

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: P246022

Luminaire Tested: **LD8B40D010 ER8B409727 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246022
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 ER8B409727 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

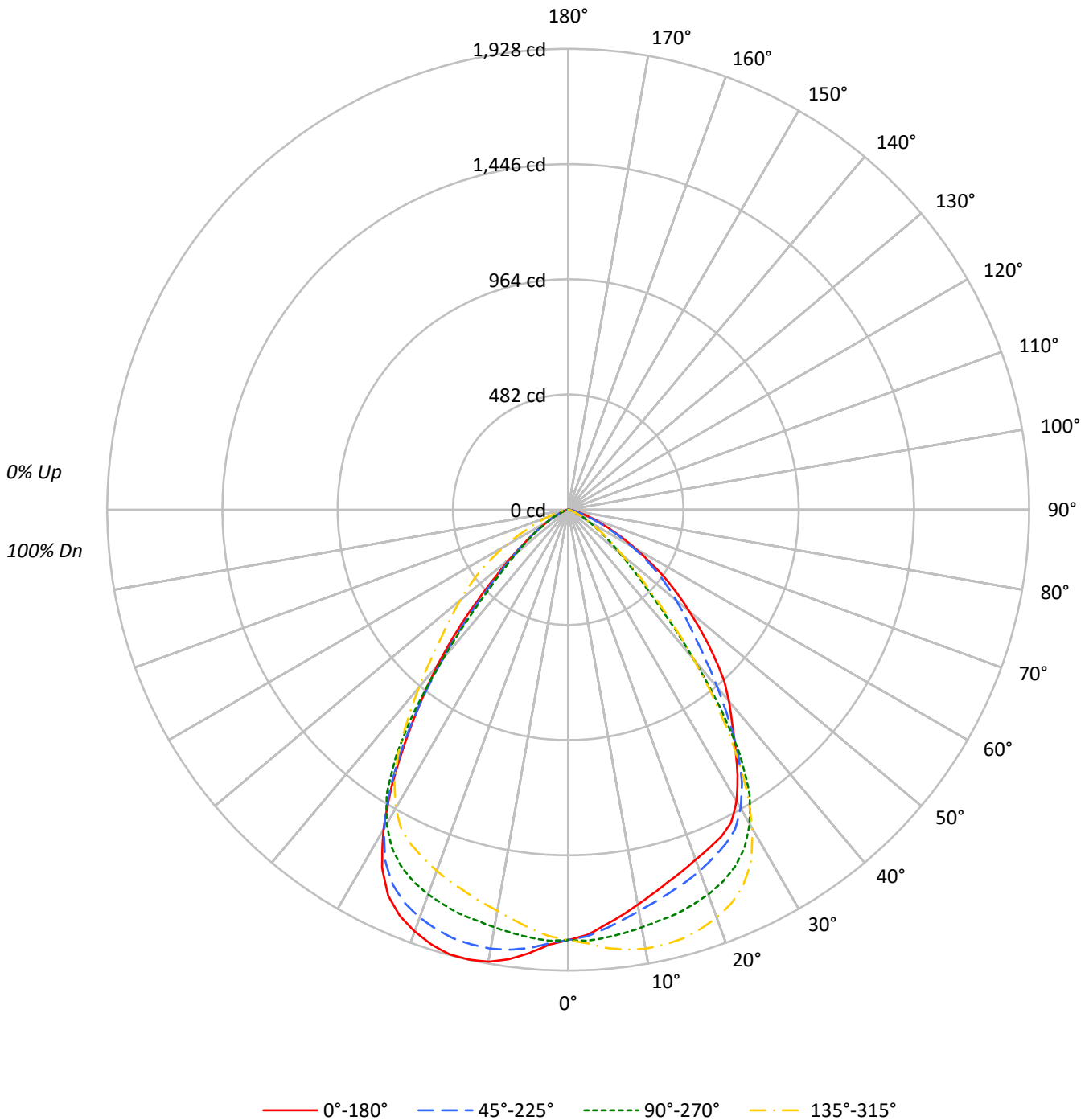
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	171.3	5.7
10°-20°	496.1	16.4
20°-30°	751.2	24.8
30°-40°	752.9	24.8
40°-50°	472.8	15.6
50°-60°	252.0	8.3
60°-70°	103.6	3.4
70°-80°	27.4	0.9
80°-90°	4.6	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°	1418.7	46.8
0°-40°	2171.6	71.6
0°-60°	2896.4	95.5
0°-90°	3032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	1746	1797	1862	1797	1746	165
15°	1613	1751	1925	1751	1613	456
25°	1511	1649	1782	1649	1511	693
35°	1218	1252	1188	1252	1218	763
45°	858	459	531	459	858	660
55°	488	170	179	170	488	435
65°	194	52	48	52	194	201
75°	54	11	9	11	54	62
85°	11	0	1	0	11	13
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°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1781.6	1779.8	1778.9	1780.7	1781.6	1785.1	1784.2	1785.9	1785.9	1786.8	1788.6
5°	1745.5	1744.6	1745.5	1745.5	1749.0	1752.5	1751.7	1754.3	1756.0	1760.5	1762.2
7.5°	1712.1	1712.1	1711.2	1714.7	1716.5	1721.8	1720.9	1725.3	1727.9	1732.3	1738.5
10°	1677.8	1677.8	1678.7	1681.3	1682.2	1690.1	1690.1	1696.3	1699.8	1704.2	1712.1
12.5°	1644.4	1644.4	1649.7	1648.0	1651.5	1657.6	1660.3	1666.4	1671.7	1680.5	1688.4
15°	1612.8	1612.8	1614.6	1618.9	1621.6	1629.5	1633.9	1640.9	1647.1	1655.9	1667.3
17.5°	1585.5	1584.7	1585.5	1590.8	1596.1	1603.1	1606.6	1615.4	1621.6	1633.0	1643.6
20°	1558.3	1560.1	1560.1	1564.5	1568.0	1576.8	1580.3	1590.0	1597.0	1607.5	1619.8
22.5°	1534.6	1533.7	1533.7	1539.9	1542.5	1550.4	1553.9	1562.7	1570.6	1579.4	1590.8
25°	1510.8	1509.1	1512.6	1513.5	1515.2	1524.0	1526.7	1532.8	1540.7	1548.6	1560.1
27.5°	1475.7	1473.9	1474.8	1478.3	1481.0	1488.0	1489.8	1495.9	1502.1	1509.1	1518.8
30°	1408.0	1406.3	1405.4	1411.5	1414.2	1419.4	1422.1	1432.6	1434.4	1442.3	1449.3
32.5°	1318.3	1317.5	1319.3	1324.5	1327.1	1334.2	1337.7	1343.9	1348.2	1352.6	1359.7
35°	1218.2	1216.4	1218.2	1223.5	1223.5	1229.6	1232.2	1234.9	1234.0	1234.9	1233.1
37.5°	1125.0	1124.1	1125.0	1127.6	1125.0	1127.6	1125.0	1119.7	1110.1	1099.5	1089.0
