

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: P245860

Luminaire Tested: **LD8B40D010 ER8B40935 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245860
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

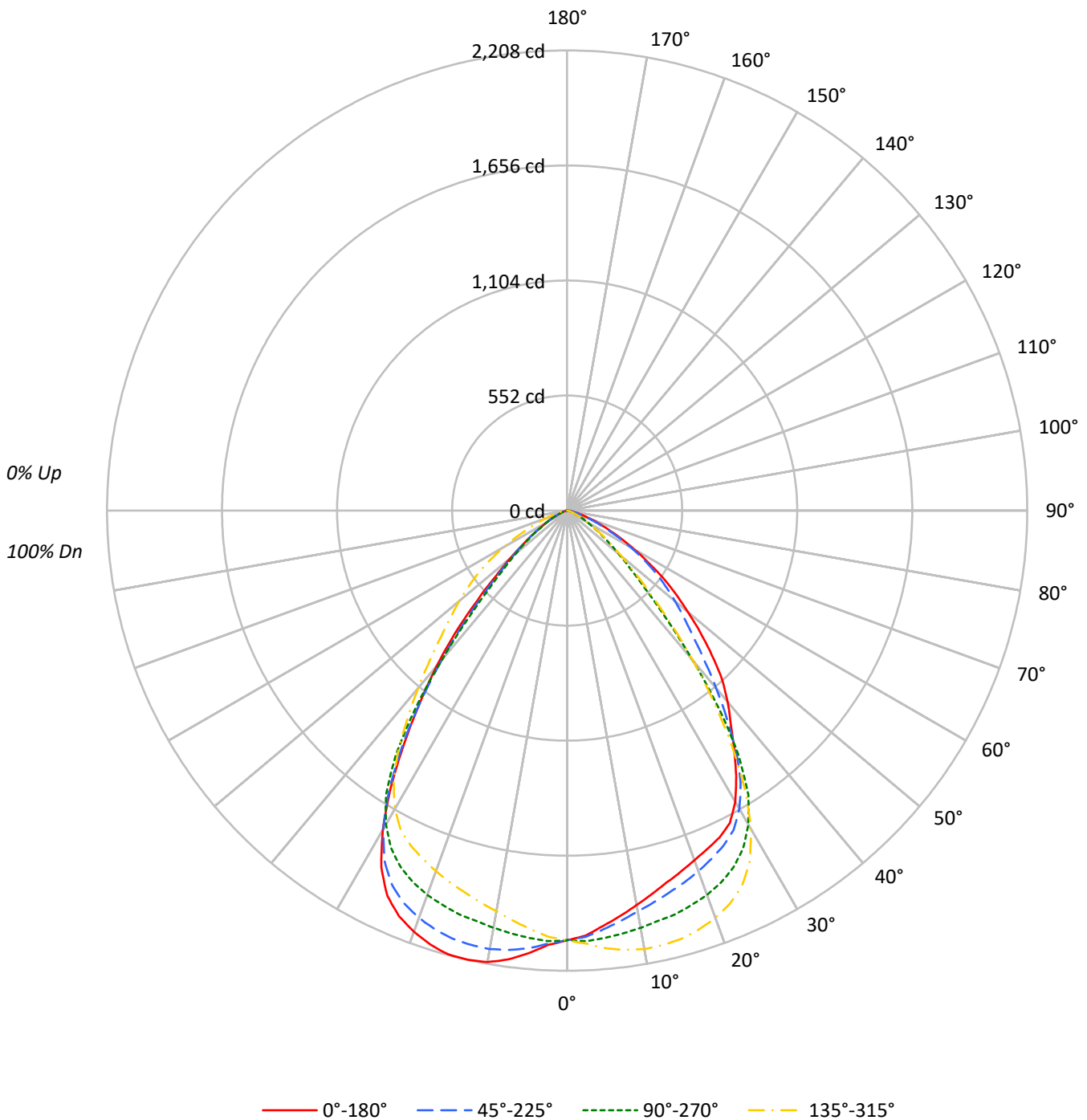
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63578	63578	63578	63578
5°	61890	63728	66003	63728
10°	60179	63645	68877	63645
15°	58977	64024	70386	64024
20°	58575	64390	70566	64390
25°	58882	64258	69433	64258
30°	57426	61906	63020	61906
35°	52529	54004	51238	54004
40°	48224	37565	39227	37565
45°	42850	22917	26519	22917
50°	36267	15308	17002	15308
55°	30042	10446	11043	10446
60°	22911	6957	7012	6957
65°	16235	4334	3969	4334
70°	11712	2903	2633	2903
75°	7434	1442	1203	1442
80°	5185	1083	888	1083
85°	4635	0	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	5.7
10°-20°	568.3	16.4
20°-30°	860.5	24.8
30°-40°	862.4	24.8
40°-50°	541.6	15.6
50°-60°	288.6	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°	1625.0	46.8
0°-40°	2487.5	71.6
0°-60°	3317.7	95.5
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2062	2062	2062	2062	2062	
5°	1999	2059	2132	2059	1999	189
15°	1847	2006	2205	2006	1847	522
25°	1731	1889	2041	1889	1731	794
35°	1395	1435	1361	1435	1395	874
45°	983	526	608	526	983	756
55°	559	194	205	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°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2040.7	2038.6	2037.7	2039.7	2040.7	2044.7	2043.7	2045.7	2045.7	2046.7	2048.7
5°	1999.4	1998.4	1999.4	1999.4	2003.4	2007.4	2006.4	2009.5	2011.5	2016.5	2018.5
7.5°	1961.2	1961.2	1960.1	1964.1	1966.2	1972.2	1971.2	1976.2	1979.3	1984.3	1991.3
10°	1921.9	1921.9	1922.9	1925.9	1926.9	1936.0	1936.0	1943.0	1947.0	1952.1	1961.2
12.5°	1883.6	1883.6	1889.7	1887.6	1891.7	1898.7	1901.7	1908.8	1914.8	1924.9	1934.0
15°	1847.4	1847.4	1849.4	1854.4	1857.4	1866.5	1871.5	1879.6	1886.6	1896.7	1909.8
17.5°	1816.2	1815.2	1816.2	1822.2	1828.3	1836.3	1840.3	1850.4	1857.4	1870.5	1882.6
20°	1785.0	1787.0	1787.0	1792.0	1796.0	1806.1	1810.1	1821.2	1829.3	1841.3	1855.4
22.5°	1757.8	1756.8	1756.8	1763.8	1766.9	1775.9	1779.9	1790.0	1799.0	1809.1	1822.2
25°	1730.6	1728.6	1732.6	1733.6	1735.6	1745.7	1748.7	1755.7	1764.8	1773.9	1787.0
