

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: P246004

Luminaire Tested: **LD8B40D010 ER8B40935 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246004  
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 ER8B40935 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3713.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

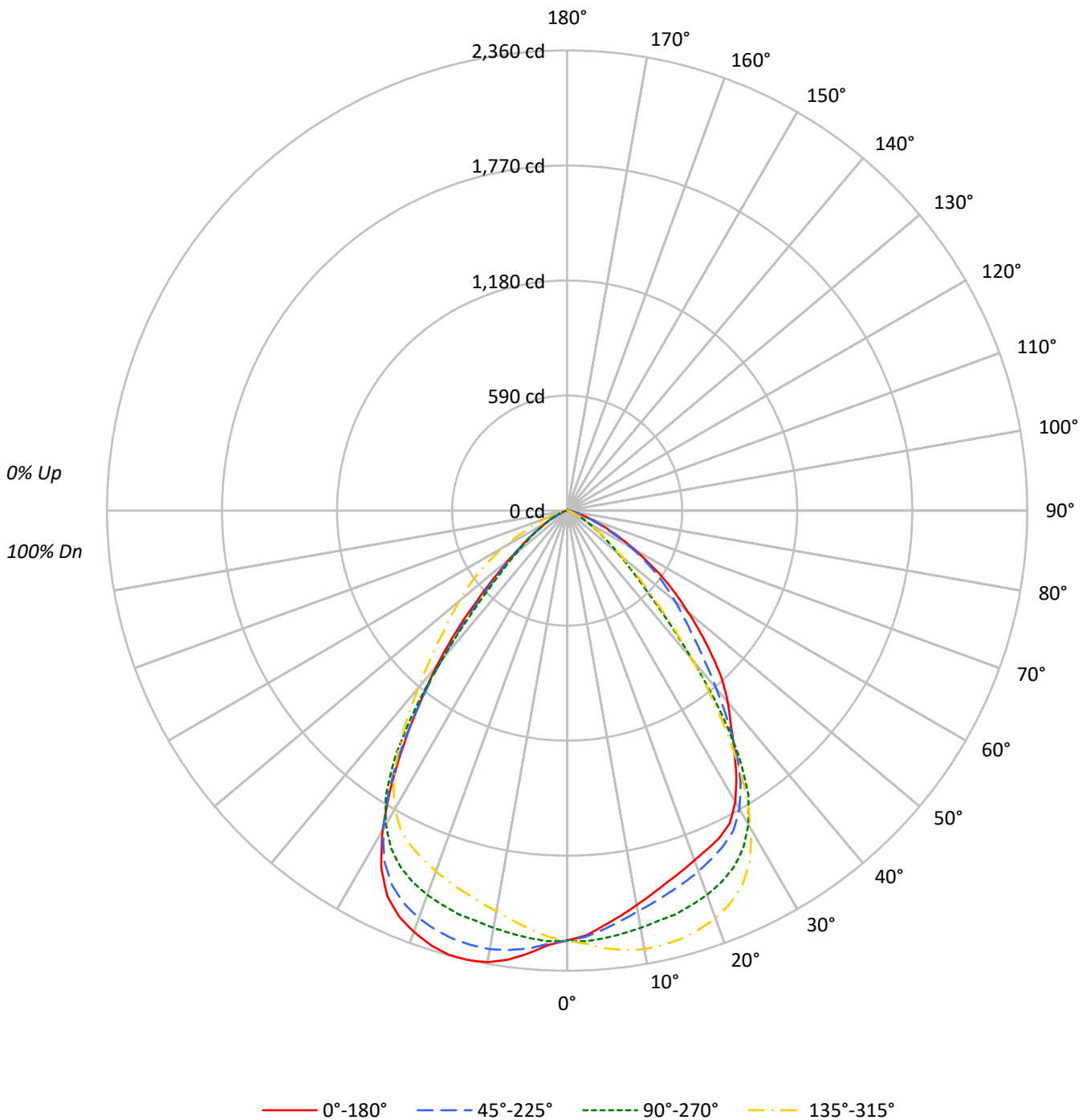
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	67972	67972	67972	67972
5°	66167	68133	70563	68133
10°	64337	68044	73636	68044
15°	63050	68445	75248	68445
20°	62621	68837	75442	68837
25°	62951	68701	74230	68701
30°	61393	66186	67375	66186
35°	56158	57735	54780	57735
40°	51557	40161	41941	40161
45°	45811	24500	28350	24500
50°	38776	16368	18177	16368
55°	32117	11166	11806	11166
60°	24496	7432	7499	7432
65°	17358	4633	4239	4633
70°	12514	3101	2813	3101
75°	7947	1537	1287	1537
80°	5540	1154	959	1154
85°	4953	0	389	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.8	5.7
10°-20°	607.6	16.4
20°-30°	920.0	24.8
30°-40°	922.0	24.8
40°-50°	579.0	15.6
50°-60°	308.5	8.3
60°-70°	126.9	3.4
70°-80°	33.5	0.9
80°-90°	5.7	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°	1737.3	46.8
0°-40°	2659.4	71.6
0°-60°	3546.9	95.5
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2204	2204	2204	2204	2204	
5°	2138	2201	2280	2201	2138	202
15°	1975	2144	2357	2144	1975	559
25°	1850	2019	2182	2019	1850	849
35°	1492	1534	1455	1534	1492	935
45°	1050	562	650	562	1050	808
55°	597	208	220	208	597	533
65°	238	64	58	64	238	247
75°	67	13	11	13	67	76
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°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2181.7	2179.5	2178.5	2180.6	2181.7	2186.0	2184.9	2187.1	2187.1	2188.2	2190.3
5°	2137.6	2136.5	2137.6	2137.6	2141.9	2146.2	2145.1	2148.3	2150.5	2155.9	2158.0
7.5°	2096.7	2096.7	2095.6	2099.9	2102.0	2108.5	2107.4	2112.8	2116.0	2121.4	2128.9
10°	2054.7	2054.7	2055.7	2059.0	2060.1	2069.7	2069.7	2077.3	2081.6	2087.0	2096.7
12.5°	2013.8	2013.8	2020.3	2018.1	2022.4	2029.9	2033.2	2040.7	2047.2	2057.9	2067.6
15°	1975.0	1975.0	1977.2	1982.6	1985.8	1995.5	2000.9	2009.5	2017.0	2027.8	2041.8
17.5°	1941.7	1940.6	1941.7	1948.1	1954.6	1963.2	1967.5	1978.3	1985.8	1999.8	2012.7
20°	1908.3	1910.5	1910.5	1915.8	1920.1	1930.9	1935.2	1947.1	1955.7	1968.6	1983.7
22.5°	1879.2	1878.2	1878.2	1885.7	1888.9	1898.6	1902.9	1913.7	1923.4	1934.1	1948.1
