

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: P245884

Luminaire Tested: **LSR8B40D010 EC8B40930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245884
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: LSR8B40D010 EC8B40930 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3363.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

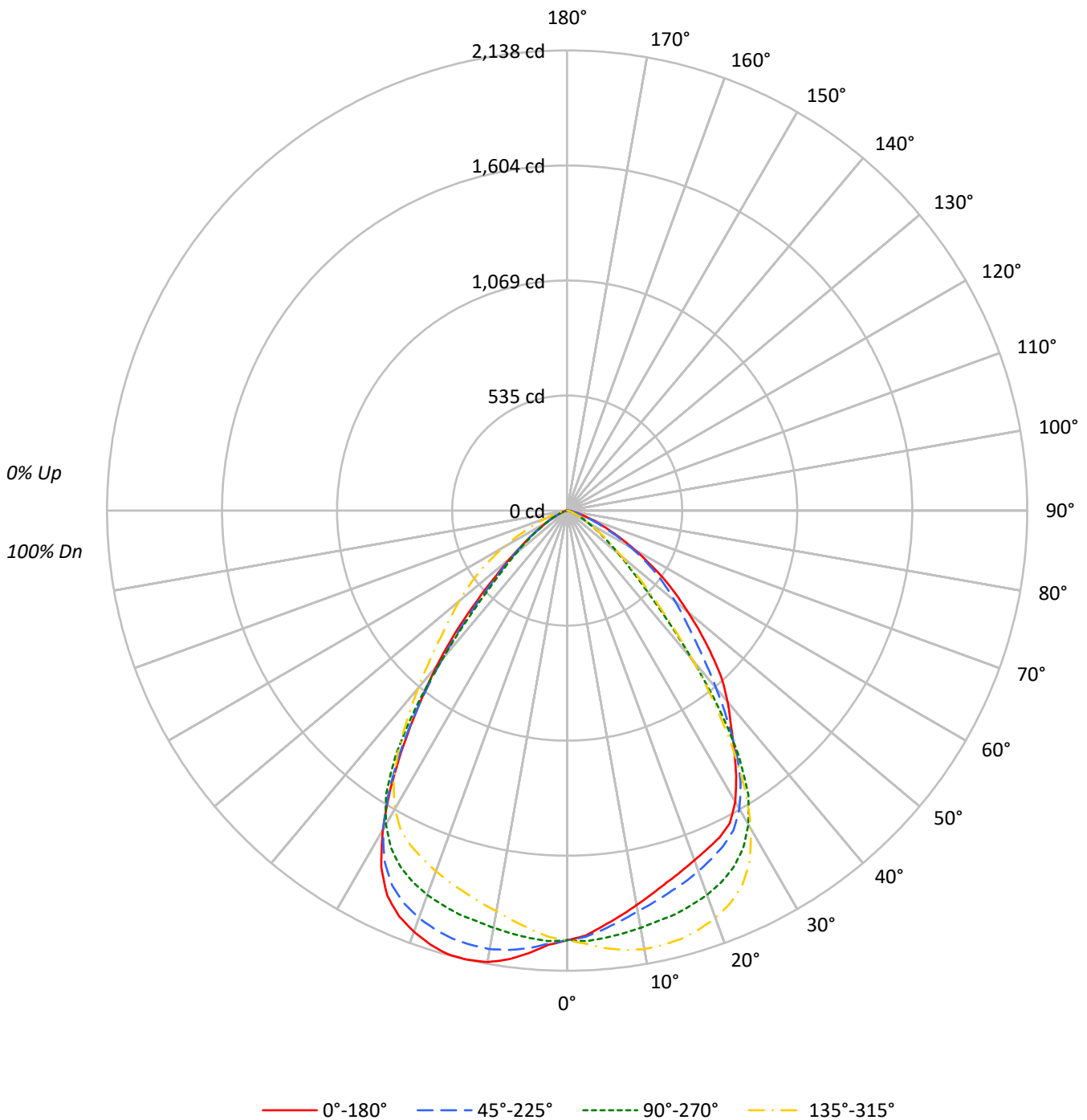
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	190.0	5.7
10°-20°	550.3	16.4
20°-30°	833.3	24.8
30°-40°	835.1	24.8
40°-50°	524.4	15.6
50°-60°	279.5	8.3
60°-70°	114.9	3.4
70°-80°	30.3	0.9
80°-90°	5.1	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°	1573.6	46.8
0°-40°	2408.7	71.6
0°-60°	3212.6	95.5
0°-90°	3363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3363.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1996	1996	1996	1996	1996	
5°	1936	1994	2065	1994	1936	183
15°	1789	1942	2135	1942	1789	506
25°	1676	1829	1976	1829	1676	769
35°	1351	1389	1318	1389	1351	846
45°	952	509	589	509	952	732
55°	541	188	199	188	541	482
65°	216	58	53	58	216	223
75°	60	12	10	12	60	68
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°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	1976.0	1974.1	1973.1	1975.1	1976.0	1979.9	1979.0	1980.9	1980.9	1981.9	1983.8
5°	1936.1	1935.1	1936.1	1936.1	1940.0	1943.8	1942.9	1945.8	1947.7	1952.7	1954.6
7.5°	1899.1	1899.1	1898.1	1901.9	1903.9	1909.7	1908.7	1913.7	1916.6	1921.4	1928.2
10°	1861.0	1861.0	1862.0	1864.9	1865.9	1874.6	1874.6	1881.5	1885.4	1890.2	1899.1
12.5°	1824.0	1824.0	1829.8	1827.9	1831.7	1838.6	1841.5	1848.3	1854.1	1863.9	1872.7
15°	1788.9	1788.9	1790.8	1795.7	1798.6	1807.4	1812.2	1820.1	1826.9	1836.6	1849.3
17.5°	1758.6	1757.7	1758.6	1764.5	1770.4	1778.1	1782.1	1791.8	1798.6	1811.3	1823.0
20°	1728.5	1730.4	1730.4	1735.2	1739.1	1748.9	1752.8	1763.6	1771.3	1783.0	1796.6
22.5°	1702.1	1701.1	1701.1	1708.0	1710.9	1719.6	1723.5	1733.3	1742.0	1751.8	1764.5
25°	1675.8	1673.8	1677.8	1678.7	1680.6	1690.4	1693.3	1700.1	1709.0	1717.7	1730.4
27.5°	1636.8	1634.9	1635.8	1639.7	1642.6	1650.4	1652.4	1659.2	1666.0	1673.8	1684.5
30°	1561.7	1559.8	1558.9	1565.6	1568.6	1574.3	1577.4	1589.0	1590.9	1599.8	1607.5
32.5°	1462.2	1461.3	1463.2	1469.1	1472.0	1479.8	1483.8	1490.6	1495.4	1500.3	1508.1