40°	1045.9	1046.8	1041.5	1045.0	1035.3	1033.6	1023.9	1010.7	991.4	970.3	940.4
42.5°	961.5	958.9	955.4	957.1	949.2	943.1	927.2	910.6	885.9	850.8	814.7
45°	857.8	857.0	855.2	854.3	849.0	842.9	829.7	810.4	783.1	747.1	704.0
47.5°	756.7	754.1	754.1	755.0	748.8	748.0	737.4	720.7	697.0	661.8	617.0
50°	660.0	659.2	660.9	664.5	660.0	658.3	651.3	639.9	618.8	588.9	546.7
52.5°	573.0	572.2	573.9	578.3	576.5	578.3	571.3	562.5	548.4	519.4	482.5
55°	487.8	487.8	487.8	493.1	493.1	493.1	489.5	484.3	471.1	450.0	415.7
57.5°	399.0	399.9	405.2	406.0	405.2	407.0	406.0	400.8	392.0	377.1	350.7
60°	324.3	324.3	327.0	329.6	328.7	329.6	329.6	327.0	318.2	305.9	284.8
62.5°	256.6	259.3	257.5	259.3	262.8	259.3	257.5	255.8	249.6	241.7	224.1
65°	194.2	196.0	196.0	196.9	195.1	196.0	192.5	189.9	186.3	177.6	166.1
67.5°	147.7	147.7	147.7	147.7	146.8	145.9	145.0	142.4	136.2	132.7	120.4
70°	113.4	108.1	108.1	108.1	108.1	109.0	106.4	102.9	101.1	94.9	86.1
72.5°	75.6	77.3	75.6	75.6	73.8	74.7	71.2	69.4	67.7	64.2	58.9
75°	54.5	50.1	51.8	52.7	50.1	51.8	48.3	44.8	44.8	42.2	39.5
77.5°	35.2	34.3	35.2	36.0	35.2	34.3	32.5	30.8	30.8	29.9	27.2
80°	25.5	24.6	24.6	24.6	23.7	24.6	22.9	22.9	21.1	20.2	18.5
82.5°	16.7	16.7	15.8	16.7	15.8	16.7	14.1	14.1	14.1	13.2	11.4
85°	11.4	9.7	9.7	10.6	8.8	10.6	9.7	8.8	7.9	7.9	7.0
87.5°	5.3	6.2	5.3	6.2	5.3	5.3	6.2	5.3	5.3	3.5	3.5
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°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1791.2	1792.1	1792.1	1795.6	1797.4	1798.2	1798.2	1805.3	1802.6	1804.4	1806.2
5°	1765.7	1771.0	1772.8	1772.8	1782.4	1785.9	1789.4	1797.4	1798.2	1803.5	1809.7
7.5°	1741.1	1747.3	1750.8	1758.7	1764.8	1771.0	1781.6	1786.8	1792.1	1799.1	1807.0
10°	1717.4	1724.4	1731.4	1737.6	1747.3	1755.2	1762.2	1774.5	1780.7	1790.3	1800.9
12.5°	1694.5	1704.2	1710.4	1720.9	1731.4	1738.5	1749.0	1760.5	1770.1	1779.8	1792.1
15°	1674.3	1685.8	1692.8	1704.2	1715.6	1725.3	1736.7	1750.8	1757.8	1769.3	1780.7
17.5°	1652.3	1664.7	1673.5	1684.0	1698.1	1708.6	1718.3	1732.3	1741.1	1753.4	1766.6
20°	1629.5	1641.8	1652.3	1662.9	1677.0	1687.5	1698.9	1713.0	1722.7	1735.0	1745.5
22.5°	1602.3	1613.7	1625.1	1637.4	1651.5	1660.3	1673.5	1685.8	1696.3	1707.7	1718.3
25°	1567.1	1581.2	1590.0	1601.4	1612.8	1622.4	1636.5	1648.8	1657.6	1668.2	1677.8
