

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: **LD8B40D010 ER8B409730 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: LD8B40D010 ER8B409730 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

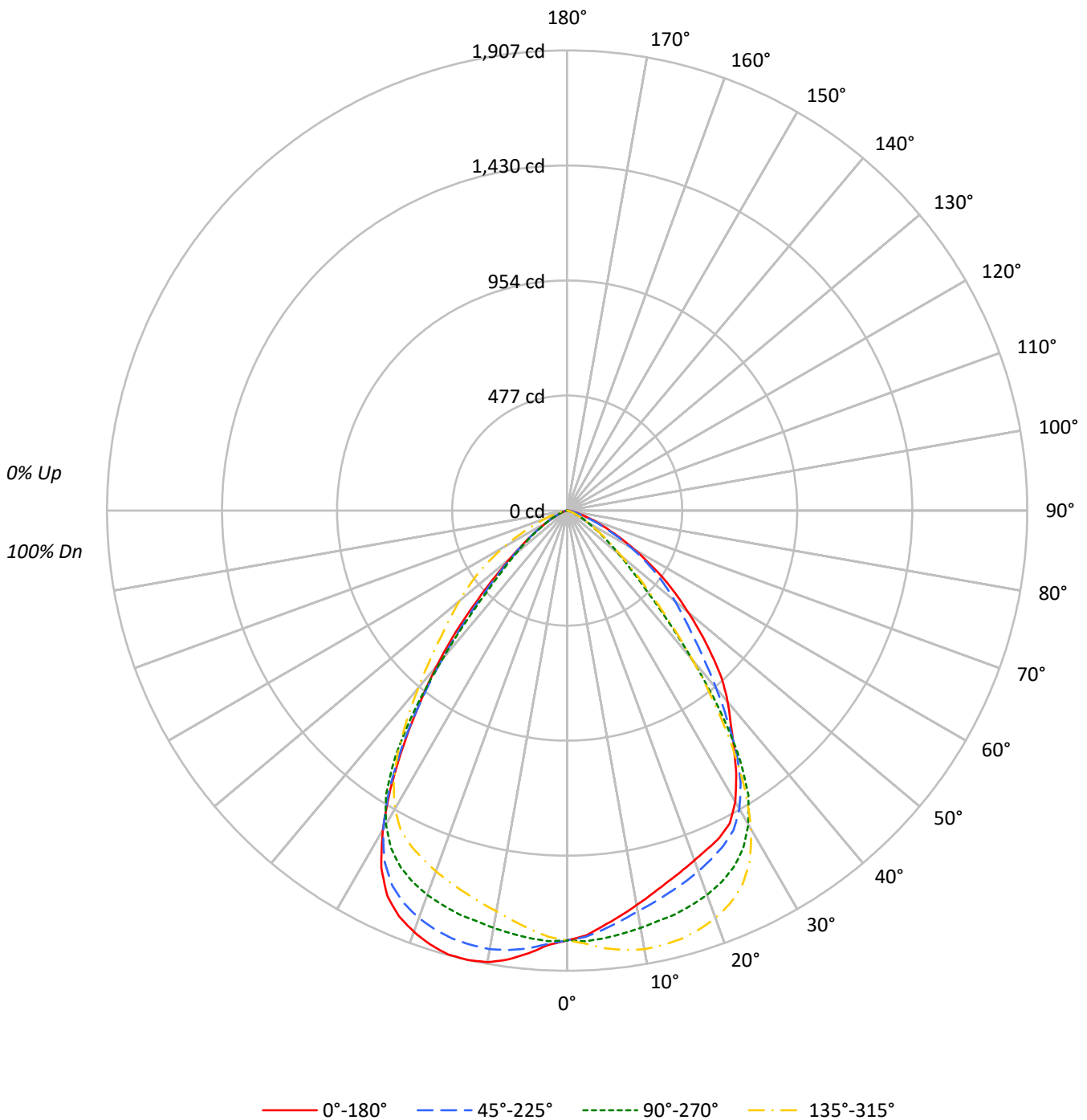
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169.5	5.7
10°-20°	490.9	16.4
20°-30°	743.3	24.8
30°-40°	745.0	24.8
40°-50°	467.8	15.6
50°-60°	249.3	8.3
60°-70°	102.5	3.4
70°-80°	27.1	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°	1403.7	46.8
0°-40°	2148.7	71.6
0°-60°	2865.8	95.5
0°-90°	3000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1781	1781	1781	1781	1781	
5°	1727	1778	1842	1778	1727	163
15°	1596	1732	1904	1732	1596	451
25°	1495	1631	1763	1631	1495	686
35°	1205	1239	1176	1239	1205	755
45°	849	454	525	454	849	653
55°	483	168	177	168	483	430
65°	192	51	47	51	192	199
75°	54	10	9	10	54	61
85°	11	0	1	0	11	12
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°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1762.7	1761.0	1760.1	1761.9	1762.7	1766.2	1765.4	1767.1	1767.1	1768.0	1769.7
5°	1727.1	1726.2	1727.1	1727.1	1730.6	1734.0	1733.2	1735.8	1737.5	1741.9	1743.6
7.5°	1694.1	1694.1	1693.2	1696.6	1698.4	1703.6	1702.7	1707.1	1709.7	1714.0	1720.1
10°	1660.1	1660.1	1661.0	1663.6	1664.5	1672.3	1672.3	1678.4	1681.9	1686.2	1694.1
12.5°	1627.1	1627.1	1632.3	1630.6	1634.0	1640.1	1642.7	1648.8	1654.0	1662.7	1670.6
15°	1595.8	1595.8	1597.5	1601.9	1604.5	1612.3	1616.6	1623.6	1629.7	1638.4	1649.7
17.5°	1568.8	1568.0	1568.8	1574.0	1579.3	1586.2	1589.7	1598.4	1604.5	1615.8	1626.2
20°	1541.9	1543.6	1543.6	1547.9	1551.4	1560.1	1563.6	1573.2	1580.1	1590.5	1602.7
22.5°	1518.4	1517.5	1517.5	1523.6	1526.2	1534.0	1537.5	1546.2	1554.0	1562.7	1574.0
25°	1494.9	1493.1	1496.7	1497.5	1499.2	1507.9	1510.5	1516.6	1524.5	1532.3	1543.6
27.5°	1460.1	1458.4	1459.2	1462.7	1465.3	1472.3	1474.0	1480.1	1486.2	1493.1	1502.7