27.5°	1690.3	1688.3	1689.3	1693.3	1696.4	1704.4	1706.4	1713.5	1720.5	1728.6	1739.7
30°	1612.8	1610.8	1609.8	1616.8	1619.9	1625.9	1628.9	1641.0	1643.0	1652.1	1660.1
32.5°	1510.1	1509.1	1511.1	1517.1	1520.2	1528.2	1532.3	1539.3	1544.3	1549.4	1557.4
35°	1395.4	1393.3	1395.4	1401.4	1401.4	1408.5	1411.5	1414.5	1413.5	1414.5	1412.5
37.5°	1288.7	1287.6	1288.7	1291.6	1288.7	1291.6	1288.7	1282.6	1271.5	1259.4	1247.3
40°	1198.0	1199.0	1193.0	1197.0	1185.9	1183.9	1172.9	1157.7	1135.6	1111.5	1077.2
42.5°	1101.4	1098.4	1094.3	1096.3	1087.3	1080.2	1062.1	1043.0	1014.8	974.5	933.2
45°	982.6	981.6	979.6	978.6	972.5	965.5	950.3	928.2	897.0	855.7	806.4
47.5°	866.8	863.8	863.8	864.8	857.7	856.7	844.6	825.5	798.4	758.1	706.7
50°	756.0	755.0	757.1	761.1	756.0	754.1	746.0	732.9	708.8	674.5	626.2
52.5°	656.4	655.4	657.4	662.4	660.4	662.4	654.4	644.3	628.2	595.0	552.7
55°	558.8	558.8	558.8	564.8	564.8	564.8	560.7	554.7	539.6	515.5	476.2
57.5°	457.1	458.1	464.1	465.1	464.1	466.1	465.1	459.1	449.0	431.9	401.7
60°	371.5	371.5	374.5	377.5	376.5	377.5	377.5	374.5	364.5	350.4	326.2
62.5°	294.0	297.0	295.0	297.0	301.0	297.0	295.0	293.0	285.9	276.9	256.7
65°	222.5	224.5	224.5	225.5	223.5	224.5	220.5	217.5	213.4	203.4	190.3
67.5°	169.2	169.2	169.2	169.2	168.1	167.1	166.1	163.1	156.1	152.0	137.9
70°	129.9	123.8	123.8	123.8	123.8	124.9	121.8	117.8	115.8	108.7	98.7
72.5°	86.6	88.6	86.6	86.6	84.6	85.6	81.6	79.5	77.5	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°	40.3	39.3	40.3	41.3	40.3	39.3	37.3	35.2	35.2	34.2	31.2
80°	29.2	28.2	28.2	28.2	27.2	28.2	26.2	26.2	24.2	23.2	21.1
82.5°	19.1	19.1	18.1	19.1	18.1	19.1	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	8.0
87.5°	6.1	7.0	6.1	7.0	6.1	6.1	7.0	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°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2051.7	2052.7	2052.7	2056.8	2058.8	2059.8	2059.8	2067.9	2064.8	2066.9	2068.9
5°	2022.6	2028.6	2030.6	2030.6	2041.7	2045.7	2049.7	2058.8	2059.8	2065.8	2072.9
7.5°	1994.3	2001.4	2005.5	2014.5	2021.5	2028.6	2040.7	2046.7	2052.7	2060.8	2069.8
10°	1967.2	1975.2	1983.3	1990.3	2001.4	2010.5	2018.5	2032.6	2039.7	2050.7	2062.8
12.5°	1941.0	1952.1	1959.1	1971.2	1983.3	1991.3	2003.4	2016.5	2027.6	2038.6	2052.7
15°	1917.9	1930.9	1939.0	1952.1	1965.2	1976.2	1989.3	2005.5	2013.5	2026.6	2039.7
