

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: P245896

Luminaire Tested: **LD8B40D010 ER8B40830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245896
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 ER8B40830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

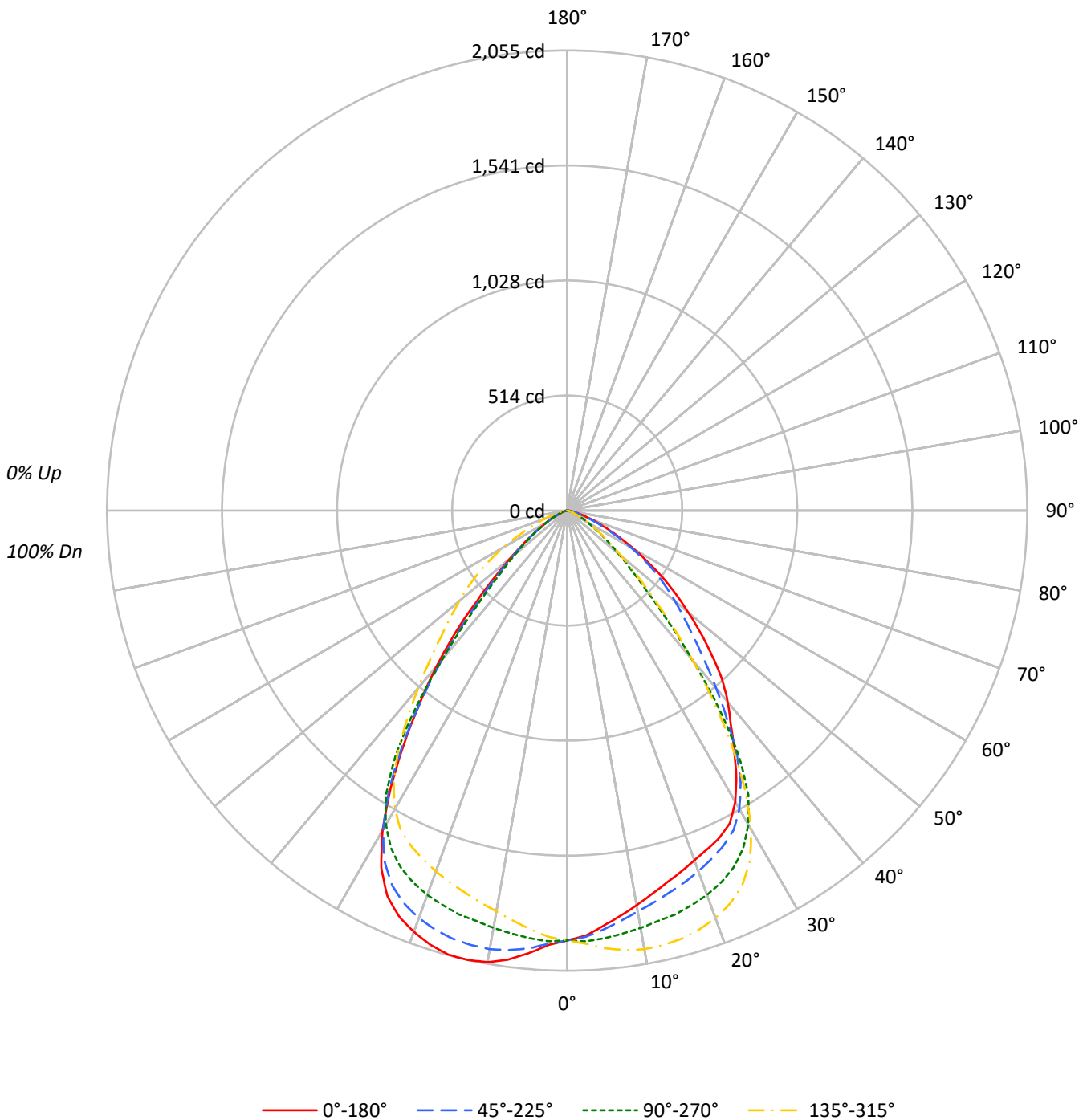
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

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°	59184	59184	59184	59184
5°	57612	59324	61441	59324
10°	56020	59245	64118	59245
15°	54900	59599	65521	59599
20°	54526	59940	65690	59940
25°	54813	59818	64636	59818
30°	53456	57629	58666	57629
35°	48896	50274	47699	50274
40°	44891	34969	36518	34969
45°	39889	21334	24683	21334
50°	33763	14253	15826	14253
55°	27961	9725	10279	9725
60°	21326	6476	6531	6476
65°	15111	4035	3692	4035
70°	10900	2705	2452	2705
75°	6922	1346	1120	1346
80°	4830	994	835	994
85°	4316	0	318	0



TEST NUMBER: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	5.7
10°-20°	529.0	16.4
20°-30°	801.0	24.8
30°-40°	802.8	24.8
40°-50°	504.1	15.6
50°-60°	268.7	8.3
60°-70°	110.5	3.4
70°-80°	29.2	0.9
80°-90°	4.9	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°	1512.8	46.8
0°-40°	2315.6	71.6
0°-60°	3088.4	95.5
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1919	1919	1919	1919	1919	
5°	1861	1916	1985	1916	1861	176
15°	1720	1867	2052	1867	1720	486
25°	1611	1758	1900	1758	1611	739
35°	1299	1336	1267	1336	1299	814
45°	915	489	566	489	915	703
55°	520	181	191	181	520	464
65°	207	55	51	55	207	215
75°	58	11	9	11	58	66
85°	12	0	1	0	12	13
90°	0	0	0	0	0	



TEST NUMBER: P245896

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1899.7	1897.8	1896.8	1898.7	1899.7	1903.4	1902.5	1904.3	1904.3	1905.3	1907.1
5°	1861.2	1860.3	1861.2	1861.2	1865.0	1868.7	1867.8	1870.6	1872.5	1877.2	1879.0
7.5°	1825.6	1825.6	1824.7	1828.4	1830.3	1835.9	1835.0	1839.7	1842.5	1847.2	1853.7
10°	1789.1	1789.1	1790.0	1792.8	1793.8	1802.2	1802.2	1808.7	1812.5	1817.2	1825.6
12.5°	1753.5	1753.5	1759.1	1757.2	1760.9	1767.5	1770.3	1776.9	1782.5	1791.9	1800.3
15°	1719.7	1719.7	1721.6	1726.3	1729.1	1737.5	1742.2	1749.7	1756.3	1765.6	1777.8
17.5°	1690.7	1689.7	1690.7	1696.3	1701.9	1709.4	1713.1	1722.5	1729.1	1741.3	1752.5
20°	1661.6	1663.5	1663.5	1668.2	1671.9	1681.3	1685.0	1695.4	1702.8	1714.1	1727.2
22.5°	1636.3	1635.4	1635.4	1641.9	1644.8	1653.2	1656.9	1666.3	1674.7	1684.1	1696.3