30°	1393.1	1391.4	1390.6	1396.6	1399.3	1404.4	1407.1	1417.5	1419.2	1427.1	1434.0
32.5°	1304.4	1303.6	1305.3	1310.5	1313.1	1320.1	1323.6	1329.7	1334.0	1338.4	1345.3
35°	1205.3	1203.6	1205.3	1210.5	1210.5	1216.6	1219.2	1221.8	1221.0	1221.8	1220.1
37.5°	1113.1	1112.3	1113.1	1115.7	1113.1	1115.7	1113.1	1107.9	1098.4	1087.9	1077.5
40°	1034.9	1035.7	1030.5	1034.0	1024.4	1022.7	1013.1	1000.1	981.0	960.1	930.5
42.5°	951.4	948.8	945.3	947.0	939.2	933.1	917.5	901.0	876.6	841.8	806.1
45°	848.8	847.9	846.2	845.3	840.1	834.0	820.9	801.8	774.8	739.2	696.6
47.5°	748.8	746.1	746.1	747.0	740.9	740.1	729.6	713.1	689.6	654.8	610.5
50°	653.1	652.2	654.0	657.4	653.1	651.4	644.4	633.1	612.2	582.7	540.9
52.5°	567.0	566.1	567.9	572.2	570.5	572.2	565.3	556.6	542.6	513.9	477.4
55°	482.7	482.7	482.7	487.8	487.8	487.8	484.4	479.2	466.1	445.3	411.4
57.5°	394.8	395.7	400.9	401.8	400.9	402.7	401.8	396.5	387.9	373.1	347.0
60°	320.9	320.9	323.5	326.1	325.2	326.1	326.1	323.5	314.8	302.6	281.8
62.5°	253.9	256.5	254.8	256.5	260.0	256.5	254.8	253.1	247.0	239.1	221.7
65°	192.2	193.9	193.9	194.8	193.0	193.9	190.5	187.9	184.4	175.7	164.4
67.5°	146.1	146.1	146.1	146.1	145.2	144.4	143.5	140.9	134.8	131.3	119.1
70°	112.2	107.0	107.0	107.0	107.0	107.8	105.2	101.8	100.0	93.9	85.2
72.5°	74.8	76.5	74.8	74.8	73.1	73.9	70.4	68.7	67.0	63.5	58.3
75°	53.9	49.6	51.3	52.2	49.6	51.3	47.8	44.3	44.3	41.7	39.1
77.5°	34.8	33.9	34.8	35.7	34.8	33.9	32.2	30.4	30.4	29.6	27.0
80°	25.2	24.3	24.3	24.3	23.5	24.3	22.6	22.6	20.9	20.0	18.3
82.5°	16.5	16.5	15.6	16.5	15.6	16.5	13.9	13.9	13.9	13.0	11.3
85°	11.3	9.6	9.6	10.5	8.7	10.5	9.6	8.7	7.8	7.8	6.9
87.5°	5.2	6.1	5.2	6.1	5.2	5.2	6.1	5.2	5.2	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°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1772.3	1773.2	1773.2	1776.7	1778.4	1779.3	1779.3	1786.2	1783.6	1785.4	1787.1