17.5°	1892.7	1906.8	1916.9	1928.9	1945.0	1957.1	1968.2	1984.3	1994.3	2008.4	2023.6
20°	1866.5	1880.6	1892.7	1904.8	1920.9	1932.9	1946.0	1962.2	1973.2	1987.3	1999.4
22.5°	1835.3	1848.4	1861.5	1875.5	1891.7	1901.7	1916.9	1930.9	1943.0	1956.1	1968.2
25°	1795.0	1811.1	1821.2	1834.3	1847.4	1858.4	1874.5	1888.6	1898.7	1910.8	1921.9
27.5°	1747.7	1759.8	1767.8	1778.9	1792.0	1802.1	1814.1	1828.3	1838.3	1849.4	1857.4
30°	1667.2	1678.3	1685.3	1693.3	1706.4	1715.5	1725.6	1738.6	1745.7	1753.8	1760.8
32.5°	1561.4	1570.5	1574.5	1580.6	1589.7	1598.7	1606.8	1617.8	1620.9	1625.9	1625.9
35°	1408.5	1410.4	1409.4	1411.5	1415.5	1420.5	1427.6	1434.6	1438.6	1438.6	1435.6
37.5°	1229.2	1217.2	1204.1	1194.0	1191.0	1189.0	1193.0	1196.0	1200.1	1202.0	1197.0
40°	1043.0	1015.8	986.6	960.4	942.3	934.3	931.2	933.2	933.2	940.3	940.3
42.5°	882.9	840.6	797.4	758.1	731.9	711.8	702.7	702.7	703.7	708.8	711.8
45°	750.0	696.7	646.3	603.1	566.8	540.6	528.5	525.5	524.5	526.5	533.6
47.5°	648.3	593.0	540.6	487.3	449.0	422.8	411.8	407.7	403.7	407.7	408.7
50°	568.8	511.4	456.1	402.7	362.4	339.3	325.2	319.1	318.1	318.1	320.2
52.5°	496.3	443.0	387.6	333.2	290.9	268.8	255.7	252.7	248.7	252.7	252.7
55°	427.9	374.5	320.2	268.8	233.5	210.4	198.3	194.3	192.3	195.3	195.3
57.5°	353.4	308.1	257.7	211.4	176.2	160.1	151.0	146.0	145.0	147.0	145.0
60°	289.9	251.7	208.4	166.1	138.9	121.8	114.8	112.8	110.7	112.8	112.8
62.5°	229.5	197.3	162.1	129.9	106.7	94.6	86.6	86.6	85.6	85.6	86.6
65°	170.1	145.0	119.8	92.6	74.5	65.4	59.4	59.4	58.4	59.4	58.4
67.5°	123.8	106.7	86.6	67.5	53.4	48.3	44.3	41.3	43.3	41.3	40.3
70°	90.6	76.5	62.4	51.3	41.3	36.3	33.2	32.2	30.2	30.2	30.2
72.5°	60.4	51.3	42.3	33.2	27.2	22.1	21.1	19.1	17.1	18.1	20.1
75°	40.3	34.2	30.2	24.2	18.1	18.1	12.1	12.1	10.1	12.1	9.1
77.5°	28.2	23.2	18.1	15.1	12.1	11.1	8.0	8.0	7.0	7.0	7.0
80°	20.1	17.1	13.1	11.1	8.0	8.0	7.0	6.1	5.0	5.0	6.1
82.5°	12.1	9.1	9.1	8.0	5.0	4.0	3.0	4.0	2.0	2.0	2.0
85°	7.0	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°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2073.9	2072.9	2074.9	2074.9	2081.0	2079.9	2082.9	2082.9	2081.0	2081.9	2086.0
5°	2081.0	2084.0	2090.0	2095.0	2104.1	2108.1	2113.2	2118.2	2119.2	2122.2	2125.3