27.5°	1525.8	1536.3	1543.4	1553.0	1564.5	1573.2	1583.8	1596.1	1604.9	1614.6	1621.6
30°	1455.5	1465.2	1471.3	1478.3	1489.8	1497.7	1506.5	1517.9	1524.0	1531.1	1537.2
32.5°	1363.2	1371.1	1374.6	1379.9	1387.8	1395.7	1402.7	1412.4	1415.0	1419.4	1419.4
35°	1229.6	1231.3	1230.5	1232.2	1235.8	1240.1	1246.3	1252.4	1255.9	1255.9	1253.3
37.5°	1073.1	1062.6	1051.2	1042.4	1039.8	1038.0	1041.5	1044.1	1047.7	1049.4	1045.0
40°	910.6	886.8	861.3	838.5	822.7	815.6	813.0	814.7	814.7	820.9	820.9
42.5°	770.8	733.9	696.1	661.8	639.0	621.4	613.5	613.5	614.4	618.8	621.4
45°	654.8	608.2	564.2	526.5	494.8	472.0	461.4	458.8	457.9	459.7	465.8
47.5°	566.0	517.7	472.0	425.4	392.0	369.1	359.5	355.9	352.4	355.9	356.8
50°	496.6	446.5	398.2	351.6	316.4	296.2	283.9	278.6	277.7	277.7	279.5
52.5°	433.3	386.7	338.4	290.9	254.0	234.7	223.2	220.6	217.1	220.6	220.6
55°	373.5	327.0	279.5	234.7	203.9	183.7	173.1	169.6	167.9	170.5	170.5
57.5°	308.5	268.9	225.0	184.6	153.8	139.8	131.8	127.5	126.5	128.3	126.5
60°	253.1	219.7	181.9	145.0	121.3	106.4	100.2	98.4	96.7	98.4	98.4
62.5°	200.4	172.3	141.5	113.4	93.2	82.6	75.6	75.6	74.7	74.7	75.6
65°	148.5	126.5	104.6	80.9	65.0	57.1	51.8	51.8	51.0	51.8	51.0
67.5°	108.1	93.2	75.6	58.9	46.6	42.2	38.7	36.0	37.8	36.0	35.2
70°	79.1	66.8	54.5	44.8	36.0	31.7	29.0	28.1	26.4	26.4	26.4
72.5°	52.7	44.8	36.9	29.0	23.7	19.3	18.5	16.7	14.9	15.8	17.6
75°	35.2	29.9	26.4	21.1	15.8	15.8	10.6	10.6	8.8	10.6	7.9
77.5°	24.6	20.2	15.8	13.2	10.6	9.7	7.0	7.0	6.2	6.2	6.2
80°	17.6	14.9	11.4	9.7	7.0	7.0	6.2	5.3	4.4	4.4	5.3
82.5°	10.6	7.9	7.9	7.0	4.4	3.5	2.6	3.5	1.8	1.8	1.8
85°	6.2	5.3	4.4	2.6	1.8	1.8	0.9	0.0	0.9	0.9	0.0
87.5°	3.5	1.8	1.8	0.9	0.0	0.9	0.9	0.0	0.0	0.0	1.8
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°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1810.6	1809.7	1811.4	1811.4	1816.7	1815.8	1818.5	1818.5	1816.7	1817.6	1821.1
5°	1816.7	1819.4	1824.6	1829.0	1836.9	1840.4	1844.8	1849.2	1850.1	1852.7	1855.4
7.5°	1816.7	1825.5	1831.7	1839.5	1850.1	1856.3	1865.9	1873.8	1877.3	1881.7	1887.0
10°	1813.2	1822.0	1833.4	1842.2	1855.4	1865.0	1874.7	1887.0	1892.3	1899.3	1906.4
12.5°	1806.2	1815.8	1828.1	1839.5	1854.5	1863.3	1875.6	1887.0	1894.9	1904.6	1912.5
15°	1795.6	1807.0	1818.5	1829.9	1845.7	1856.3	1867.7	1880.9	1888.8	1899.3	1906.4
17.5°	1778.9	1791.2	1801.8	1812.3	1827.2	1839.5	1850.1	1862.4	1870.3	1879.1	1888.8