25°	1850.2	1848.0	1852.4	1853.4	1855.5	1866.3	1869.5	1877.1	1886.8	1896.5	1910.5
27.5°	1807.1	1805.0	1806.1	1810.4	1813.6	1822.2	1824.4	1831.9	1839.4	1848.0	1859.9
30°	1724.2	1722.1	1721.0	1728.6	1731.8	1738.2	1741.5	1754.4	1756.5	1766.2	1774.8
32.5°	1614.5	1613.4	1615.6	1622.0	1625.2	1633.9	1638.2	1645.7	1651.0	1656.5	1665.0
35°	1491.8	1489.6	1491.8	1498.2	1498.2	1505.8	1509.0	1512.2	1511.1	1512.2	1510.1
37.5°	1377.7	1376.6	1377.7	1380.9	1377.7	1380.9	1377.7	1371.2	1359.4	1346.5	1333.5
40°	1280.8	1281.9	1275.5	1279.8	1267.9	1265.8	1253.9	1237.8	1214.1	1188.3	1151.7
42.5°	1177.5	1174.3	1170.0	1172.1	1162.4	1154.9	1135.5	1115.1	1084.9	1041.9	997.7
45°	1050.5	1049.4	1047.3	1046.2	1039.7	1032.2	1016.0	992.4	959.0	914.9	862.1
47.5°	926.7	923.5	923.5	924.5	917.0	915.9	903.0	882.6	853.5	810.5	755.6
50°	808.3	807.2	809.4	813.7	808.3	806.2	797.6	783.6	757.7	721.1	669.4
52.5°	701.7	700.7	702.9	708.2	706.0	708.2	699.6	688.9	671.6	636.1	590.9
55°	597.4	597.4	597.4	603.8	603.8	603.8	599.5	593.1	576.9	551.1	509.1
57.5°	488.7	489.7	496.2	497.2	496.2	498.4	497.2	490.8	480.1	461.8	429.5
60°	397.2	397.2	400.4	403.6	402.5	403.6	403.6	400.4	389.6	374.6	348.7
62.5°	314.3	317.5	315.3	317.5	321.8	317.5	315.3	313.2	305.7	296.0	274.5
65°	237.9	240.0	240.0	241.1	238.9	240.0	235.7	232.5	228.2	217.4	203.4
67.5°	180.8	180.8	180.8	180.8	179.7	178.7	177.6	174.4	166.8	162.5	147.4
70°	138.8	132.4	132.4	132.4	132.4	133.5	130.2	126.0	123.8	116.2	105.5
72.5°	92.5	94.7	92.5	92.5	90.4	91.5	87.2	85.0	82.9	78.6	72.1
75°	66.7	61.4	63.5	64.6	61.4	63.5	59.2	54.9	54.9	51.7	48.4
77.5°	43.1	42.0	43.1	44.1	43.1	42.0	39.8	37.7	37.7	36.6	33.4
80°	31.2	30.1	30.1	30.1	29.1	30.1	28.0	28.0	25.8	24.8	22.6
82.5°	20.5	20.5	19.4	20.5	19.4	20.5	17.2	17.2	17.2	16.1	14.0
85°	14.0	11.8	11.8	12.9	10.8	12.9	11.8	10.8	9.7	9.7	8.6
87.5°	6.5	7.5	6.5	7.5	6.5	6.5	7.5	6.5	6.5	4.3	4.3
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°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2193.5	2194.6	2194.6	2198.9	2201.1	2202.1	2202.1	2210.8	2207.5	2209.7	2211.8
5°	2162.3	2168.8	2170.9	2170.9	2182.8	2187.1	2191.4	2201.1	2202.1	2208.6	2216.1
7.5°	2132.2	2139.7	2144.0	2153.7	2161.2	2168.8	2181.7	2188.2	2194.6	2203.2	2212.9
10°	2103.1	2111.7	2120.3	2127.9	2139.7	2149.4	2158.0	2173.1	2180.6	2192.5	2205.4