35°	1351.1	1349.2	1351.1	1357.0	1357.0	1363.8	1366.7	1369.6	1368.7	1369.6	1367.7
37.5°	1247.8	1246.9	1247.8	1250.7	1247.8	1250.7	1247.8	1242.0	1231.3	1219.5	1207.9
40°	1160.1	1161.0	1155.2	1159.1	1148.4	1146.4	1135.7	1121.1	1099.7	1076.3	1043.1
42.5°	1066.5	1063.6	1059.7	1061.6	1052.8	1046.0	1028.5	1010.0	982.7	943.7	903.6
45°	951.5	950.5	948.6	947.6	941.8	934.9	920.2	898.8	868.6	828.6	780.9
47.5°	839.4	836.4	836.4	837.4	830.5	829.7	817.9	799.4	773.0	734.0	684.4
50°	732.1	731.1	733.1	736.9	732.1	730.2	722.4	709.7	686.3	653.2	606.3
52.5°	635.6	634.6	636.6	641.4	639.5	641.4	633.7	623.9	608.3	576.1	535.2
55°	541.1	541.1	541.1	546.8	546.8	546.8	543.0	537.2	522.5	499.2	461.2
57.5°	442.6	443.6	449.4	450.4	449.4	451.4	450.4	444.5	434.8	418.2	389.0
60°	359.7	359.7	362.6	365.6	364.5	365.6	365.6	362.6	352.9	339.2	315.9
62.5°	284.6	287.5	285.6	287.5	291.5	287.5	285.6	283.7	276.9	268.0	248.5
65°	215.5	217.4	217.4	218.4	216.4	217.4	213.6	210.6	206.7	197.0	184.3
67.5°	163.8	163.8	163.8	163.8	162.8	161.9	160.9	157.9	151.1	147.2	133.5
70°	125.8	119.9	119.9	119.9	119.9	120.8	117.9	114.1	112.1	105.3	95.5
72.5°	83.9	85.8	83.9	83.9	81.9	82.8	78.9	77.0	75.1	71.2	65.4
75°	60.4	55.6	57.5	58.5	55.6	57.5	53.6	49.7	49.7	46.7	43.8
77.5°	39.0	38.0	39.0	40.0	39.0	38.0	36.1	34.1	34.1	33.2	30.3
80°	28.2	27.2	27.2	27.2	26.3	27.2	25.3	25.3	23.4	22.4	20.5
82.5°	18.5	18.5	17.5	18.5	17.5	18.5	15.6	15.6	15.6	14.6	12.7
85°	12.7	10.8	10.8	11.8	9.8	11.8	10.8	9.8	8.7	8.7	7.7
87.5°	5.8	6.8	5.8	6.8	5.8	5.8	6.8	5.8	5.8	3.9	3.9
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°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	1986.7	1987.8	1987.8	1991.7	1993.6	1994.6	1994.6	2002.3	1999.4	2001.4	2003.3
5°	1958.5	1964.3	1966.3	1966.3	1977.0	1980.9	1984.8	1993.6	1994.6	2000.4	2007.3
7.5°	1931.1	1938.0	1941.9	1950.7	1957.5	1964.3	1976.0	1981.9	1987.8	1995.5	2004.2
10°	1904.8	1912.7	1920.5	1927.3	1938.0	1946.8	1954.6	1968.3	1975.1	1985.7	1997.5
12.5°	1879.6	1890.2	1897.1	1908.7	1920.5	1928.2	1940.0	1952.7	1963.3	1974.1	1987.8
15°	1857.2	1869.8	1877.6	1890.2	1902.9	1913.7	1926.3	1941.9	1949.8	1962.4	1975.1
17.5°	1832.7	1846.4	1856.2	1867.8	1883.4	1895.2	1905.8	1921.4	1931.1	1944.8	1959.5
20°	1807.4	1821.1	1832.7	1844.4	1860.1	1871.7	1884.4	1900.0	1910.7	1924.3	1936.1
22.5°	1777.2	1789.9	1802.5	1816.1	1831.7	1841.5	1856.2	1869.8	1881.5	1894.2	1905.8