20°	1758.7	1770.1	1781.6	1790.3	1805.3	1815.8	1827.2	1838.7	1844.8	1846.6	1861.5
22.5°	1733.2	1741.1	1749.9	1764.0	1772.8	1782.4	1793.0	1803.5	1809.7	1819.4	1824.6
25°	1691.0	1698.9	1708.6	1714.7	1725.3	1733.2	1743.7	1755.2	1758.7	1765.7	1771.0
27.5°	1632.1	1636.5	1640.9	1646.2	1652.3	1656.7	1662.9	1668.2	1671.7	1675.2	1678.7
30°	1539.0	1539.0	1539.0	1535.4	1538.1	1540.7	1541.6	1540.7	1540.7	1539.9	1539.9
32.5°	1415.9	1408.9	1401.0	1394.0	1391.3	1387.8	1386.0	1383.4	1379.0	1376.4	1377.2
35°	1249.8	1234.0	1224.3	1215.5	1208.5	1203.2	1200.6	1198.0	1197.1	1193.6	1190.0
37.5°	1042.4	1031.0	1023.9	1018.7	1012.5	1007.2	1008.1	1009.0	1011.6	1009.9	1010.7
40°	822.7	820.0	822.7	816.5	814.7	816.5	820.9	827.1	830.6	834.1	840.2
42.5°	625.8	630.2	636.3	636.3	639.0	642.5	647.7	657.4	662.7	668.8	675.9
45°	471.1	476.4	484.3	486.9	488.7	493.1	499.2	507.1	510.6	515.9	522.1
47.5°	363.0	366.5	370.9	375.3	379.7	381.4	387.6	387.6	392.0	395.5	397.3
50°	283.0	286.5	290.0	292.7	294.4	297.1	298.8	301.5	302.3	304.1	305.0
52.5°	221.5	225.9	225.9	227.6	230.3	232.9	232.0	232.9	233.8	233.8	236.4
55°	173.1	173.1	175.8	175.8	177.6	176.7	177.6	177.6	177.6	177.6	178.4
57.5°	129.2	130.1	132.7	131.0	130.1	131.8	130.1	131.8	131.0	132.7	130.1
60°	99.3	99.3	100.2	100.2	101.1	101.1	101.1	100.2	100.2	99.3	99.3
62.5°	74.7	75.6	76.5	75.6	75.6	75.6	74.7	74.7	73.8	72.9	72.9
65°	50.1	49.2	51.0	49.2	50.1	50.1	49.2	50.1	47.5	48.3	47.5
67.5°	36.0	35.2	34.3	35.2	34.3	33.4	33.4	34.3	35.2	32.5	32.5
70°	23.7	24.6	23.7	24.6	25.5	25.5	24.6	23.7	24.6	22.9	23.7
72.5°	14.9	14.9	14.9	14.9	14.9	15.8	15.8	15.8	14.1	14.1	13.2
75°	7.0	9.7	7.9	7.0	9.7	9.7	8.8	8.8	7.9	7.9	7.9
77.5°	7.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.4	5.3	4.4
80°	3.5	3.5	3.5	2.6	3.5	3.5	4.4	3.5	3.5	2.6	4.4
82.5°	1.8	1.8	1.8	0.0	0.9	1.8	1.8	0.9	1.8	1.8	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: P246022

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1820.2	1819.4	1820.2	1821.1	1820.2	1819.4	1820.2	1821.1	1817.6	1816.7	1818.5
5°	1858.9	1858.9	1860.6	1861.5	1860.6	1858.9	1858.9	1855.4	1852.7	1850.1	1849.2
7.5°	1892.3	1894.1	1895.8	1896.7	1895.8	1894.1	1892.3	1887.0	1881.7	1877.3	1873.8
10°	1912.5	1915.2	1918.7	1920.4	1918.7	1915.2	1912.5	1906.4	1899.3	1892.3	1887.0