25°	1611.0	1609.1	1612.9	1613.8	1615.7	1625.0	1627.9	1634.4	1642.9	1651.3	1663.5
27.5°	1573.5	1571.7	1572.6	1576.3	1579.1	1586.6	1588.5	1595.1	1601.6	1609.1	1619.4
30°	1501.3	1499.5	1498.6	1505.1	1507.9	1513.5	1516.3	1527.6	1529.5	1537.9	1545.4
32.5°	1405.7	1404.8	1406.7	1412.3	1415.1	1422.6	1426.4	1432.9	1437.6	1442.3	1449.8
35°	1298.9	1297.0	1298.9	1304.6	1304.6	1311.1	1313.9	1316.7	1315.8	1316.7	1314.9
37.5°	1199.6	1198.6	1199.6	1202.4	1199.6	1202.4	1199.6	1194.0	1183.7	1172.4	1161.1
40°	1115.2	1116.2	1110.6	1114.3	1104.0	1102.1	1091.8	1077.7	1057.1	1034.7	1002.8
42.5°	1025.3	1022.5	1018.7	1020.6	1012.2	1005.6	988.7	970.9	944.7	907.2	868.7
45°	914.7	913.8	911.9	910.9	905.3	898.8	884.7	864.1	835.0	796.6	750.7
47.5°	806.9	804.1	804.1	805.0	798.5	797.5	786.3	768.5	743.2	705.7	657.9
50°	703.8	702.9	704.8	708.5	703.8	701.9	694.5	682.3	659.8	627.9	582.9
52.5°	611.0	610.1	612.0	616.7	614.8	616.7	609.2	599.8	584.8	553.9	514.5
55°	520.1	520.1	520.1	525.7	525.7	525.7	522.0	516.4	502.3	479.8	443.3
57.5°	425.5	426.4	432.0	433.0	432.0	433.9	433.0	427.3	418.0	402.1	373.9
60°	345.8	345.8	348.6	351.5	350.5	351.5	351.5	348.6	339.3	326.2	303.7
62.5°	273.6	276.5	274.6	276.5	280.2	276.5	274.6	272.7	266.2	257.7	239.0
65°	207.1	209.0	209.0	209.9	208.0	209.0	205.3	202.4	198.7	189.3	177.1
67.5°	157.5	157.5	157.5	157.5	156.5	155.6	154.6	151.8	145.3	141.5	128.4
70°	120.9	115.3	115.3	115.3	115.3	116.2	113.4	109.7	107.8	101.2	91.8
72.5°	80.6	82.5	80.6	80.6	78.7	79.7	75.9	74.0	72.2	68.4	62.8
75°	58.1	53.4	55.3	56.2	53.4	55.3	51.5	47.8	47.8	45.0	42.2
77.5°	37.5	36.6	37.5	38.4	37.5	36.6	34.7	32.8	32.8	31.9	29.0
80°	27.2	26.2	26.2	26.2	25.3	26.2	24.4	24.4	22.5	21.6	19.7
82.5°	17.8	17.8	16.9	17.8	16.9	17.8	15.0	15.0	15.0	14.0	12.2
85°	12.2	10.3	10.3	11.3	9.4	11.3	10.3	9.4	8.4	8.4	7.5
87.5°	5.6	6.6	5.6	6.6	5.6	5.6	6.6	5.6	5.6	3.7	3.7
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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1910.0	1910.9	1910.9	1914.7	1916.5	1917.4	1917.4	1925.0	1922.1	1924.0	1925.9
5°	1882.8	1888.4	1890.3	1890.3	1900.6	1904.3	1908.1	1916.5	1917.4	1923.1	1929.6
7.5°	1856.5	1863.1	1866.9	1875.3	1881.8	1888.4	1899.7	1905.3	1910.9	1918.4	1926.8
10°	1831.2	1838.7	1846.2	1852.8	1863.1	1871.5	1879.0	1892.1	1898.7	1909.0	1920.3
12.5°	1806.9	1817.2	1823.7	1835.0	1846.2	1853.7	1865.0	1877.2	1887.5	1897.8	1910.9