12.5°	2075.2	2087.0	2094.5	2107.4	2120.3	2128.9	2141.9	2155.9	2167.7	2179.5	2194.6
15°	2050.4	2064.4	2073.0	2087.0	2101.0	2112.8	2126.8	2144.0	2152.6	2166.6	2180.6
17.5°	2023.4	2038.6	2049.3	2062.2	2079.4	2092.3	2104.2	2121.4	2132.2	2147.2	2163.4
20°	1995.5	2010.6	2023.4	2036.4	2053.6	2066.5	2080.5	2097.7	2109.6	2124.6	2137.6
22.5°	1962.1	1976.1	1990.1	2005.2	2022.4	2033.2	2049.3	2064.4	2077.3	2091.3	2104.2
25°	1919.1	1936.3	1947.1	1961.0	1975.0	1986.9	2004.1	2019.2	2029.9	2042.9	2054.7
27.5°	1868.5	1881.4	1890.0	1901.8	1915.8	1926.6	1939.5	1954.6	1965.4	1977.2	1985.8
30°	1782.4	1794.2	1801.8	1810.4	1824.4	1834.1	1844.8	1858.8	1866.3	1874.9	1882.5
32.5°	1669.3	1679.0	1683.3	1689.8	1699.5	1709.2	1717.8	1729.6	1732.9	1738.2	1738.2
35°	1505.8	1507.9	1506.8	1509.0	1513.3	1518.7	1526.2	1533.7	1538.0	1538.0	1534.8
37.5°	1314.2	1301.3	1287.3	1276.5	1273.3	1271.1	1275.5	1278.6	1283.0	1285.1	1279.8
40°	1115.1	1086.0	1054.8	1026.8	1007.4	998.8	995.6	997.7	997.7	1005.3	1005.3
42.5°	943.9	898.7	852.5	810.5	782.5	761.0	751.3	751.3	752.3	757.7	761.0
45°	801.9	744.8	691.0	644.7	606.0	578.0	565.1	561.8	560.8	562.9	570.4
47.5°	693.1	634.0	578.0	520.9	480.1	452.1	440.2	435.9	431.6	435.9	437.0
50°	608.1	546.8	487.6	430.5	387.5	362.7	347.6	341.2	340.1	340.1	342.3
52.5°	530.6	473.6	414.4	356.3	311.0	287.4	273.4	270.2	265.9	270.2	270.2
55°	457.4	400.4	342.3	287.4	249.7	225.0	212.0	207.7	205.6	208.8	208.8
57.5°	377.8	329.3	275.6	226.0	188.4	171.1	161.4	156.1	155.0	157.1	155.0
60°	310.0	269.1	222.8	177.6	148.5	130.2	122.7	120.5	118.4	120.5	120.5
62.5°	245.4	211.0	173.3	138.8	114.1	101.2	92.5	92.5	91.5	91.5	92.5
65°	181.9	155.0	128.1	99.0	79.7	70.0	63.5	63.5	62.4	63.5	62.4
67.5°	132.4	114.1	92.5	72.1	57.1	51.7	47.4	44.1	46.3	44.1	43.1
70°	96.9	81.8	66.7	54.9	44.1	38.8	35.5	34.4	32.3	32.3	32.3
72.5°	64.6	54.9	45.2	35.5	29.1	23.7	22.6	20.5	18.3	19.4	21.5
75°	43.1	36.6	32.3	25.8	19.4	19.4	12.9	12.9	10.8	12.9	9.7
77.5°	30.1	24.8	19.4	16.1	12.9	11.8	8.6	8.6	7.5	7.5	7.5
80°	21.5	18.3	14.0	11.8	8.6	8.6	7.5	6.5	5.4	5.4	6.5
82.5°	12.9	9.7	9.7	8.6	5.4	4.3	3.2	4.3	2.2	2.2	2.2
85°	7.5	6.5	5.4	3.2	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2217.2	2216.1	2218.3	2218.3	2224.8	2223.7	2226.9	2226.9	2224.8	2225.8	2230.1
5°	2224.8	2228.0	2234.4	2239.8	2249.5	2253.8	2259.2	2264.6	2265.6	2268.9	2272.1
7.5°	2224.8	2235.5	2243.1	2252.7	2265.6	2273.2	2285.0	2294.7	2299.0	2304.4	2310.8