5°	1747.1	1752.3	1754.1	1754.1	1763.6	1767.1	1770.6	1778.4	1779.3	1784.5	1790.6
7.5°	1722.7	1728.8	1732.3	1740.1	1746.2	1752.3	1762.7	1768.0	1773.2	1780.1	1787.9
10°	1699.2	1706.2	1713.2	1719.3	1728.8	1736.7	1743.6	1755.8	1761.9	1771.4	1781.9
12.5°	1676.7	1686.2	1692.3	1702.7	1713.2	1720.1	1730.6	1741.9	1751.4	1761.0	1773.2
15°	1656.7	1668.0	1674.9	1686.2	1697.5	1707.1	1718.4	1732.3	1739.3	1750.6	1761.9
17.5°	1634.9	1647.1	1655.8	1666.2	1680.1	1690.6	1700.1	1714.0	1722.7	1734.9	1748.0
20°	1612.3	1624.5	1634.9	1645.3	1659.3	1669.7	1681.0	1694.9	1704.5	1716.6	1727.1
22.5°	1585.4	1596.7	1607.9	1620.1	1634.0	1642.7	1655.8	1668.0	1678.4	1689.7	1700.1
25°	1550.6	1564.5	1573.2	1584.5	1595.8	1605.3	1619.2	1631.4	1640.1	1650.6	1660.1
27.5°	1509.7	1520.1	1527.1	1536.6	1547.9	1556.6	1567.1	1579.3	1588.0	1597.5	1604.5
30°	1440.1	1449.7	1455.8	1462.7	1474.0	1481.9	1490.6	1501.8	1507.9	1514.9	1521.0
32.5°	1348.8	1356.6	1360.1	1365.3	1373.2	1381.0	1387.9	1397.5	1400.1	1404.4	1404.4
35°	1216.6	1218.3	1217.5	1219.2	1222.7	1227.0	1233.1	1239.2	1242.7	1242.7	1240.1
37.5°	1061.8	1051.4	1040.1	1031.4	1028.8	1027.0	1030.5	1033.1	1036.6	1038.3	1034.0
40°	901.0	877.5	852.2	829.6	814.0	807.0	804.4	806.1	806.1	812.2	812.2
42.5°	762.7	726.1	688.8	654.8	632.2	614.8	607.0	607.0	607.9	612.2	614.8
45°	647.9	601.8	558.3	520.9	489.6	467.0	456.6	453.9	453.1	454.8	460.9
47.5°	560.0	512.2	467.0	420.9	387.9	365.2	355.7	352.2	348.7	352.2	353.1
50°	491.4	441.8	394.0	347.9	313.1	293.1	280.9	275.7	274.8	274.8	276.6
52.5°	428.7	382.6	334.8	287.9	251.3	232.2	220.9	218.3	214.8	218.3	218.3
55°	369.6	323.5	276.6	232.2	201.7	181.8	171.3	167.8	166.1	168.7	168.7
57.5°	305.3	266.1	222.6	182.6	152.2	138.3	130.4	126.1	125.2	127.0	125.2
60°	250.5	217.4	180.0	143.5	120.0	105.2	99.2	97.4	95.6	97.4	97.4
62.5°	198.3	170.5	140.0	112.2	92.2	81.8	74.8	74.8	73.9	73.9	74.8
65°	147.0	125.2	103.5	80.0	64.4	56.5	51.3	51.3	50.4	51.3	50.4