25°	1738.2	1753.8	1763.6	1776.2	1788.9	1799.5	1815.1	1828.8	1838.6	1850.3	1861.0
27.5°	1692.4	1704.0	1711.9	1722.5	1735.2	1744.9	1756.7	1770.4	1780.1	1790.8	1798.6
30°	1614.4	1625.1	1632.0	1639.7	1652.4	1661.2	1671.0	1683.5	1690.4	1698.2	1705.0
32.5°	1512.0	1520.7	1524.7	1530.5	1539.4	1548.1	1555.8	1566.6	1569.5	1574.3	1574.3
35°	1363.8	1365.7	1364.8	1366.7	1370.6	1375.5	1382.3	1389.1	1393.1	1393.1	1390.2
37.5°	1190.3	1178.6	1166.0	1156.2	1153.3	1151.3	1155.2	1158.1	1162.0	1163.9	1159.1
40°	1010.0	983.7	955.3	930.0	912.5	904.6	901.7	903.6	903.6	910.5	910.5
42.5°	855.0	814.0	772.1	734.0	708.7	689.2	680.4	680.4	681.5	686.3	689.2
45°	726.3	674.6	625.9	583.9	548.8	523.5	511.8	508.8	507.9	509.8	516.7
47.5°	627.8	574.2	523.5	471.8	434.8	409.4	398.7	394.8	390.9	394.8	395.8
50°	550.9	495.3	441.7	390.0	351.0	328.6	314.9	309.1	308.1	308.1	310.1
52.5°	480.6	428.9	375.3	322.7	281.7	260.3	247.6	244.7	240.8	244.7	244.7
55°	414.3	362.6	310.1	260.3	226.1	203.8	192.0	188.1	186.2	189.1	189.1
57.5°	342.2	298.3	249.5	204.7	170.6	155.0	146.2	141.4	140.3	142.4	140.3
60°	280.8	243.7	201.8	160.9	134.5	117.9	111.2	109.2	107.2	109.2	109.2
62.5°	222.3	191.1	156.9	125.8	103.4	91.7	83.9	83.9	82.8	82.8	83.9
65°	164.8	140.3	116.0	89.7	72.2	63.3	57.5	57.5	56.5	57.5	56.5
67.5°	119.9	103.4	83.9	65.4	51.7	46.7	42.9	40.0	41.9	40.0	39.0
70°	87.8	74.1	60.4	49.7	40.0	35.1	32.2	31.2	29.3	29.3	29.3
72.5°	58.5	49.7	40.9	32.2	26.3	21.4	20.5	18.5	16.6	17.5	19.5
75°	39.0	33.2	29.3	23.4	17.5	17.5	11.8	11.8	9.8	11.8	8.7
77.5°	27.2	22.4	17.5	14.6	11.8	10.8	7.7	7.7	6.8	6.8	6.8
80°	19.5	16.6	12.7	10.8	7.7	7.7	6.8	5.8	4.8	4.8	5.8
82.5°	11.8	8.7	8.7	7.7	4.8	3.9	2.9	3.9	2.0	2.0	2.0
85°	6.8	5.8	4.8	2.9	2.0	2.0	1.0	0.0	1.0	1.0	0.0
87.5°	3.9	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°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2008.3	2007.3	2009.2	2009.2	2015.0	2014.0	2017.0	2017.0	2015.0	2016.0	2019.9
5°	2015.0	2018.0	2023.7	2028.7	2037.4	2041.3	2046.3	2051.1	2052.1	2055.0	2057.9
7.5°	2015.0	2024.8	2031.6	2040.3	2052.1	2058.9	2069.6	2078.4	2082.3	2087.2	2093.0
10°	2011.1	2020.8	2033.5	2043.2	2057.9	2068.7	2079.3	2093.0	2098.8	2106.7	2114.4
12.5°	2003.3	2014.0	2027.7	2040.3	2056.9	2066.7	2080.4	2093.0	2101.8	2112.5	2121.3