12.5°	1921.3	1923.9	1928.3	1927.5	1928.3	1923.9	1921.3	1912.5	1904.6	1894.9	1887.0
15°	1915.2	1918.7	1923.0	1924.8	1923.0	1918.7	1915.2	1906.4	1899.3	1888.8	1880.9
17.5°	1895.8	1901.1	1903.7	1906.4	1903.7	1901.1	1895.8	1888.8	1879.1	1870.3	1862.4
20°	1869.4	1873.0	1876.5	1877.3	1876.5	1873.0	1869.4	1861.5	1846.6	1844.8	1838.7
22.5°	1831.7	1834.3	1842.2	1839.5	1842.2	1834.3	1831.7	1824.6	1819.4	1809.7	1803.5
25°	1777.1	1779.8	1780.7	1781.6	1780.7	1779.8	1777.1	1771.0	1765.7	1758.7	1755.2
27.5°	1683.1	1683.1	1684.9	1685.8	1684.9	1683.1	1683.1	1678.7	1675.2	1671.7	1668.2
30°	1540.7	1540.7	1540.7	1545.1	1540.7	1540.7	1540.7	1539.9	1539.9	1540.7	1540.7
32.5°	1376.4	1374.6	1372.9	1374.6	1372.9	1374.6	1376.4	1377.2	1376.4	1379.0	1383.4
35°	1190.0	1189.2	1191.8	1188.3	1191.8	1189.2	1190.0	1190.0	1193.6	1197.1	1198.0
37.5°	1011.6	1009.9	1013.4	1009.9	1013.4	1009.9	1011.6	1010.7	1009.9	1011.6	1009.0
40°	842.0	843.7	843.7	850.8	843.7	843.7	842.0	840.2	834.1	830.6	827.1
42.5°	679.4	684.7	682.9	688.2	682.9	684.7	679.4	675.9	668.8	662.7	657.4
45°	525.6	529.1	529.1	530.9	529.1	529.1	525.6	522.1	515.9	510.6	507.1
47.5°	403.4	403.4	403.4	404.3	403.4	403.4	403.4	397.3	395.5	392.0	387.6
50°	306.7	307.6	308.5	309.4	308.5	307.6	306.7	305.0	304.1	302.3	301.5
52.5°	235.5	236.4	234.7	236.4	234.7	236.4	235.5	236.4	233.8	233.8	232.9
55°	178.4	177.6	178.4	179.3	178.4	177.6	178.4	178.4	177.6	177.6	177.6
57.5°	131.0	129.2	129.2	129.2	129.2	129.2	131.0	130.1	132.7	131.0	131.8
60°	97.6	98.4	98.4	99.3	98.4	98.4	97.6	99.3	99.3	100.2	100.2
62.5°	72.1	74.7	72.9	74.7	72.9	74.7	72.1	72.9	72.9	73.8	74.7
65°	46.6	46.6	46.6	47.5	46.6	46.6	46.6	47.5	48.3	47.5	50.1
67.5°	31.7	32.5	34.3	33.4	34.3	32.5	31.7	32.5	32.5	35.2	34.3
70°	25.5	22.9	22.9	25.5	22.9	22.9	25.5	23.7	22.9	24.6	23.7
72.5°	14.9	13.2	14.9	14.9	14.9	13.2	14.9	13.2	14.1	14.1	15.8
75°	7.9	7.0	6.2	8.8	6.2	7.0	7.9	7.9	7.9	7.9	8.8
77.5°	5.3	4.4	6.2	6.2	6.2	4.4	5.3	4.4	5.3	4.4	5.3
80°	2.6	3.5	2.6	4.4	2.6	3.5	2.6	4.4	2.6	3.5	3.5
82.5°	0.9	1.8	1.8	1.8	1.8	1.8	0.9	0.9	1.8	1.8	0.9
85°	0.0	1.8	0.9	0.9	0.9	1.8	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: P246022

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1818.5	1815.8	1816.7	1811.4	1811.4	1809.7	1810.6	1806.2	1804.4	1802.6	1805.3