10°	2220.4	2231.2	2245.2	2255.9	2272.1	2283.9	2295.8	2310.8	2317.3	2325.9	2334.5
12.5°	2211.8	2223.7	2238.7	2252.7	2271.0	2281.8	2296.8	2310.8	2320.5	2332.4	2342.1
15°	2198.9	2212.9	2226.9	2240.9	2260.2	2273.2	2287.2	2303.3	2313.0	2325.9	2334.5
17.5°	2178.5	2193.5	2206.5	2219.4	2237.6	2252.7	2265.6	2280.7	2290.4	2301.2	2313.0
20°	2153.7	2167.7	2181.7	2192.5	2210.8	2223.7	2237.6	2251.6	2259.2	2261.4	2279.6
22.5°	2122.5	2132.2	2142.9	2160.2	2170.9	2182.8	2195.7	2208.6	2216.1	2228.0	2234.4
25°	2070.8	2080.5	2092.3	2099.9	2112.8	2122.5	2135.4	2149.4	2153.7	2162.3	2168.8
27.5°	1998.7	2004.1	2009.5	2015.9	2023.4	2028.9	2036.4	2042.9	2047.2	2051.4	2055.7
30°	1884.6	1884.6	1884.6	1880.3	1883.5	1886.8	1887.8	1886.8	1886.8	1885.7	1885.7
32.5°	1733.9	1725.3	1715.6	1707.0	1703.8	1699.5	1697.3	1694.1	1688.7	1685.5	1686.6
35°	1530.5	1511.1	1499.3	1488.5	1480.0	1473.5	1470.3	1467.0	1466.0	1461.7	1457.3
37.5°	1276.5	1262.5	1253.9	1247.5	1239.9	1233.5	1234.5	1235.6	1238.8	1236.7	1237.8
40°	1007.4	1004.2	1007.4	999.9	997.7	999.9	1005.3	1012.8	1017.1	1021.4	1029.0
42.5°	766.3	771.7	779.3	779.3	782.5	786.8	793.2	805.1	811.5	819.1	827.7
45°	576.9	583.4	593.1	596.3	598.4	603.8	611.4	621.0	625.3	631.8	639.3
47.5°	444.5	448.8	454.2	459.6	464.9	467.1	474.7	474.7	480.1	484.4	486.5
50°	346.6	350.9	355.2	358.4	360.6	363.8	365.9	369.2	370.2	372.4	373.5
52.5°	271.2	276.6	276.6	278.7	282.0	285.2	284.2	285.2	286.3	286.3	289.5
55°	212.0	212.0	215.3	215.3	217.4	216.3	217.4	217.4	217.4	217.4	218.5
57.5°	158.2	159.3	162.5	160.4	159.3	161.4	159.3	161.4	160.4	162.5	159.3
60°	121.6	121.6	122.7	122.7	123.8	123.8	123.8	122.7	122.7	121.6	121.6
62.5°	91.5	92.5	93.7	92.5	92.5	92.5	91.5	91.5	90.4	89.3	89.3
65°	61.4	60.3	62.4	60.3	61.4	61.4	60.3	61.4	58.1	59.2	58.1
67.5°	44.1	43.1	42.0	43.1	42.0	40.9	40.9	42.0	43.1	39.8	39.8
70°	29.1	30.1	29.1	30.1	31.2	31.2	30.1	29.1	30.1	28.0	29.1
72.5°	18.3	18.3	18.3	18.3	18.3	19.4	19.4	19.4	17.2	17.2	16.1
75°	8.6	11.8	9.7	8.6	11.8	11.8	10.8	10.8	9.7	9.7	9.7
77.5°	8.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.4	6.5	5.4
80°	4.3	4.3	4.3	3.2	4.3	4.3	5.4	4.3	4.3	3.2	5.4
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	1.1
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: P246004

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2229.1	2228.0	2229.1	2230.1	2229.1	2228.0	2229.1	2230.1	2225.8	2224.8	2226.9