7.5°	2081.0	2091.0	2098.1	2107.1	2119.2	2126.2	2137.3	2146.4	2150.4	2155.4	2161.5
10°	2076.9	2087.0	2100.1	2110.1	2125.3	2136.3	2147.4	2161.5	2167.5	2175.6	2183.6
12.5°	2068.9	2079.9	2094.0	2107.1	2124.2	2134.3	2148.4	2161.5	2170.5	2181.6	2190.7
15°	2056.8	2069.8	2082.9	2096.0	2114.1	2126.2	2139.3	2154.4	2163.5	2175.6	2183.6
17.5°	2037.7	2051.7	2063.8	2075.9	2093.0	2107.1	2119.2	2133.3	2142.4	2152.4	2163.5
20°	2014.5	2027.6	2040.7	2050.7	2067.9	2079.9	2093.0	2106.1	2113.2	2115.2	2132.3
22.5°	1985.3	1994.3	2004.4	2020.5	2030.6	2041.7	2053.8	2065.8	2072.9	2084.0	2090.0
25°	1937.0	1946.0	1957.1	1964.1	1976.2	1985.3	1997.4	2010.5	2014.5	2022.6	2028.6
27.5°	1869.5	1874.5	1879.6	1885.6	1892.7	1897.7	1904.8	1910.8	1914.8	1918.8	1922.9
30°	1762.8	1762.8	1762.8	1758.8	1761.8	1764.8	1765.8	1764.8	1764.8	1763.8	1763.8
32.5°	1621.9	1613.8	1604.7	1596.7	1593.7	1589.7	1587.6	1584.6	1579.6	1576.6	1577.6
35°	1431.6	1413.5	1402.4	1392.3	1384.3	1378.2	1375.2	1372.2	1371.2	1367.2	1363.1
37.5°	1194.0	1180.9	1172.9	1166.8	1159.8	1153.7	1154.7	1155.8	1158.7	1156.8	1157.7
40°	942.3	939.3	942.3	935.3	933.2	935.3	940.3	947.4	951.4	955.4	962.4
42.5°	716.8	721.8	728.9	728.9	731.9	735.9	742.0	753.1	759.1	766.1	774.2
45°	539.6	545.7	554.7	557.7	559.8	564.8	571.9	580.9	584.9	591.0	598.0
47.5°	415.8	419.8	424.8	429.9	434.9	436.9	444.0	444.0	449.0	453.0	455.0
50°	324.2	328.2	332.2	335.2	337.3	340.3	342.3	345.3	346.3	348.3	349.3
52.5°	253.7	258.7	258.7	260.7	263.8	266.8	265.8	266.8	267.8	267.8	270.8
55°	198.3	198.3	201.3	201.3	203.4	202.3	203.4	203.4	203.4	203.4	204.4
57.5°	148.0	149.0	152.0	150.0	149.0	151.0	149.0	151.0	150.0	152.0	149.0
60°	113.7	113.7	114.8	114.8	115.8	115.8	115.8	114.8	114.8	113.7	113.7
62.5°	85.6	86.6	87.6	86.6	86.6	86.6	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	40.3	39.3	40.3	39.3	38.2	38.2	39.3	40.3	37.3	37.3
70°	27.2	28.2	27.2	28.2	29.2	29.2	28.2	27.2	28.2	26.2	27.2
72.5°	17.1	17.1	17.1	17.1	17.1	18.1	18.1	18.1	16.1	16.1	15.1
75°	8.0	11.1	9.1	8.0	11.1	11.1	10.1	10.1	9.1	9.1	9.1
77.5°	8.0	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: P245860

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2085.0	2084.0	2085.0	2086.0	2085.0	2084.0	2085.0	2086.0	2081.9	2081.0	2082.9
5°	2129.3	2129.3	2131.3	2132.3	2131.3	2129.3	2129.3	2125.3	2122.2	2119.2	2118.2