5°	1844.8	1840.4	1836.9	1829.0	1824.6	1819.4	1816.7	1809.7	1803.5	1798.2	1797.4
7.5°	1865.9	1856.3	1850.1	1839.5	1831.7	1825.5	1816.7	1807.0	1799.1	1792.1	1786.8
10°	1874.7	1865.0	1855.4	1842.2	1833.4	1822.0	1813.2	1800.9	1790.3	1780.7	1774.5
12.5°	1875.6	1863.3	1854.5	1839.5	1828.1	1815.8	1806.2	1792.1	1779.8	1770.1	1760.5
15°	1867.7	1856.3	1845.7	1829.9	1818.5	1807.0	1795.6	1780.7	1769.3	1757.8	1750.8
17.5°	1850.1	1839.5	1827.2	1812.3	1801.8	1791.2	1778.9	1766.6	1753.4	1741.1	1732.3
20°	1827.2	1815.8	1805.3	1790.3	1781.6	1770.1	1758.7	1745.5	1735.0	1722.7	1713.0
22.5°	1793.0	1782.4	1772.8	1764.0	1749.9	1741.1	1733.2	1718.3	1707.7	1696.3	1685.8
25°	1743.7	1733.2	1725.3	1714.7	1708.6	1698.9	1691.0	1677.8	1668.2	1657.6	1648.8
27.5°	1662.9	1656.7	1652.3	1646.2	1640.9	1636.5	1632.1	1621.6	1614.6	1604.9	1596.1
30°	1541.6	1540.7	1538.1	1535.4	1539.0	1539.0	1539.0	1537.2	1531.1	1524.0	1517.9
32.5°	1386.0	1387.8	1391.3	1394.0	1401.0	1408.9	1415.9	1419.4	1419.4	1415.0	1412.4
35°	1200.6	1203.2	1208.5	1215.5	1224.3	1234.0	1249.8	1253.3	1255.9	1255.9	1252.4
37.5°	1008.1	1007.2	1012.5	1018.7	1023.9	1031.0	1042.4	1045.0	1049.4	1047.7	1044.1
40°	820.9	816.5	814.7	816.5	822.7	820.0	822.7	820.9	820.9	814.7	814.7
42.5°	647.7	642.5	639.0	636.3	636.3	630.2	625.8	621.4	618.8	614.4	613.5
45°	499.2	493.1	488.7	486.9	484.3	476.4	471.1	465.8	459.7	457.9	458.8
47.5°	387.6	381.4	379.7	375.3	370.9	366.5	363.0	356.8	355.9	352.4	355.9
50°	298.8	297.1	294.4	292.7	290.0	286.5	283.0	279.5	277.7	277.7	278.6
52.5°	232.0	232.9	230.3	227.6	225.9	225.9	221.5	220.6	220.6	217.1	220.6
55°	177.6	176.7	177.6	175.8	175.8	173.1	173.1	170.5	170.5	167.9	169.6
57.5°	130.1	131.8	130.1	131.0	132.7	130.1	129.2	126.5	128.3	126.5	127.5
60°	101.1	101.1	101.1	100.2	100.2	99.3	99.3	98.4	98.4	96.7	98.4
62.5°	74.7	75.6	75.6	75.6	76.5	75.6	74.7	75.6	74.7	74.7	75.6
65°	49.2	50.1	50.1	49.2	51.0	49.2	50.1	51.0	51.8	51.0	51.8
67.5°	33.4	33.4	34.3	35.2	34.3	35.2	36.0	35.2	36.0	37.8	36.0
70°	24.6	25.5	25.5	24.6	23.7	24.6	23.7	26.4	26.4	26.4	28.1
72.5°	15.8	15.8	14.9	14.9	14.9	14.9	14.9	17.6	15.8	14.9	16.7
75°	8.8	9.7	9.7	7.0	7.9	9.7	7.0	7.9	10.6	8.8	10.6
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	7.0	6.2	6.2	6.2	7.0
80°	4.4	3.5	3.5	2.6	3.5	3.5	3.5	5.3	4.4	4.4	5.3
82.5°	1.8	1.8	0.9	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.5