5°	2276.4	2276.4	2278.5	2279.6	2278.5	2276.4	2276.4	2272.1	2268.9	2265.6	2264.6
7.5°	2317.3	2319.5	2321.6	2322.7	2321.6	2319.5	2317.3	2310.8	2304.4	2299.0	2294.7
10°	2342.1	2345.3	2349.6	2351.7	2349.6	2345.3	2342.1	2334.5	2325.9	2317.3	2310.8
12.5°	2352.8	2356.1	2361.4	2360.4	2361.4	2356.1	2352.8	2342.1	2332.4	2320.5	2310.8
15°	2345.3	2349.6	2355.0	2357.1	2355.0	2349.6	2345.3	2334.5	2325.9	2313.0	2303.3
17.5°	2321.6	2328.1	2331.3	2334.5	2331.3	2328.1	2321.6	2313.0	2301.2	2290.4	2280.7
20°	2289.3	2293.6	2297.9	2299.0	2297.9	2293.6	2289.3	2279.6	2261.4	2259.2	2251.6
22.5°	2243.1	2246.3	2255.9	2252.7	2255.9	2246.3	2243.1	2234.4	2228.0	2216.1	2208.6
25°	2176.3	2179.5	2180.6	2181.7	2180.6	2179.5	2176.3	2168.8	2162.3	2153.7	2149.4
27.5°	2061.2	2061.2	2063.3	2064.4	2063.3	2061.2	2061.2	2055.7	2051.4	2047.2	2042.9
30°	1886.8	1886.8	1886.8	1892.2	1886.8	1886.8	1886.8	1885.7	1885.7	1886.8	1886.8
32.5°	1685.5	1683.3	1681.2	1683.3	1681.2	1683.3	1685.5	1686.6	1685.5	1688.7	1694.1
35°	1457.3	1456.3	1459.5	1455.2	1459.5	1456.3	1457.3	1457.3	1461.7	1466.0	1467.0
37.5°	1238.8	1236.7	1241.0	1236.7	1241.0	1236.7	1238.8	1237.8	1236.7	1238.8	1235.6
40°	1031.1	1033.3	1033.3	1041.9	1033.3	1033.3	1031.1	1029.0	1021.4	1017.1	1012.8
42.5°	832.0	838.5	836.3	842.8	836.3	838.5	832.0	827.7	819.1	811.5	805.1
45°	643.6	648.0	648.0	650.1	648.0	648.0	643.6	639.3	631.8	625.3	621.0
47.5°	494.0	494.0	494.0	495.1	494.0	494.0	494.0	486.5	484.4	480.1	474.7
50°	375.6	376.7	377.8	378.9	377.8	376.7	375.6	373.5	372.4	370.2	369.2
52.5°	288.5	289.5	287.4	289.5	287.4	289.5	288.5	289.5	286.3	286.3	285.2
55°	218.5	217.4	218.5	219.6	218.5	217.4	218.5	218.5	217.4	217.4	217.4
57.5°	160.4	158.2	158.2	158.2	158.2	158.2	160.4	159.3	162.5	160.4	161.4
60°	119.5	120.5	120.5	121.6	120.5	120.5	119.5	121.6	121.6	122.7	122.7
62.5°	88.2	91.5	89.3	91.5	89.3	91.5	88.2	89.3	89.3	90.4	91.5
65°	57.1	57.1	57.1	58.1	57.1	57.1	57.1	58.1	59.2	58.1	61.4
67.5°	38.8	39.8	42.0	40.9	42.0	39.8	38.8	39.8	39.8	43.1	42.0
70°	31.2	28.0	28.0	31.2	28.0	28.0	31.2	29.1	28.0	30.1	29.1
72.5°	18.3	16.1	18.3	18.3	18.3	16.1	18.3	16.1	17.2	17.2	19.4
75°	9.7	8.6	7.5	10.8	7.5	8.6	9.7	9.7	9.7	9.7	10.8
77.5°	6.5	5.4	7.5	7.5	7.5	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.2	4.3	3.2	5.4	3.2	4.3	3.2	5.4	3.2	4.3	4.3
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P246004