7.5°	2167.5	2169.6	2171.5	2172.5	2171.5	2169.6	2167.5	2161.5	2155.4	2150.4	2146.4
10°	2190.7	2193.7	2197.7	2199.7	2197.7	2193.7	2190.7	2183.6	2175.6	2167.5	2161.5
12.5°	2200.8	2203.8	2208.8	2207.8	2208.8	2203.8	2200.8	2190.7	2181.6	2170.5	2161.5
15°	2193.7	2197.7	2202.7	2204.8	2202.7	2197.7	2193.7	2183.6	2175.6	2163.5	2154.4
17.5°	2171.5	2177.6	2180.6	2183.6	2180.6	2177.6	2171.5	2163.5	2152.4	2142.4	2133.3
20°	2141.3	2145.4	2149.4	2150.4	2149.4	2145.4	2141.3	2132.3	2115.2	2113.2	2106.1
22.5°	2098.1	2101.1	2110.1	2107.1	2110.1	2101.1	2098.1	2090.0	2084.0	2072.9	2065.8
25°	2035.6	2038.6	2039.7	2040.7	2039.7	2038.6	2035.6	2028.6	2022.6	2014.5	2010.5
27.5°	1927.9	1927.9	1929.9	1930.9	1929.9	1927.9	1927.9	1922.9	1918.8	1914.8	1910.8
30°	1764.8	1764.8	1764.8	1769.9	1764.8	1764.8	1764.8	1763.8	1763.8	1764.8	1764.8
32.5°	1576.6	1574.5	1572.5	1574.5	1572.5	1574.5	1576.6	1577.6	1576.6	1579.6	1584.6
35°	1363.1	1362.1	1365.1	1361.1	1365.1	1362.1	1363.1	1363.1	1367.2	1371.2	1372.2
37.5°	1158.7	1156.8	1160.8	1156.8	1160.8	1156.8	1158.7	1157.7	1156.8	1158.7	1155.8
40°	964.5	966.5	966.5	974.5	966.5	966.5	964.5	962.4	955.4	951.4	947.4
42.5°	778.2	784.3	782.2	788.3	782.2	784.3	778.2	774.2	766.1	759.1	753.1
45°	602.0	606.1	606.1	608.1	606.1	606.1	602.0	598.0	591.0	584.9	580.9
47.5°	462.1	462.1	462.1	463.1	462.1	462.1	462.1	455.0	453.0	449.0	444.0
50°	351.4	352.4	353.4	354.4	353.4	352.4	351.4	349.3	348.3	346.3	345.3
52.5°	269.8	270.8	268.8	270.8	268.8	270.8	269.8	270.8	267.8	267.8	266.8
55°	204.4	203.4	204.4	205.4	204.4	203.4	204.4	204.4	203.4	203.4	203.4
57.5°	150.0	148.0	148.0	148.0	148.0	148.0	150.0	149.0	152.0	150.0	151.0
60°	111.8	112.8	112.8	113.7	112.8	112.8	111.8	113.7	113.7	114.8	114.8
62.5°	82.5	85.6	83.5	85.6	83.5	85.6	82.5	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	37.3	39.3	38.2	39.3	37.3	36.3	37.3	37.3	40.3	39.3
70°	29.2	26.2	26.2	29.2	26.2	26.2	29.2	27.2	26.2	28.2	27.2
72.5°	17.1	15.1	17.1	17.1	17.1	15.1	17.1	15.1	16.1	16.1	18.1
75°	9.1	8.0	7.0	10.1	7.0	8.0	9.1	9.1	9.1	9.1	10.1
77.5°	6.1	5.0	7.0	7.0	7.0	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: P245860

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2082.9	2079.9	2081.0	2074.9	2074.9	2072.9	2073.9	2068.9	2066.9	2064.8	2067.9