15°	1785.3	1797.5	1805.0	1817.2	1829.4	1839.7	1851.9	1866.9	1874.4	1886.5	1898.7
17.5°	1761.9	1775.0	1784.4	1795.6	1810.6	1821.9	1832.2	1847.2	1856.5	1869.6	1883.7
20°	1737.5	1750.6	1761.9	1773.1	1788.1	1799.4	1811.6	1826.6	1836.9	1850.0	1861.2
22.5°	1708.5	1720.7	1732.8	1745.9	1760.9	1770.3	1784.4	1797.5	1808.7	1820.9	1832.2
25°	1671.0	1686.0	1695.4	1707.5	1719.7	1730.0	1745.0	1758.1	1767.5	1778.8	1789.1
27.5°	1626.9	1638.2	1645.7	1656.0	1668.2	1677.5	1688.8	1701.9	1711.3	1721.6	1729.1
30°	1551.9	1562.3	1568.8	1576.3	1588.5	1597.0	1606.3	1618.5	1625.0	1632.6	1639.1
32.5°	1453.5	1462.0	1465.7	1471.4	1479.8	1488.2	1495.7	1506.0	1508.9	1513.5	1513.5
35°	1311.1	1313.0	1312.0	1313.9	1317.7	1322.3	1328.9	1335.5	1339.2	1339.2	1336.4
37.5°	1144.3	1133.1	1120.9	1111.5	1108.7	1106.8	1110.6	1113.3	1117.1	1119.0	1114.3
40°	970.9	945.6	918.4	894.0	877.2	869.7	866.9	868.7	868.7	875.3	875.3
42.5°	821.9	782.5	742.3	705.7	681.3	662.6	654.2	654.2	655.1	659.8	662.6
45°	698.2	648.5	601.7	561.4	527.6	503.2	492.0	489.2	488.3	490.1	496.7
47.5°	603.5	552.0	503.2	453.6	418.0	393.6	383.3	379.5	375.8	379.5	380.5
50°	529.5	476.1	424.6	374.9	337.4	315.8	302.7	297.1	296.1	296.1	298.0
52.5°	462.0	412.4	360.8	310.2	270.8	250.2	238.0	235.2	231.5	235.2	235.2
55°	398.3	348.6	298.0	250.2	217.4	195.9	184.6	180.9	179.0	181.8	181.8
57.5°	329.0	286.8	239.9	196.8	164.0	149.0	140.6	135.9	134.9	136.8	134.9
60°	269.9	234.3	194.0	154.6	129.3	113.4	106.9	105.0	103.1	105.0	105.0
62.5°	213.7	183.7	150.9	120.9	99.3	88.1	80.6	80.6	79.7	79.7	80.6
65°	158.4	134.9	111.5	86.2	69.4	60.9	55.3	55.3	54.4	55.3	54.4
67.5°	115.3	99.3	80.6	62.8	49.7	45.0	41.2	38.4	40.3	38.4	37.5
70°	84.4	71.2	58.1	47.8	38.4	33.8	30.9	30.0	28.1	28.1	28.1
72.5°	56.2	47.8	39.3	30.9	25.3	20.6	19.7	17.8	15.9	16.9	18.7
75°	37.5	31.9	28.1	22.5	16.9	16.9	11.3	11.3	9.4	11.3	8.4
77.5°	26.2	21.6	16.9	14.0	11.3	10.3	7.5	7.5	6.6	6.6	6.6
80°	18.7	15.9	12.2	10.3	7.5	7.5	6.6	5.6	4.7	4.7	5.6
82.5°	11.3	8.4	8.4	7.5	4.7	3.7	2.8	3.7	1.9	1.9	1.9
85°	6.6	5.6	4.7	2.8	1.9	1.9	0.9	0.0	0.9	0.9	0.0
87.5°	3.7	1.9	1.9	0.9	0.0	0.9	0.9	0.0	0.0	0.0	1.9
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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1930.6	1929.6	1931.5	1931.5	1937.2	1936.2	1939.0	1939.0	1937.2	1938.1	1941.8
5°	1937.2	1940.0	1945.6	1950.3	1958.7	1962.5	1967.1	1971.8	1972.8	1975.6	1978.4