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2226.9	2223.7	2224.8	2218.3	2218.3	2216.1	2217.2	2211.8	2209.7	2207.5	2210.8
5°	2259.2	2253.8	2249.5	2239.8	2234.4	2228.0	2224.8	2216.1	2208.6	2202.1	2201.1
7.5°	2285.0	2273.2	2265.6	2252.7	2243.1	2235.5	2224.8	2212.9	2203.2	2194.6	2188.2
10°	2295.8	2283.9	2272.1	2255.9	2245.2	2231.2	2220.4	2205.4	2192.5	2180.6	2173.1
12.5°	2296.8	2281.8	2271.0	2252.7	2238.7	2223.7	2211.8	2194.6	2179.5	2167.7	2155.9
15°	2287.2	2273.2	2260.2	2240.9	2226.9	2212.9	2198.9	2180.6	2166.6	2152.6	2144.0
17.5°	2265.6	2252.7	2237.6	2219.4	2206.5	2193.5	2178.5	2163.4	2147.2	2132.2	2121.4
20°	2237.6	2223.7	2210.8	2192.5	2181.7	2167.7	2153.7	2137.6	2124.6	2109.6	2097.7
22.5°	2195.7	2182.8	2170.9	2160.2	2142.9	2132.2	2122.5	2104.2	2091.3	2077.3	2064.4
25°	2135.4	2122.5	2112.8	2099.9	2092.3	2080.5	2070.8	2054.7	2042.9	2029.9	2019.2
27.5°	2036.4	2028.9	2023.4	2015.9	2009.5	2004.1	1998.7	1985.8	1977.2	1965.4	1954.6
30°	1887.8	1886.8	1883.5	1880.3	1884.6	1884.6	1884.6	1882.5	1874.9	1866.3	1858.8
32.5°	1697.3	1699.5	1703.8	1707.0	1715.6	1725.3	1733.9	1738.2	1738.2	1732.9	1729.6
35°	1470.3	1473.5	1480.0	1488.5	1499.3	1511.1	1530.5	1534.8	1538.0	1538.0	1533.7
37.5°	1234.5	1233.5	1239.9	1247.5	1253.9	1262.5	1276.5	1279.8	1285.1	1283.0	1278.6
40°	1005.3	999.9	997.7	999.9	1007.4	1004.2	1007.4	1005.3	1005.3	997.7	997.7
42.5°	793.2	786.8	782.5	779.3	779.3	771.7	766.3	761.0	757.7	752.3	751.3
45°	611.4	603.8	598.4	596.3	593.1	583.4	576.9	570.4	562.9	560.8	561.8
47.5°	474.7	467.1	464.9	459.6	454.2	448.8	444.5	437.0	435.9	431.6	435.9
50°	365.9	363.8	360.6	358.4	355.2	350.9	346.6	342.3	340.1	340.1	341.2
52.5°	284.2	285.2	282.0	278.7	276.6	276.6	271.2	270.2	270.2	265.9	270.2
55°	217.4	216.3	217.4	215.3	215.3	212.0	212.0	208.8	208.8	205.6	207.7
57.5°	159.3	161.4	159.3	160.4	162.5	159.3	158.2	155.0	157.1	155.0	156.1
60°	123.8	123.8	123.8	122.7	122.7	121.6	121.6	120.5	120.5	118.4	120.5
62.5°	91.5	92.5	92.5	92.5	93.7	92.5	91.5	92.5	91.5	91.5	92.5
65°	60.3	61.4	61.4	60.3	62.4	60.3	61.4	62.4	63.5	62.4	63.5
67.5°	40.9	40.9	42.0	43.1	42.0	43.1	44.1	43.1	44.1	46.3	44.1
70°	30.1	31.2	31.2	30.1	29.1	30.1	29.1	32.3	32.3	32.3	34.4
72.5°	19.4	19.4	18.3	18.3	18.3	18.3	18.3	21.5	19.4	18.3	20.5
75°	10.8	11.8	11.8	8.6	9.7	11.8	8.6	9.7	12.9	10.8	12.9
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.6	7.5	7.5	7.5	8.6