5°	2113.2	2108.1	2104.1	2095.0	2090.0	2084.0	2081.0	2072.9	2065.8	2059.8	2058.8
7.5°	2137.3	2126.2	2119.2	2107.1	2098.1	2091.0	2081.0	2069.8	2060.8	2052.7	2046.7
10°	2147.4	2136.3	2125.3	2110.1	2100.1	2087.0	2076.9	2062.8	2050.7	2039.7	2032.6
12.5°	2148.4	2134.3	2124.2	2107.1	2094.0	2079.9	2068.9	2052.7	2038.6	2027.6	2016.5
15°	2139.3	2126.2	2114.1	2096.0	2082.9	2069.8	2056.8	2039.7	2026.6	2013.5	2005.5
17.5°	2119.2	2107.1	2093.0	2075.9	2063.8	2051.7	2037.7	2023.6	2008.4	1994.3	1984.3
20°	2093.0	2079.9	2067.9	2050.7	2040.7	2027.6	2014.5	1999.4	1987.3	1973.2	1962.2
22.5°	2053.8	2041.7	2030.6	2020.5	2004.4	1994.3	1985.3	1968.2	1956.1	1943.0	1930.9
25°	1997.4	1985.3	1976.2	1964.1	1957.1	1946.0	1937.0	1921.9	1910.8	1898.7	1888.6
27.5°	1904.8	1897.7	1892.7	1885.6	1879.6	1874.5	1869.5	1857.4	1849.4	1838.3	1828.3
30°	1765.8	1764.8	1761.8	1758.8	1762.8	1762.8	1762.8	1760.8	1753.8	1745.7	1738.6
32.5°	1587.6	1589.7	1593.7	1596.7	1604.7	1613.8	1621.9	1625.9	1625.9	1620.9	1617.8
35°	1375.2	1378.2	1384.3	1392.3	1402.4	1413.5	1431.6	1435.6	1438.6	1438.6	1434.6
37.5°	1154.7	1153.7	1159.8	1166.8	1172.9	1180.9	1194.0	1197.0	1202.0	1200.1	1196.0
40°	940.3	935.3	933.2	935.3	942.3	939.3	942.3	940.3	940.3	933.2	933.2
42.5°	742.0	735.9	731.9	728.9	728.9	721.8	716.8	711.8	708.8	703.7	702.7
45°	571.9	564.8	559.8	557.7	554.7	545.7	539.6	533.6	526.5	524.5	525.5
47.5°	444.0	436.9	434.9	429.9	424.8	419.8	415.8	408.7	407.7	403.7	407.7
50°	342.3	340.3	337.3	335.2	332.2	328.2	324.2	320.2	318.1	318.1	319.1
52.5°	265.8	266.8	263.8	260.7	258.7	258.7	253.7	252.7	252.7	248.7	252.7
55°	203.4	202.3	203.4	201.3	201.3	198.3	198.3	195.3	195.3	192.3	194.3
57.5°	149.0	151.0	149.0	150.0	152.0	149.0	148.0	145.0	147.0	145.0	146.0
60°	115.8	115.8	115.8	114.8	114.8	113.7	113.7	112.8	112.8	110.7	112.8
62.5°	85.6	86.6	86.6	86.6	87.6	86.6	85.6	86.6	85.6	85.6	86.6
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	40.3	39.3	40.3	41.3	40.3	41.3	43.3	41.3
70°	28.2	29.2	29.2	28.2	27.2	28.2	27.2	30.2	30.2	30.2	32.2
72.5°	18.1	18.1	17.1	17.1	17.1	17.1	17.1	20.1	18.1	17.1	19.1
75°	10.1	11.1	11.1	8.0	9.1	11.1	8.0	9.1	12.1	10.1	12.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	8.0	7.0	7.0	7.0	8.0