15°	1991.7	2004.2	2017.0	2029.7	2047.2	2058.9	2071.6	2086.2	2094.9	2106.7	2114.4
17.5°	1973.1	1986.7	1998.5	2010.2	2026.8	2040.3	2052.1	2065.8	2074.5	2084.3	2094.9
20°	1950.7	1963.3	1976.0	1985.7	2002.3	2014.0	2026.8	2039.4	2046.3	2048.2	2064.8
22.5°	1922.4	1931.1	1940.9	1956.6	1966.3	1977.0	1988.8	2000.4	2007.3	2018.0	2023.7
25°	1875.7	1884.4	1895.2	1901.9	1913.7	1922.4	1934.1	1946.8	1950.7	1958.5	1964.3
27.5°	1810.3	1815.1	1820.1	1825.9	1832.7	1837.7	1844.4	1850.3	1854.1	1858.1	1862.0
30°	1706.9	1706.9	1706.9	1703.0	1706.0	1709.0	1709.9	1709.0	1709.0	1708.0	1708.0
32.5°	1570.5	1562.7	1553.9	1546.1	1543.2	1539.4	1537.3	1534.4	1529.6	1526.6	1527.6
35°	1386.2	1368.7	1358.0	1348.2	1340.5	1334.6	1331.6	1328.7	1327.7	1323.9	1320.0
37.5°	1156.2	1143.5	1135.7	1129.9	1123.0	1117.2	1118.2	1119.2	1122.0	1120.1	1121.1
40°	912.5	909.6	912.5	905.7	903.6	905.7	910.5	917.3	921.2	925.2	932.0
42.5°	694.1	698.9	705.8	705.8	708.7	712.6	718.4	729.2	735.0	741.9	749.7
45°	522.5	528.3	537.2	540.1	542.0	546.8	553.8	562.5	566.3	572.3	579.1
47.5°	402.7	406.5	411.4	416.2	421.2	423.1	429.9	429.9	434.8	438.6	440.7
50°	313.9	317.8	321.7	324.6	326.5	329.5	331.5	334.4	335.3	337.3	338.2
52.5°	245.6	250.5	250.5	252.4	255.4	258.3	257.4	258.3	259.3	259.3	262.2
55°	192.0	192.0	194.9	194.9	197.0	196.0	197.0	197.0	197.0	197.0	197.9
57.5°	143.3	144.3	147.2	145.3	144.3	146.2	144.3	146.2	145.3	147.2	144.3
60°	110.2	110.2	111.2	111.2	112.1	112.1	112.1	111.2	111.2	110.2	110.2
62.5°	82.8	83.9	84.9	83.9	83.9	83.9	82.8	82.8	81.9	80.9	80.9
65°	55.6	54.6	56.5	54.6	55.6	55.6	54.6	55.6	52.7	53.6	52.7
67.5°	40.0	39.0	38.0	39.0	38.0	37.0	37.0	38.0	39.0	36.1	36.1
70°	26.3	27.2	26.3	27.2	28.2	28.2	27.2	26.3	27.2	25.3	26.3
72.5°	16.6	16.6	16.6	16.6	16.6	17.5	17.5	17.5	15.6	15.6	14.6
75°	7.7	10.8	8.7	7.7	10.8	10.8	9.8	9.8	8.7	8.7	8.7
77.5°	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.8	5.8	4.8
80°	3.9	3.9	3.9	2.9	3.9	3.9	4.8	3.9	3.9	2.9	4.8
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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2018.9	2018.0	2018.9	2019.9	2018.9	2018.0	2018.9	2019.9	2016.0	2015.0	2017.0
5°	2061.9	2061.9	2063.8	2064.8	2063.8	2061.9	2061.9	2057.9	2055.0	2052.1	2051.1
7.5°	2098.8	2100.9	2102.8	2103.7	2102.8	2100.9	2098.8	2093.0	2087.2	2082.3	2078.4
10°	2121.3	2124.2	2128.1	2130.0	2128.1	2124.2	2121.3	2114.4	2106.7	2098.8	2093.0