80°	5.4	4.3	4.3	3.2	4.3	4.3	4.3	6.5	5.4	5.4	6.5
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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: P246004

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2202.1	2202.1	2201.1	2198.9	2194.6	2194.6	2193.5	2190.3	2188.2	2187.1	2187.1
5°	2191.4	2187.1	2182.8	2170.9	2170.9	2168.8	2162.3	2158.0	2155.9	2150.5	2148.3
7.5°	2181.7	2168.8	2161.2	2153.7	2144.0	2139.7	2132.2	2128.9	2121.4	2116.0	2112.8
10°	2158.0	2149.4	2139.7	2127.9	2120.3	2111.7	2103.1	2096.7	2087.0	2081.6	2077.3
12.5°	2141.9	2128.9	2120.3	2107.4	2094.5	2087.0	2075.2	2067.6	2057.9	2047.2	2040.7
15°	2126.8	2112.8	2101.0	2087.0	2073.0	2064.4	2050.4	2041.8	2027.8	2017.0	2009.5
17.5°	2104.2	2092.3	2079.4	2062.2	2049.3	2038.6	2023.4	2012.7	1999.8	1985.8	1978.3
20°	2080.5	2066.5	2053.6	2036.4	2023.4	2010.6	1995.5	1983.7	1968.6	1955.7	1947.1
22.5°	2049.3	2033.2	2022.4	2005.2	1990.1	1976.1	1962.1	1948.1	1934.1	1923.4	1913.7
25°	2004.1	1986.9	1975.0	1961.0	1947.1	1936.3	1919.1	1910.5	1896.5	1886.8	1877.1
27.5°	1939.5	1926.6	1915.8	1901.8	1890.0	1881.4	1868.5	1859.9	1848.0	1839.4	1831.9
30°	1844.8	1834.1	1824.4	1810.4	1801.8	1794.2	1782.4	1774.8	1766.2	1756.5	1754.4
32.5°	1717.8	1709.2	1699.5	1689.8	1683.3	1679.0	1669.3	1665.0	1656.5	1651.0	1645.7
35°	1526.2	1518.7	1513.3	1509.0	1506.8	1507.9	1505.8	1510.1	1512.2	1511.1	1512.2
37.5°	1275.5	1271.1	1273.3	1276.5	1287.3	1301.3	1314.2	1333.5	1346.5	1359.4	1371.2
40°	995.6	998.8	1007.4	1026.8	1054.8	1086.0	1115.1	1151.7	1188.3	1214.1	1237.8
42.5°	751.3	761.0	782.5	810.5	852.5	898.7	943.9	997.7	1041.9	1084.9	1115.1
45°	565.1	578.0	606.0	644.7	691.0	744.8	801.9	862.1	914.9	959.0	992.4
47.5°	440.2	452.1	480.1	520.9	578.0	634.0	693.1	755.6	810.5	853.5	882.6
50°	347.6	362.7	387.5	430.5	487.6	546.8	608.1	669.4	721.1	757.7	783.6
52.5°	273.4	287.4	311.0	356.3	414.4	473.6	530.6	590.9	636.1	671.6	688.9
55°	212.0	225.0	249.7	287.4	342.3	400.4	457.4	509.1	551.1	576.9	593.1
57.5°	161.4	171.1	188.4	226.0	275.6	329.3	377.8	429.5	461.8	480.1	490.8
60°	122.7	130.2	148.5	177.6	222.8	269.1	310.0	348.7	374.6	389.6	400.4
62.5°	92.5	101.2	114.1	138.8	173.3	211.0	245.4	274.5	296.0	305.7	313.2
65°	63.5	70.0	79.7	99.0	128.1	155.0	181.9	203.4	217.4	228.2	232.5
67.5°	47.4	51.7	57.1	72.1	92.5	114.1	132.4	147.4	162.5	166.8	174.4