7.5°	1937.2	1946.5	1953.1	1961.5	1972.8	1979.3	1989.6	1998.1	2001.8	2006.5	2012.1
10°	1933.4	1942.7	1954.9	1964.3	1978.4	1988.7	1999.0	2012.1	2017.7	2025.2	2032.7
12.5°	1925.9	1936.2	1949.3	1961.5	1977.4	1986.8	1999.9	2012.1	2020.6	2030.8	2039.3
15°	1914.7	1926.8	1939.0	1951.2	1968.0	1979.3	1991.5	2005.5	2014.0	2025.2	2032.7
17.5°	1896.8	1910.0	1921.2	1932.4	1948.4	1961.5	1972.8	1985.9	1994.3	2003.7	2014.0
20°	1875.3	1887.5	1899.7	1909.0	1925.0	1936.2	1948.4	1960.6	1967.1	1969.0	1984.9
22.5°	1848.1	1856.5	1865.9	1880.9	1890.3	1900.6	1911.8	1923.1	1929.6	1940.0	1945.6
25°	1803.1	1811.6	1821.9	1828.4	1839.7	1848.1	1859.3	1871.5	1875.3	1882.8	1888.4
27.5°	1740.3	1745.0	1749.7	1755.3	1761.9	1766.6	1773.1	1778.8	1782.5	1786.2	1790.0
30°	1641.0	1641.0	1641.0	1637.2	1640.0	1642.9	1643.8	1642.9	1642.9	1641.9	1641.9
32.5°	1509.8	1502.3	1493.8	1486.4	1483.5	1479.8	1477.9	1475.1	1470.4	1467.6	1468.5
35°	1332.6	1315.8	1305.5	1296.1	1288.6	1283.0	1280.2	1277.4	1276.4	1272.7	1268.9
37.5°	1111.5	1099.3	1091.8	1086.2	1079.6	1074.0	1074.9	1075.9	1078.7	1076.8	1077.7
40°	877.2	874.4	877.2	870.6	868.7	870.6	875.3	881.9	885.6	889.4	895.9
42.5°	667.3	671.9	678.5	678.5	681.3	685.1	690.7	701.0	706.6	713.2	720.7
45°	502.3	508.0	516.4	519.2	521.1	525.7	532.3	540.7	544.5	550.1	556.7
47.5°	387.1	390.8	395.5	400.2	404.8	406.7	413.3	413.3	418.0	421.7	423.6
50°	301.8	305.5	309.3	312.1	314.0	316.8	318.6	321.4	322.4	324.3	325.2
52.5°	236.2	240.9	240.9	242.7	245.5	248.3	247.4	248.3	249.3	249.3	252.1
55°	184.6	184.6	187.4	187.4	189.3	188.4	189.3	189.3	189.3	189.3	190.3
57.5°	137.8	138.7	141.5	139.6	138.7	140.6	138.7	140.6	139.6	141.5	138.7
60°	105.9	105.9	106.9	106.9	107.8	107.8	107.8	106.9	106.9	105.9	105.9
62.5°	79.7	80.6	81.5	80.6	80.6	80.6	79.7	79.7	78.7	77.8	77.8
65°	53.4	52.5	54.4	52.5	53.4	53.4	52.5	53.4	50.6	51.5	50.6
67.5°	38.4	37.5	36.6	37.5	36.6	35.6	35.6	36.6	37.5	34.7	34.7
70°	25.3	26.2	25.3	26.2	27.2	27.2	26.2	25.3	26.2	24.4	25.3
72.5°	15.9	15.9	15.9	15.9	15.9	16.9	16.9	16.9	15.0	15.0	14.0
75°	7.5	10.3	8.4	7.5	10.3	10.3	9.4	9.4	8.4	8.4	8.4
77.5°	7.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.7	5.6	4.7
80°	3.7	3.7	3.7	2.8	3.7	3.7	4.7	3.7	3.7	2.8	4.7
82.5°	1.9	1.9	1.9	0.0	0.9	1.9	1.9	0.9	1.9	1.9	0.9