12.5°	2131.0	2133.9	2138.9	2137.9	2138.9	2133.9	2131.0	2121.3	2112.5	2101.8	2093.0
15°	2124.2	2128.1	2132.9	2134.9	2132.9	2128.1	2124.2	2114.4	2106.7	2094.9	2086.2
17.5°	2102.8	2108.6	2111.5	2114.4	2111.5	2108.6	2102.8	2094.9	2084.3	2074.5	2065.8
20°	2073.5	2077.4	2081.4	2082.3	2081.4	2077.4	2073.5	2064.8	2048.2	2046.3	2039.4
22.5°	2031.6	2034.5	2043.2	2040.3	2043.2	2034.5	2031.6	2023.7	2018.0	2007.3	2000.4
25°	1971.2	1974.1	1975.1	1976.0	1975.1	1974.1	1971.2	1964.3	1958.5	1950.7	1946.8
27.5°	1866.9	1866.9	1868.8	1869.8	1868.8	1866.9	1866.9	1862.0	1858.1	1854.1	1850.3
30°	1709.0	1709.0	1709.0	1713.8	1709.0	1709.0	1709.0	1708.0	1708.0	1709.0	1709.0
32.5°	1526.6	1524.7	1522.8	1524.7	1522.8	1524.7	1526.6	1527.6	1526.6	1529.6	1534.4
35°	1320.0	1319.0	1321.9	1318.1	1321.9	1319.0	1320.0	1320.0	1323.9	1327.7	1328.7
37.5°	1122.0	1120.1	1124.0	1120.1	1124.0	1120.1	1122.0	1121.1	1120.1	1122.0	1119.2
40°	933.9	935.8	935.8	943.7	935.8	935.8	933.9	932.0	925.2	921.2	917.3
42.5°	753.5	759.5	757.5	763.3	757.5	759.5	753.5	749.7	741.9	735.0	729.2
45°	582.9	586.8	586.8	588.9	586.8	586.8	582.9	579.1	572.3	566.3	562.5
47.5°	447.4	447.4	447.4	448.4	447.4	447.4	447.4	440.7	438.6	434.8	429.9
50°	340.2	341.2	342.2	343.1	342.2	341.2	340.2	338.2	337.3	335.3	334.4
52.5°	261.3	262.2	260.3	262.2	260.3	262.2	261.3	262.2	259.3	259.3	258.3
55°	197.9	197.0	197.9	198.9	197.9	197.0	197.9	197.9	197.0	197.0	197.0
57.5°	145.3	143.3	143.3	143.3	143.3	143.3	145.3	144.3	147.2	145.3	146.2
60°	108.2	109.2	109.2	110.2	109.2	109.2	108.2	110.2	110.2	111.2	111.2
62.5°	79.9	82.8	80.9	82.8	80.9	82.8	79.9	80.9	80.9	81.9	82.8
65°	51.7	51.7	51.7	52.7	51.7	51.7	51.7	52.7	53.6	52.7	55.6
67.5°	35.1	36.1	38.0	37.0	38.0	36.1	35.1	36.1	36.1	39.0	38.0
70°	28.2	25.3	25.3	28.2	25.3	25.3	28.2	26.3	25.3	27.2	26.3
72.5°	16.6	14.6	16.6	16.6	16.6	14.6	16.6	14.6	15.6	15.6	17.5
75°	8.7	7.7	6.8	9.8	6.8	7.7	8.7	8.7	8.7	8.7	9.8
77.5°	5.8	4.8	6.8	6.8	6.8	4.8	5.8	4.8	5.8	4.8	5.8
80°	2.9	3.9	2.9	4.8	2.9	3.9	2.9	4.8	2.9	3.9	3.9
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: P245884

CATALOG NUMBER: LSR8B40D010 EC8B40930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	2017.0	2014.0	2015.0	2009.2	2009.2	2007.3	2008.3	2003.3	2001.4	1999.4	2002.3