70°	35.5	38.8	44.1	54.9	66.7	81.8	96.9	105.5	116.2	123.8	126.0
72.5°	22.6	23.7	29.1	35.5	45.2	54.9	64.6	72.1	78.6	82.9	85.0
75°	12.9	19.4	19.4	25.8	32.3	36.6	43.1	48.4	51.7	54.9	54.9
77.5°	8.6	11.8	12.9	16.1	19.4	24.8	30.1	33.4	36.6	37.7	37.7
80°	7.5	8.6	8.6	11.8	14.0	18.3	21.5	22.6	24.8	25.8	28.0
82.5°	3.2	4.3	5.4	8.6	9.7	9.7	12.9	14.0	16.1	17.2	17.2
85°	1.1	2.2	2.2	3.2	5.4	6.5	7.5	8.6	9.7	9.7	10.8
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.3	4.3	4.3	6.5	6.5
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: P246004

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3	2204.3
2.5°	2184.9	2186.0	2181.7	2180.6	2178.5	2179.5	2181.7
5°	2145.1	2146.2	2141.9	2137.6	2137.6	2136.5	2137.6
7.5°	2107.4	2108.5	2102.0	2099.9	2095.6	2096.7	2096.7
10°	2069.7	2069.7	2060.1	2059.0	2055.7	2054.7	2054.7
12.5°	2033.2	2029.9	2022.4	2018.1	2020.3	2013.8	2013.8
15°	2000.9	1995.5	1985.8	1982.6	1977.2	1975.0	1975.0
17.5°	1967.5	1963.2	1954.6	1948.1	1941.7	1940.6	1941.7
20°	1935.2	1930.9	1920.1	1915.8	1910.5	1910.5	1908.3
22.5°	1902.9	1898.6	1888.9	1885.7	1878.2	1878.2	1879.2
25°	1869.5	1866.3	1855.5	1853.4	1852.4	1848.0	1850.2
27.5°	1824.4	1822.2	1813.6	1810.4	1806.1	1805.0	1807.1
30°	1741.5	1738.2	1731.8	1728.6	1721.0	1722.1	1724.2
32.5°	1638.2	1633.9	1625.2	1622.0	1615.6	1613.4	1614.5
35°	1509.0	1505.8	1498.2	1498.2	1491.8	1489.6	1491.8
37.5°	1377.7	1380.9	1377.7	1380.9	1377.7	1376.6	1377.7
40°	1253.9	1265.8	1267.9	1279.8	1275.5	1281.9	1280.8
42.5°	1135.5	1154.9	1162.4	1172.1	1170.0	1174.3	1177.5
45°	1016.0	1032.2	1039.7	1046.2	1047.3	1049.4	1050.5
47.5°	903.0	915.9	917.0	924.5	923.5	923.5	926.7
50°	797.6	806.2	808.3	813.7	809.4	807.2	808.3
52.5°	699.6	708.2	706.0	708.2	702.9	700.7	701.7
55°	599.5	603.8	603.8	603.8	597.4	597.4	597.4
57.5°	497.2	498.4	496.2	497.2	496.2	489.7	488.7
60°	403.6	403.6	402.5	403.6	400.4	397.2	397.2
62.5°	315.3	317.5	321.8	317.5	315.3	317.5	314.3
65°	235.7	240.0	238.9	241.1	240.0	240.0	237.9
67.5°	177.6	178.7	179.7	180.8	180.8	180.8	180.8
70°	130.2	133.5	132.4	132.4	132.4	132.4	138.8
72.5°	87.2	91.5	90.4	92.5	92.5	94.7	92.5
75°	59.2	63.5	61.4	64.6	63.5	61.4	66.7
77.5°	39.8	42.0	43.1	44.1	43.1	42.0	43.1
80°	28.0	30.1	29.1	30.1	30.1	30.1	31.2
82.5°	17.2	20.5	19.4	20.5	19.4	20.5	20.5
85°	11.8	12.9	10.8	12.9	11.8	11.8	14.0
87.5°	7.5	6.5	6.5	7.5	6.5	7.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)