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: P245860

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2059.8	2059.8	2058.8	2056.8	2052.7	2052.7	2051.7	2048.7	2046.7	2045.7	2045.7
5°	2049.7	2045.7	2041.7	2030.6	2030.6	2028.6	2022.6	2018.5	2016.5	2011.5	2009.5
7.5°	2040.7	2028.6	2021.5	2014.5	2005.5	2001.4	1994.3	1991.3	1984.3	1979.3	1976.2
10°	2018.5	2010.5	2001.4	1990.3	1983.3	1975.2	1967.2	1961.2	1952.1	1947.0	1943.0
12.5°	2003.4	1991.3	1983.3	1971.2	1959.1	1952.1	1941.0	1934.0	1924.9	1914.8	1908.8
15°	1989.3	1976.2	1965.2	1952.1	1939.0	1930.9	1917.9	1909.8	1896.7	1886.6	1879.6
17.5°	1968.2	1957.1	1945.0	1928.9	1916.9	1906.8	1892.7	1882.6	1870.5	1857.4	1850.4
20°	1946.0	1932.9	1920.9	1904.8	1892.7	1880.6	1866.5	1855.4	1841.3	1829.3	1821.2
22.5°	1916.9	1901.7	1891.7	1875.5	1861.5	1848.4	1835.3	1822.2	1809.1	1799.0	1790.0
25°	1874.5	1858.4	1847.4	1834.3	1821.2	1811.1	1795.0	1787.0	1773.9	1764.8	1755.7
27.5°	1814.1	1802.1	1792.0	1778.9	1767.8	1759.8	1747.7	1739.7	1728.6	1720.5	1713.5
30°	1725.6	1715.5	1706.4	1693.3	1685.3	1678.3	1667.2	1660.1	1652.1	1643.0	1641.0
32.5°	1606.8	1598.7	1589.7	1580.6	1574.5	1570.5	1561.4	1557.4	1549.4	1544.3	1539.3
35°	1427.6	1420.5	1415.5	1411.5	1409.4	1410.4	1408.5	1412.5	1414.5	1413.5	1414.5
37.5°	1193.0	1189.0	1191.0	1194.0	1204.1	1217.2	1229.2	1247.3	1259.4	1271.5	1282.6
40°	931.2	934.3	942.3	960.4	986.6	1015.8	1043.0	1077.2	1111.5	1135.6	1157.7
42.5°	702.7	711.8	731.9	758.1	797.4	840.6	882.9	933.2	974.5	1014.8	1043.0
45°	528.5	540.6	566.8	603.1	646.3	696.7	750.0	806.4	855.7	897.0	928.2
47.5°	411.8	422.8	449.0	487.3	540.6	593.0	648.3	706.7	758.1	798.4	825.5
50°	325.2	339.3	362.4	402.7	456.1	511.4	568.8	626.2	674.5	708.8	732.9
52.5°	255.7	268.8	290.9	333.2	387.6	443.0	496.3	552.7	595.0	628.2	644.3
55°	198.3	210.4	233.5	268.8	320.2	374.5	427.9	476.2	515.5	539.6	554.7
57.5°	151.0	160.1	176.2	211.4	257.7	308.1	353.4	401.7	431.9	449.0	459.1
60°	114.8	121.8	138.9	166.1	208.4	251.7	289.9	326.2	350.4	364.5	374.5
62.5°	86.6	94.6	106.7	129.9	162.1	197.3	229.5	256.7	276.9	285.9	293.0
65°	59.4	65.4	74.5	92.6	119.8	145.0	170.1	190.3	203.4	213.4	217.5
67.5°	44.3	48.3	53.4	67.5	86.6	106.7	123.8	137.9	152.0	156.1	163.1
70°	33.2	36.3	41.3	51.3	62.4	76.5	90.6	98.7	108.7	115.8	117.8