5°	2046.3	2041.3	2037.4	2028.7	2023.7	2018.0	2015.0	2007.3	2000.4	1994.6	1993.6
7.5°	2069.6	2058.9	2052.1	2040.3	2031.6	2024.8	2015.0	2004.2	1995.5	1987.8	1981.9
10°	2079.3	2068.7	2057.9	2043.2	2033.5	2020.8	2011.1	1997.5	1985.7	1975.1	1968.3
12.5°	2080.4	2066.7	2056.9	2040.3	2027.7	2014.0	2003.3	1987.8	1974.1	1963.3	1952.7
15°	2071.6	2058.9	2047.2	2029.7	2017.0	2004.2	1991.7	1975.1	1962.4	1949.8	1941.9
17.5°	2052.1	2040.3	2026.8	2010.2	1998.5	1986.7	1973.1	1959.5	1944.8	1931.1	1921.4
20°	2026.8	2014.0	2002.3	1985.7	1976.0	1963.3	1950.7	1936.1	1924.3	1910.7	1900.0
22.5°	1988.8	1977.0	1966.3	1956.6	1940.9	1931.1	1922.4	1905.8	1894.2	1881.5	1869.8
25°	1934.1	1922.4	1913.7	1901.9	1895.2	1884.4	1875.7	1861.0	1850.3	1838.6	1828.8
27.5°	1844.4	1837.7	1832.7	1825.9	1820.1	1815.1	1810.3	1798.6	1790.8	1780.1	1770.4
30°	1709.9	1709.0	1706.0	1703.0	1706.9	1706.9	1706.9	1705.0	1698.2	1690.4	1683.5
32.5°	1537.3	1539.4	1543.2	1546.1	1553.9	1562.7	1570.5	1574.3	1574.3	1569.5	1566.6
35°	1331.6	1334.6	1340.5	1348.2	1358.0	1368.7	1386.2	1390.2	1393.1	1393.1	1389.1
37.5°	1118.2	1117.2	1123.0	1129.9	1135.7	1143.5	1156.2	1159.1	1163.9	1162.0	1158.1
40°	910.5	905.7	903.6	905.7	912.5	909.6	912.5	910.5	910.5	903.6	903.6
42.5°	718.4	712.6	708.7	705.8	705.8	698.9	694.1	689.2	686.3	681.5	680.4
45°	553.8	546.8	542.0	540.1	537.2	528.3	522.5	516.7	509.8	507.9	508.8
47.5°	429.9	423.1	421.2	416.2	411.4	406.5	402.7	395.8	394.8	390.9	394.8
50°	331.5	329.5	326.5	324.6	321.7	317.8	313.9	310.1	308.1	308.1	309.1
52.5°	257.4	258.3	255.4	252.4	250.5	250.5	245.6	244.7	244.7	240.8	244.7
55°	197.0	196.0	197.0	194.9	194.9	192.0	192.0	189.1	189.1	186.2	188.1
57.5°	144.3	146.2	144.3	145.3	147.2	144.3	143.3	140.3	142.4	140.3	141.4
60°	112.1	112.1	112.1	111.2	111.2	110.2	110.2	109.2	109.2	107.2	109.2
62.5°	82.8	83.9	83.9	83.9	84.9	83.9	82.8	83.9	82.8	82.8	83.9
65°	54.6	55.6	55.6	54.6	56.5	54.6	55.6	56.5	57.5	56.5	57.5
67.5°	37.0	37.0	38.0	39.0	38.0	39.0	40.0	39.0	40.0	41.9	40.0
70°	27.2	28.2	28.2	27.2	26.3	27.2	26.3	29.3	29.3	29.3	31.2
72.5°	17.5	17.5	16.6	16.6	16.6	16.6	16.6	19.5	17.5	16.6	18.5
75°	9.8	10.8	10.8	7.7	8.7	10.8	7.7	8.7	11.8	9.8	11.8
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	7.7	6.8	6.8	6.8	7.7
80°	4.8	3.9	3.9	2.9	3.9	3.9	3.9	5.8	4.8	4.8	5.8
82.5°	2.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