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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1940.9	1940.0	1940.9	1941.8	1940.9	1940.0	1940.9	1941.8	1938.1	1937.2	1939.0
5°	1982.1	1982.1	1984.0	1984.9	1984.0	1982.1	1982.1	1978.4	1975.6	1972.8	1971.8
7.5°	2017.7	2019.6	2021.5	2022.4	2021.5	2019.6	2017.7	2012.1	2006.5	2001.8	1998.1
10°	2039.3	2042.1	2045.9	2047.7	2045.9	2042.1	2039.3	2032.7	2025.2	2017.7	2012.1
12.5°	2048.7	2051.5	2056.2	2055.2	2056.2	2051.5	2048.7	2039.3	2030.8	2020.6	2012.1
15°	2042.1	2045.9	2050.5	2052.4	2050.5	2045.9	2042.1	2032.7	2025.2	2014.0	2005.5
17.5°	2021.5	2027.1	2029.9	2032.7	2029.9	2027.1	2021.5	2014.0	2003.7	1994.3	1985.9
20°	1993.4	1997.1	2000.9	2001.8	2000.9	1997.1	1993.4	1984.9	1969.0	1967.1	1960.6
22.5°	1953.1	1955.9	1964.3	1961.5	1964.3	1955.9	1953.1	1945.6	1940.0	1929.6	1923.1
25°	1895.0	1897.8	1898.7	1899.7	1898.7	1897.8	1895.0	1888.4	1882.8	1875.3	1871.5
27.5°	1794.7	1794.7	1796.5	1797.5	1796.5	1794.7	1794.7	1790.0	1786.2	1782.5	1778.8
30°	1642.9	1642.9	1642.9	1647.6	1642.9	1642.9	1642.9	1641.9	1641.9	1642.9	1642.9
32.5°	1467.6	1465.7	1463.9	1465.7	1463.9	1465.7	1467.6	1468.5	1467.6	1470.4	1475.1
35°	1268.9	1268.0	1270.8	1267.1	1270.8	1268.0	1268.9	1268.9	1272.7	1276.4	1277.4
37.5°	1078.7	1076.8	1080.6	1076.8	1080.6	1076.8	1078.7	1077.7	1076.8	1078.7	1075.9
40°	897.8	899.7	899.7	907.2	899.7	899.7	897.8	895.9	889.4	885.6	881.9
42.5°	724.4	730.1	728.2	733.8	728.2	730.1	724.4	720.7	713.2	706.6	701.0
45°	560.4	564.2	564.2	566.0	564.2	564.2	560.4	556.7	550.1	544.5	540.7
47.5°	430.1	430.1	430.1	431.1	430.1	430.1	430.1	423.6	421.7	418.0	413.3
50°	327.1	328.0	329.0	329.9	329.0	328.0	327.1	325.2	324.3	322.4	321.4
52.5°	251.2	252.1	250.2	252.1	250.2	252.1	251.2	252.1	249.3	249.3	248.3
55°	190.3	189.3	190.3	191.2	190.3	189.3	190.3	190.3	189.3	189.3	189.3
57.5°	139.6	137.8	137.8	137.8	137.8	137.8	139.6	138.7	141.5	139.6	140.6
60°	104.0	105.0	105.0	105.9	105.0	105.0	104.0	105.9	105.9	106.9	106.9
62.5°	76.8	79.7	77.8	79.7	77.8	79.7	76.8	77.8	77.8	78.7	79.7
65°	49.7	49.7	49.7	50.6	49.7	49.7	49.7	50.6	51.5	50.6	53.4
67.5°	33.8	34.7	36.6	35.6	36.6	34.7	33.8	34.7	34.7	37.5	36.6
70°	27.2	24.4	24.4	27.2	24.4	24.4	27.2	25.3	24.4	26.2	25.3
72.5°	15.9	14.0	15.9	15.9	15.9	14.0	15.9	14.0	15.0	15.0	16.9
75°	8.4	7.5	6.6	9.4	6.6	7.5	8.4	8.4	8.4	8.4	9.4
77.5°	5.6	4.7	6.6	6.6	6.6	4.7	5.6	4.7	5.6	4.7	5.6
80°	2.8	3.7	2.8	4.7	2.8	3.7	2.8	4.7	2.8	3.7	3.7