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	1.8	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: P246022

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1798.2	1798.2	1797.4	1795.6	1792.1	1792.1	1791.2	1788.6	1786.8	1785.9	1785.9
5°	1789.4	1785.9	1782.4	1772.8	1772.8	1771.0	1765.7	1762.2	1760.5	1756.0	1754.3
7.5°	1781.6	1771.0	1764.8	1758.7	1750.8	1747.3	1741.1	1738.5	1732.3	1727.9	1725.3
10°	1762.2	1755.2	1747.3	1737.6	1731.4	1724.4	1717.4	1712.1	1704.2	1699.8	1696.3
12.5°	1749.0	1738.5	1731.4	1720.9	1710.4	1704.2	1694.5	1688.4	1680.5	1671.7	1666.4
15°	1736.7	1725.3	1715.6	1704.2	1692.8	1685.8	1674.3	1667.3	1655.9	1647.1	1640.9
17.5°	1718.3	1708.6	1698.1	1684.0	1673.5	1664.7	1652.3	1643.6	1633.0	1621.6	1615.4
20°	1698.9	1687.5	1677.0	1662.9	1652.3	1641.8	1629.5	1619.8	1607.5	1597.0	1590.0
22.5°	1673.5	1660.3	1651.5	1637.4	1625.1	1613.7	1602.3	1590.8	1579.4	1570.6	1562.7
25°	1636.5	1622.4	1612.8	1601.4	1590.0	1581.2	1567.1	1560.1	1548.6	1540.7	1532.8
27.5°	1583.8	1573.2	1564.5	1553.0	1543.4	1536.3	1525.8	1518.8	1509.1	1502.1	1495.9
30°	1506.5	1497.7	1489.8	1478.3	1471.3	1465.2	1455.5	1449.3	1442.3	1434.4	1432.6
32.5°	1402.7	1395.7	1387.8	1379.9	1374.6	1371.1	1363.2	1359.7	1352.6	1348.2	1343.9
35°	1246.3	1240.1	1235.8	1232.2	1230.5	1231.3	1229.6	1233.1	1234.9	1234.0	1234.9
37.5°	1041.5	1038.0	1039.8	1042.4	1051.2	1062.6	1073.1	1089.0	1099.5	1110.1	1119.7
40°	813.0	815.6	822.7	838.5	861.3	886.8	910.6	940.4	970.3	991.4	1010.7
42.5°	613.5	621.4	639.0	661.8	696.1	733.9	770.8	814.7	850.8	885.9	910.6
45°	461.4	472.0	494.8	526.5	564.2	608.2	654.8	704.0	747.1	783.1	810.4
47.5°	359.5	369.1	392.0	425.4	472.0	517.7	566.0	617.0	661.8	697.0	720.7
50°	283.9	296.2	316.4	351.6	398.2	446.5	496.6	546.7	588.9	618.8	639.9
52.5°	223.2	234.7	254.0	290.9	338.4	386.7	433.3	482.5	519.4	548.4	562.5
55°	173.1	183.7	203.9	234.7	279.5	327.0	373.5	415.7	450.0	471.1	484.3
57.5°	131.8	139.8	153.8	184.6	225.0	268.9	308.5	350.7	377.1	392.0	400.8
60°	100.2	106.4	121.3	145.0	181.9	219.7	253.1	284.8	305.9	318.2	327.0
62.5°	75.6	82.6	93.2	113.4	141.5	172.3	200.4	224.1	241.7	249.6	255.8
65°	51.8	57.1	65.0	80.9	104.6	126.5	148.5	166.1	177.6	186.3	189.9
67.5°	38.7	42.2	46.6	58.9	75.6	93.2	108.1	120.4	132.7	136.2	142.4
70°	29.0	31.7	36.0	44.8	54.5	66.8	79.1	86.1	94.9	101.1	102.9