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



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	1994.6	1994.6	1993.6	1991.7	1987.8	1987.8	1986.7	1983.8	1981.9	1980.9	1980.9
5°	1984.8	1980.9	1977.0	1966.3	1966.3	1964.3	1958.5	1954.6	1952.7	1947.7	1945.8
7.5°	1976.0	1964.3	1957.5	1950.7	1941.9	1938.0	1931.1	1928.2	1921.4	1916.6	1913.7
10°	1954.6	1946.8	1938.0	1927.3	1920.5	1912.7	1904.8	1899.1	1890.2	1885.4	1881.5
12.5°	1940.0	1928.2	1920.5	1908.7	1897.1	1890.2	1879.6	1872.7	1863.9	1854.1	1848.3
15°	1926.3	1913.7	1902.9	1890.2	1877.6	1869.8	1857.2	1849.3	1836.6	1826.9	1820.1
17.5°	1905.8	1895.2	1883.4	1867.8	1856.2	1846.4	1832.7	1823.0	1811.3	1798.6	1791.8
20°	1884.4	1871.7	1860.1	1844.4	1832.7	1821.1	1807.4	1796.6	1783.0	1771.3	1763.6
22.5°	1856.2	1841.5	1831.7	1816.1	1802.5	1789.9	1777.2	1764.5	1751.8	1742.0	1733.3
25°	1815.1	1799.5	1788.9	1776.2	1763.6	1753.8	1738.2	1730.4	1717.7	1709.0	1700.1
27.5°	1756.7	1744.9	1735.2	1722.5	1711.9	1704.0	1692.4	1684.5	1673.8	1666.0	1659.2
30°	1671.0	1661.2	1652.4	1639.7	1632.0	1625.1	1614.4	1607.5	1599.8	1590.9	1589.0
32.5°	1555.8	1548.1	1539.4	1530.5	1524.7	1520.7	1512.0	1508.1	1500.3	1495.4	1490.6
35°	1382.3	1375.5	1370.6	1366.7	1364.8	1365.7	1363.8	1367.7	1369.6	1368.7	1369.6
37.5°	1155.2	1151.3	1153.3	1156.2	1166.0	1178.6	1190.3	1207.9	1219.5	1231.3	1242.0
40°	901.7	904.6	912.5	930.0	955.3	983.7	1010.0	1043.1	1076.3	1099.7	1121.1
42.5°	680.4	689.2	708.7	734.0	772.1	814.0	855.0	903.6	943.7	982.7	1010.0
45°	511.8	523.5	548.8	583.9	625.9	674.6	726.3	780.9	828.6	868.6	898.8
47.5°	398.7	409.4	434.8	471.8	523.5	574.2	627.8	684.4	734.0	773.0	799.4
50°	314.9	328.6	351.0	390.0	441.7	495.3	550.9	606.3	653.2	686.3	709.7
52.5°	247.6	260.3	281.7	322.7	375.3	428.9	480.6	535.2	576.1	608.3	623.9
55°	192.0	203.8	226.1	260.3	310.1	362.6	414.3	461.2	499.2	522.5	537.2
57.5°	146.2	155.0	170.6	204.7	249.5	298.3	342.2	389.0	418.2	434.8	444.5
60°	111.2	117.9	134.5	160.9	201.8	243.7	280.8	315.9	339.2	352.9	362.6
62.5°	83.9	91.7	103.4	125.8	156.9	191.1	222.3	248.5	268.0	276.9	283.7
65°	57.5	63.3	72.2	89.7	116.0	140.3	164.8	184.3	197.0	206.7	210.6
67.5°	42.9	46.7	51.7	65.4	83.9	103.4	119.9	133.5	147.2	151.1	157.9
70°	32.2	35.1	40.0	49.7	60.4	74.1	87.8	95.5	105.3	112.1	114.1
72.5°	20.5	21.4	26.3	32.2	40.9	49.7	58.5	65.4	71.2	75.1	77.0