82.5°	0.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	1.9	1.9	0.9
85°	0.0	1.9	0.9	0.9	0.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.9	0.0	0.0	0.9	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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1939.0	1936.2	1937.2	1931.5	1931.5	1929.6	1930.6	1925.9	1924.0	1922.1	1925.0
5°	1967.1	1962.5	1958.7	1950.3	1945.6	1940.0	1937.2	1929.6	1923.1	1917.4	1916.5
7.5°	1989.6	1979.3	1972.8	1961.5	1953.1	1946.5	1937.2	1926.8	1918.4	1910.9	1905.3
10°	1999.0	1988.7	1978.4	1964.3	1954.9	1942.7	1933.4	1920.3	1909.0	1898.7	1892.1
12.5°	1999.9	1986.8	1977.4	1961.5	1949.3	1936.2	1925.9	1910.9	1897.8	1887.5	1877.2
15°	1991.5	1979.3	1968.0	1951.2	1939.0	1926.8	1914.7	1898.7	1886.5	1874.4	1866.9
17.5°	1972.8	1961.5	1948.4	1932.4	1921.2	1910.0	1896.8	1883.7	1869.6	1856.5	1847.2
20°	1948.4	1936.2	1925.0	1909.0	1899.7	1887.5	1875.3	1861.2	1850.0	1836.9	1826.6
22.5°	1911.8	1900.6	1890.3	1880.9	1865.9	1856.5	1848.1	1832.2	1820.9	1808.7	1797.5
25°	1859.3	1848.1	1839.7	1828.4	1821.9	1811.6	1803.1	1789.1	1778.8	1767.5	1758.1
27.5°	1773.1	1766.6	1761.9	1755.3	1749.7	1745.0	1740.3	1729.1	1721.6	1711.3	1701.9
30°	1643.8	1642.9	1640.0	1637.2	1641.0	1641.0	1641.0	1639.1	1632.6	1625.0	1618.5
32.5°	1477.9	1479.8	1483.5	1486.4	1493.8	1502.3	1509.8	1513.5	1513.5	1508.9	1506.0
35°	1280.2	1283.0	1288.6	1296.1	1305.5	1315.8	1332.6	1336.4	1339.2	1339.2	1335.5
37.5°	1074.9	1074.0	1079.6	1086.2	1091.8	1099.3	1111.5	1114.3	1119.0	1117.1	1113.3
40°	875.3	870.6	868.7	870.6	877.2	874.4	877.2	875.3	875.3	868.7	868.7
42.5°	690.7	685.1	681.3	678.5	678.5	671.9	667.3	662.6	659.8	655.1	654.2
45°	532.3	525.7	521.1	519.2	516.4	508.0	502.3	496.7	490.1	488.3	489.2
47.5°	413.3	406.7	404.8	400.2	395.5	390.8	387.1	380.5	379.5	375.8	379.5
50°	318.6	316.8	314.0	312.1	309.3	305.5	301.8	298.0	296.1	296.1	297.1
52.5°	247.4	248.3	245.5	242.7	240.9	240.9	236.2	235.2	235.2	231.5	235.2
55°	189.3	188.4	189.3	187.4	187.4	184.6	184.6	181.8	181.8	179.0	180.9
57.5°	138.7	140.6	138.7	139.6	141.5	138.7	137.8	134.9	136.8	134.9	135.9
60°	107.8	107.8	107.8	106.9	106.9	105.9	105.9	105.0	105.0	103.1	105.0
62.5°	79.7	80.6	80.6	80.6	81.5	80.6	79.7	80.6	79.7	79.7	80.6
65°	52.5	53.4	53.4	52.5	54.4	52.5	53.4	54.4	55.3	54.4	55.3
67.5°	35.6	35.6	36.6	37.5	36.6	37.5	38.4	37.5	38.4	40.3	38.4
70°	26.2	27.2	27.2	26.2	25.3	26.2	25.3	28.1	28.1	28.1	30.0
