23.2	28.1	31.2	34.2	35.2	35.2
80°	7.1	8.1	8.1	11.1	13.1	17.2	20.2	21.2	23.2	24.2	26.2
82.5°	3.0	4.0	5.0	8.1	9.1	9.1	12.1	13.1	15.1	16.1	16.1
85°	1.0	2.0	2.0	3.0	5.0	6.1	7.1	8.1	9.1	9.1	10.1
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	4.0	4.0	4.0	6.1	6.1
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: P245957

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2044.3	2045.3	2041.2	2040.2	2038.2	2039.2	2041.2
5°	2007.0	2008.0	2004.0	2000.0	2000.0	1999.0	2000.0
7.5°	1971.7	1972.7	1966.7	1964.7	1960.6	1961.8	1961.8
10°	1936.5	1936.5	1927.4	1926.4	1923.4	1922.4	1922.4
12.5°	1902.2	1899.2	1892.2	1888.2	1890.2	1884.2	1884.2
15°	1872.1	1867.0	1857.9	1854.9	1849.9	1847.9	1847.9
17.5°	1840.8	1836.9	1828.8	1822.7	1816.7	1815.7	1816.7
20°	1810.6	1806.6	1796.5	1792.5	1787.5	1787.5	1785.4
22.5°	1780.4	1776.3	1767.4	1764.3	1757.3	1757.3	1758.3
25°	1749.2	1746.2	1736.1	1734.1	1733.1	1729.0	1731.0
27.5°	1706.9	1704.9	1696.9	1693.8	1689.8	1688.8	1690.8
30°	1629.4	1626.3	1620.3	1617.3	1610.2	1611.2	1613.2
32.5°	1532.7	1528.7	1520.6	1517.6	1511.6	1509.5	1510.5
35°	1411.9	1408.9	1401.8	1401.8	1395.8	1393.7	1395.8
37.5°	1289.0	1292.0	1289.0	1292.0	1289.0	1288.0	1289.0
40°	1173.2	1184.2	1186.2	1197.3	1193.3	1199.4	1198.3
42.5°	1062.4	1080.5	1087.6	1096.7	1094.7	1098.7	1101.7
45°	950.6	965.7	972.8	978.9	979.9	981.9	982.9
47.5°	844.9	857.0	858.0	865.1	864.1	864.1	867.1
50°	746.2	754.3	756.2	761.3	757.3	755.2	756.2
52.5°	654.6	662.6	660.6	662.6	657.6	655.6	656.6
55°	560.9	564.9	564.9	564.9	558.9	558.9	558.9
57.5°	465.2	466.2	464.2	465.2	464.2	458.2	457.1
60°	377.7	377.7	376.7	377.7	374.6	371.6	371.6
62.5°	295.0	297.1	301.1	297.1	295.0	297.1	294.0
65°	220.5	224.5	223.5	225.5	224.5	224.5	222.5
67.5°	166.1	167.1	168.2	169.2	169.2	169.2	169.2
70°	121.9	124.9	123.9	123.9	123.9	123.9	129.9
72.5°	81.6	85.6	84.6	86.5	86.5	88.7	86.5
75°	55.4	59.4	57.4	60.4	59.4	57.4	62.4
77.5°	37.2	39.3	40.2	41.3	40.2	39.3	40.2
80°	26.2	28.1	27.2	28.1	28.1	28.1	29.3
82.5°	16.1	19.2	18.2	19.2	18.2	19.2	19.2
85°	11.1	12.1	10.1	12.1	11.1	11.1	13.1
87.5°	7.1	6.1	6.1	7.1	6.1	7.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)