75°	11.8	17.5	17.5	23.4	29.3	33.2	39.0	43.8	46.7	49.7	49.7
77.5°	7.7	10.8	11.8	14.6	17.5	22.4	27.2	30.3	33.2	34.1	34.1
80°	6.8	7.7	7.7	10.8	12.7	16.6	19.5	20.5	22.4	23.4	25.3
82.5°	2.9	3.9	4.8	7.7	8.7	8.7	11.8	12.7	14.6	15.6	15.6
85°	1.0	2.0	2.0	2.9	4.8	5.8	6.8	7.7	8.7	8.7	9.8
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	3.9	3.9	3.9	5.8	5.8
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: P245884

CATALOG NUMBER: LSR8B40D010 EC8B40930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5	1996.5
2.5°	1979.0	1979.9	1976.0	1975.1	1973.1	1974.1	1976.0
5°	1942.9	1943.8	1940.0	1936.1	1936.1	1935.1	1936.1
7.5°	1908.7	1909.7	1903.9	1901.9	1898.1	1899.1	1899.1
10°	1874.6	1874.6	1865.9	1864.9	1862.0	1861.0	1861.0
12.5°	1841.5	1838.6	1831.7	1827.9	1829.8	1824.0	1824.0
15°	1812.2	1807.4	1798.6	1795.7	1790.8	1788.9	1788.9
17.5°	1782.1	1778.1	1770.4	1764.5	1758.6	1757.7	1758.6
20°	1752.8	1748.9	1739.1	1735.2	1730.4	1730.4	1728.5
22.5°	1723.5	1719.6	1710.9	1708.0	1701.1	1701.1	1702.1
25°	1693.3	1690.4	1680.6	1678.7	1677.8	1673.8	1675.8
27.5°	1652.4	1650.4	1642.6	1639.7	1635.8	1634.9	1636.8
30°	1577.4	1574.3	1568.6	1565.6	1558.9	1559.8	1561.7
32.5°	1483.8	1479.8	1472.0	1469.1	1463.2	1461.3	1462.2
35°	1366.7	1363.8	1357.0	1357.0	1351.1	1349.2	1351.1
37.5°	1247.8	1250.7	1247.8	1250.7	1247.8	1246.9	1247.8
40°	1135.7	1146.4	1148.4	1159.1	1155.2	1161.0	1160.1
42.5°	1028.5	1046.0	1052.8	1061.6	1059.7	1063.6	1066.5
45°	920.2	934.9	941.8	947.6	948.6	950.5	951.5
47.5°	817.9	829.7	830.5	837.4	836.4	836.4	839.4
50°	722.4	730.2	732.1	736.9	733.1	731.1	732.1
52.5°	633.7	641.4	639.5	641.4	636.6	634.6	635.6
55°	543.0	546.8	546.8	546.8	541.1	541.1	541.1
57.5°	450.4	451.4	449.4	450.4	449.4	443.6	442.6
60°	365.6	365.6	364.5	365.6	362.6	359.7	359.7
62.5°	285.6	287.5	291.5	287.5	285.6	287.5	284.6
65°	213.6	217.4	216.4	218.4	217.4	217.4	215.5
67.5°	160.9	161.9	162.8	163.8	163.8	163.8	163.8
70°	117.9	120.8	119.9	119.9	119.9	119.9	125.8
72.5°	78.9	82.8	81.9	83.9	83.9	85.8	83.9
75°	53.6	57.5	55.6	58.5	57.5	55.6	60.4
77.5°	36.1	38.0	39.0	40.0	39.0	38.0	39.0
80°	25.3	27.2	26.3	27.2	27.2	27.2	28.2
82.5°	15.6	18.5	17.5	18.5	17.5	18.5	18.5
85°	10.8	11.8	9.8	11.8	10.8	10.8	12.7
87.5°	6.8	5.8	5.8	6.8	5.8	6.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)