72.5°	16.9	16.9	15.9	15.9	15.9	15.9	15.9	18.7	16.9	15.9	17.8
75°	9.4	10.3	10.3	7.5	8.4	10.3	7.5	8.4	11.3	9.4	11.3
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	7.5	6.6	6.6	6.6	7.5
80°	4.7	3.7	3.7	2.8	3.7	3.7	3.7	5.6	4.7	4.7	5.6
82.5°	1.9	1.9	0.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1917.4	1917.4	1916.5	1914.7	1910.9	1910.9	1910.0	1907.1	1905.3	1904.3	1904.3
5°	1908.1	1904.3	1900.6	1890.3	1890.3	1888.4	1882.8	1879.0	1877.2	1872.5	1870.6
7.5°	1899.7	1888.4	1881.8	1875.3	1866.9	1863.1	1856.5	1853.7	1847.2	1842.5	1839.7
10°	1879.0	1871.5	1863.1	1852.8	1846.2	1838.7	1831.2	1825.6	1817.2	1812.5	1808.7
12.5°	1865.0	1853.7	1846.2	1835.0	1823.7	1817.2	1806.9	1800.3	1791.9	1782.5	1776.9
15°	1851.9	1839.7	1829.4	1817.2	1805.0	1797.5	1785.3	1777.8	1765.6	1756.3	1749.7
17.5°	1832.2	1821.9	1810.6	1795.6	1784.4	1775.0	1761.9	1752.5	1741.3	1729.1	1722.5
20°	1811.6	1799.4	1788.1	1773.1	1761.9	1750.6	1737.5	1727.2	1714.1	1702.8	1695.4
22.5°	1784.4	1770.3	1760.9	1745.9	1732.8	1720.7	1708.5	1696.3	1684.1	1674.7	1666.3
25°	1745.0	1730.0	1719.7	1707.5	1695.4	1686.0	1671.0	1663.5	1651.3	1642.9	1634.4
27.5°	1688.8	1677.5	1668.2	1656.0	1645.7	1638.2	1626.9	1619.4	1609.1	1601.6	1595.1
30°	1606.3	1597.0	1588.5	1576.3	1568.8	1562.3	1551.9	1545.4	1537.9	1529.5	1527.6
32.5°	1495.7	1488.2	1479.8	1471.4	1465.7	1462.0	1453.5	1449.8	1442.3	1437.6	1432.9
35°	1328.9	1322.3	1317.7	1313.9	1312.0	1313.0	1311.1	1314.9	1316.7	1315.8	1316.7
37.5°	1110.6	1106.8	1108.7	1111.5	1120.9	1133.1	1144.3	1161.1	1172.4	1183.7	1194.0
40°	866.9	869.7	877.2	894.0	918.4	945.6	970.9	1002.8	1034.7	1057.1	1077.7
42.5°	654.2	662.6	681.3	705.7	742.3	782.5	821.9	868.7	907.2	944.7	970.9
45°	492.0	503.2	527.6	561.4	601.7	648.5	698.2	750.7	796.6	835.0	864.1
47.5°	383.3	393.6	418.0	453.6	503.2	552.0	603.5	657.9	705.7	743.2	768.5
50°	302.7	315.8	337.4	374.9	424.6	476.1	529.5	582.9	627.9	659.8	682.3
52.5°	238.0	250.2	270.8	310.2	360.8	412.4	462.0	514.5	553.9	584.8	599.8
55°	184.6	195.9	217.4	250.2	298.0	348.6	398.3	443.3	479.8	502.3	516.4
57.5°	140.6	149.0	164.0	196.8	239.9	286.8	329.0	373.9	402.1	418.0	427.3
60°	106.9	113.4	129.3	154.6	194.0	234.3	269.9	303.7	326.2	339.3	348.6
62.5°	80.6	88.1	99.3	120.9	150.9	183.7	213.7	239.0	257.7	266.2	272.7
65°	55.3	60.9	69.4	86.2	111.5	134.9	158.4	177.1	189.3	198.7	202.4
67.5°	41.2	45.0	49.7	62.8	80.6	99.3	115.3	128.4	141.5	145.3	151.8