72.5°	21.1	22.1	27.2	33.2	42.3	51.3	60.4	67.5	73.5	77.5	79.5
75°	12.1	18.1	18.1	24.2	30.2	34.2	40.3	45.3	48.3	51.3	51.3
77.5°	8.0	11.1	12.1	15.1	18.1	23.2	28.2	31.2	34.2	35.2	35.2
80°	7.0	8.0	8.0	11.1	13.1	17.1	20.1	21.1	23.2	24.2	26.2
82.5°	3.0	4.0	5.0	8.0	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	7.0	8.0	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: P245860

CATALOG NUMBER: LD8B40D010 ER8B40935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2043.7	2044.7	2040.7	2039.7	2037.7	2038.6	2040.7
5°	2006.4	2007.4	2003.4	1999.4	1999.4	1998.4	1999.4
7.5°	1971.2	1972.2	1966.2	1964.1	1960.1	1961.2	1961.2
10°	1936.0	1936.0	1926.9	1925.9	1922.9	1921.9	1921.9
12.5°	1901.7	1898.7	1891.7	1887.6	1889.7	1883.6	1883.6
15°	1871.5	1866.5	1857.4	1854.4	1849.4	1847.4	1847.4
17.5°	1840.3	1836.3	1828.3	1822.2	1816.2	1815.2	1816.2
20°	1810.1	1806.1	1796.0	1792.0	1787.0	1787.0	1785.0
22.5°	1779.9	1775.9	1766.9	1763.8	1756.8	1756.8	1757.8
25°	1748.7	1745.7	1735.6	1733.6	1732.6	1728.6	1730.6
27.5°	1706.4	1704.4	1696.4	1693.3	1689.3	1688.3	1690.3
30°	1628.9	1625.9	1619.9	1616.8	1609.8	1610.8	1612.8
32.5°	1532.3	1528.2	1520.2	1517.1	1511.1	1509.1	1510.1
35°	1411.5	1408.5	1401.4	1401.4	1395.4	1393.3	1395.4
37.5°	1288.7	1291.6	1288.7	1291.6	1288.7	1287.6	1288.7
40°	1172.9	1183.9	1185.9	1197.0	1193.0	1199.0	1198.0
42.5°	1062.1	1080.2	1087.3	1096.3	1094.3	1098.4	1101.4
45°	950.3	965.5	972.5	978.6	979.6	981.6	982.6
47.5°	844.6	856.7	857.7	864.8	863.8	863.8	866.8
50°	746.0	754.1	756.0	761.1	757.1	755.0	756.0
52.5°	654.4	662.4	660.4	662.4	657.4	655.4	656.4
55°	560.7	564.8	564.8	564.8	558.8	558.8	558.8
57.5°	465.1	466.1	464.1	465.1	464.1	458.1	457.1
60°	377.5	377.5	376.5	377.5	374.5	371.5	371.5
62.5°	295.0	297.0	301.0	297.0	295.0	297.0	294.0
65°	220.5	224.5	223.5	225.5	224.5	224.5	222.5
67.5°	166.1	167.1	168.1	169.2	169.2	169.2	169.2
70°	121.8	124.9	123.8	123.8	123.8	123.8	129.9
72.5°	81.6	85.6	84.6	86.6	86.6	88.6	86.6
75°	55.4	59.4	57.4	60.4	59.4	57.4	62.4
77.5°	37.3	39.3	40.3	41.3	40.3	39.3	40.3
80°	26.2	28.2	27.2	28.2	28.2	28.2	29.2
82.5°	16.1	19.1	18.1	19.1	18.1	19.1	19.1
85°	11.1	12.1	10.1	12.1	11.1	11.1	13.1
87.5°	7.0	6.1	6.1	7.0	6.1	7.0	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)