72.5°	18.5	19.3	23.7	29.0	36.9	44.8	52.7	58.9	64.2	67.7	69.4
75°	10.6	15.8	15.8	21.1	26.4	29.9	35.2	39.5	42.2	44.8	44.8
77.5°	7.0	9.7	10.6	13.2	15.8	20.2	24.6	27.2	29.9	30.8	30.8
80°	6.2	7.0	7.0	9.7	11.4	14.9	17.6	18.5	20.2	21.1	22.9
82.5°	2.6	3.5	4.4	7.0	7.9	7.9	10.6	11.4	13.2	14.1	14.1
85°	0.9	1.8	1.8	2.6	4.4	5.3	6.2	7.0	7.9	7.9	8.8
87.5°	0.9	0.9	0.0	0.9	1.8	1.8	3.5	3.5	3.5	5.3	5.3
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: P246022

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
2.5°	1784.2	1785.1	1781.6	1780.7	1778.9	1779.8	1781.6
5°	1751.7	1752.5	1749.0	1745.5	1745.5	1744.6	1745.5
7.5°	1720.9	1721.8	1716.5	1714.7	1711.2	1712.1	1712.1
10°	1690.1	1690.1	1682.2	1681.3	1678.7	1677.8	1677.8
12.5°	1660.3	1657.6	1651.5	1648.0	1649.7	1644.4	1644.4
15°	1633.9	1629.5	1621.6	1618.9	1614.6	1612.8	1612.8
17.5°	1606.6	1603.1	1596.1	1590.8	1585.5	1584.7	1585.5
20°	1580.3	1576.8	1568.0	1564.5	1560.1	1560.1	1558.3
22.5°	1553.9	1550.4	1542.5	1539.9	1533.7	1533.7	1534.6
25°	1526.7	1524.0	1515.2	1513.5	1512.6	1509.1	1510.8
27.5°	1489.8	1488.0	1481.0	1478.3	1474.8	1473.9	1475.7
30°	1422.1	1419.4	1414.2	1411.5	1405.4	1406.3	1408.0
32.5°	1337.7	1334.2	1327.1	1324.5	1319.3	1317.5	1318.3
35°	1232.2	1229.6	1223.5	1223.5	1218.2	1216.4	1218.2
37.5°	1125.0	1127.6	1125.0	1127.6	1125.0	1124.1	1125.0
40°	1023.9	1033.6	1035.3	1045.0	1041.5	1046.8	1045.9
42.5°	927.2	943.1	949.2	957.1	955.4	958.9	961.5
45°	829.7	842.9	849.0	854.3	855.2	857.0	857.8
47.5°	737.4	748.0	748.8	755.0	754.1	754.1	756.7
50°	651.3	658.3	660.0	664.5	660.9	659.2	660.0
52.5°	571.3	578.3	576.5	578.3	573.9	572.2	573.0
55°	489.5	493.1	493.1	493.1	487.8	487.8	487.8
57.5°	406.0	407.0	405.2	406.0	405.2	399.9	399.0
60°	329.6	329.6	328.7	329.6	327.0	324.3	324.3
62.5°	257.5	259.3	262.8	259.3	257.5	259.3	256.6
65°	192.5	196.0	195.1	196.9	196.0	196.0	194.2
67.5°	145.0	145.9	146.8	147.7	147.7	147.7	147.7
70°	106.4	109.0	108.1	108.1	108.1	108.1	113.4
72.5°	71.2	74.7	73.8	75.6	75.6	77.3	75.6
75°	48.3	51.8	50.1	52.7	51.8	50.1	54.5
77.5°	32.5	34.3	35.2	36.0	35.2	34.3	35.2
80°	22.9	24.6	23.7	24.6	24.6	24.6	25.5
82.5°	14.1	16.7	15.8	16.7	15.8	16.7	16.7
85°	9.7	10.6	8.8	10.6	9.7	9.7	11.4
87.5°	6.2	5.3	5.3	6.2	5.3	6.2	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)