70°	30.9	33.8	38.4	47.8	58.1	71.2	84.4	91.8	101.2	107.8	109.7
72.5°	19.7	20.6	25.3	30.9	39.3	47.8	56.2	62.8	68.4	72.2	74.0
75°	11.3	16.9	16.9	22.5	28.1	31.9	37.5	42.2	45.0	47.8	47.8
77.5°	7.5	10.3	11.3	14.0	16.9	21.6	26.2	29.0	31.9	32.8	32.8
80°	6.6	7.5	7.5	10.3	12.2	15.9	18.7	19.7	21.6	22.5	24.4
82.5°	2.8	3.7	4.7	7.5	8.4	8.4	11.3	12.2	14.0	15.0	15.0
85°	0.9	1.9	1.9	2.8	4.7	5.6	6.6	7.5	8.4	8.4	9.4
87.5°	0.9	0.9	0.0	0.9	1.9	1.9	3.7	3.7	3.7	5.6	5.6
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: P245896

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1902.5	1903.4	1899.7	1898.7	1896.8	1897.8	1899.7
5°	1867.8	1868.7	1865.0	1861.2	1861.2	1860.3	1861.2
7.5°	1835.0	1835.9	1830.3	1828.4	1824.7	1825.6	1825.6
10°	1802.2	1802.2	1793.8	1792.8	1790.0	1789.1	1789.1
12.5°	1770.3	1767.5	1760.9	1757.2	1759.1	1753.5	1753.5
15°	1742.2	1737.5	1729.1	1726.3	1721.6	1719.7	1719.7
17.5°	1713.1	1709.4	1701.9	1696.3	1690.7	1689.7	1690.7
20°	1685.0	1681.3	1671.9	1668.2	1663.5	1663.5	1661.6
22.5°	1656.9	1653.2	1644.8	1641.9	1635.4	1635.4	1636.3
25°	1627.9	1625.0	1615.7	1613.8	1612.9	1609.1	1611.0
27.5°	1588.5	1586.6	1579.1	1576.3	1572.6	1571.7	1573.5
30°	1516.3	1513.5	1507.9	1505.1	1498.6	1499.5	1501.3
32.5°	1426.4	1422.6	1415.1	1412.3	1406.7	1404.8	1405.7
35°	1313.9	1311.1	1304.6	1304.6	1298.9	1297.0	1298.9
37.5°	1199.6	1202.4	1199.6	1202.4	1199.6	1198.6	1199.6
40°	1091.8	1102.1	1104.0	1114.3	1110.6	1116.2	1115.2
42.5°	988.7	1005.6	1012.2	1020.6	1018.7	1022.5	1025.3
45°	884.7	898.8	905.3	910.9	911.9	913.8	914.7
47.5°	786.3	797.5	798.5	805.0	804.1	804.1	806.9
50°	694.5	701.9	703.8	708.5	704.8	702.9	703.8
52.5°	609.2	616.7	614.8	616.7	612.0	610.1	611.0
55°	522.0	525.7	525.7	525.7	520.1	520.1	520.1
57.5°	433.0	433.9	432.0	433.0	432.0	426.4	425.5
60°	351.5	351.5	350.5	351.5	348.6	345.8	345.8
62.5°	274.6	276.5	280.2	276.5	274.6	276.5	273.6
65°	205.3	209.0	208.0	209.9	209.0	209.0	207.1
67.5°	154.6	155.6	156.5	157.5	157.5	157.5	157.5
70°	113.4	116.2	115.3	115.3	115.3	115.3	120.9
72.5°	75.9	79.7	78.7	80.6	80.6	82.5	80.6
75°	51.5	55.3	53.4	56.2	55.3	53.4	58.1
77.5°	34.7	36.6	37.5	38.4	37.5	36.6	37.5
80°	24.4	26.2	25.3	26.2	26.2	26.2	27.2
82.5°	15.0	17.8	16.9	17.8	16.9	17.8	17.8
85°	10.3	11.3	9.4	11.3	10.3	10.3	12.2
87.5°	6.6	5.6	5.6	6.6	5.6	6.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)