67.5°	107.0	92.2	74.8	58.3	46.1	41.7	38.3	35.7	37.4	35.7	34.8
70°	78.3	66.1	53.9	44.3	35.7	31.3	28.7	27.8	26.1	26.1	26.1
72.5°	52.2	44.3	36.5	28.7	23.5	19.1	18.3	16.5	14.8	15.6	17.4
75°	34.8	29.6	26.1	20.9	15.6	15.6	10.5	10.5	8.7	10.5	7.8
77.5°	24.3	20.0	15.6	13.0	10.5	9.6	6.9	6.9	6.1	6.1	6.1
80°	17.4	14.8	11.3	9.6	6.9	6.9	6.1	5.2	4.3	4.3	5.2
82.5°	10.5	7.8	7.8	6.9	4.3	3.5	2.6	3.5	1.8	1.8	1.8
85°	6.1	5.2	4.3	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°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1791.5	1790.6	1792.3	1792.3	1797.5	1796.6	1799.3	1799.3	1797.5	1798.4	1801.9
5°	1797.5	1800.2	1805.3	1809.7	1817.5	1821.0	1825.4	1829.7	1830.6	1833.2	1835.8
7.5°	1797.5	1806.2	1812.3	1820.1	1830.6	1836.7	1846.2	1854.1	1857.5	1861.9	1867.1
10°	1794.0	1802.7	1814.0	1822.7	1835.8	1845.4	1854.9	1867.1	1872.3	1879.3	1886.2
12.5°	1787.1	1796.6	1808.8	1820.1	1834.9	1843.6	1855.8	1867.1	1874.9	1884.5	1892.3
15°	1776.7	1787.9	1799.3	1810.6	1826.2	1836.7	1848.0	1861.0	1868.8	1879.3	1886.2
17.5°	1760.1	1772.3	1782.8	1793.2	1808.0	1820.1	1830.6	1842.8	1850.6	1859.3	1868.8
20°	1740.1	1751.4	1762.7	1771.4	1786.2	1796.6	1808.0	1819.3	1825.4	1827.1	1841.9
22.5°	1714.9	1722.7	1731.4	1745.4	1754.1	1763.6	1774.1	1784.5	1790.6	1800.2	1805.3
25°	1673.2	1681.0	1690.6	1696.6	1707.1	1714.9	1725.3	1736.7	1740.1	1747.1	1752.3
27.5°	1614.9	1619.2	1623.6	1628.8	1634.9	1639.3	1645.3	1650.6	1654.0	1657.5	1661.0
30°	1522.7	1522.7	1522.7	1519.2	1521.9	1524.5	1525.3	1524.5	1524.5	1523.6	1523.6
32.5°	1401.0	1394.0	1386.2	1379.2	1376.6	1373.2	1371.4	1368.8	1364.5	1361.8	1362.7
35°	1236.6	1221.0	1211.4	1202.7	1195.8	1190.5	1187.9	1185.3	1184.4	1181.0	1177.5
37.5°	1031.4	1020.1	1013.1	1007.9	1001.8	996.6	997.5	998.4	1000.9	999.2	1000.1
40°	814.0	811.4	814.0	807.9	806.1	807.9	812.2	818.3	821.8	825.3	831.4
42.5°	619.2	623.5	629.6	629.6	632.2	635.7	640.9	650.5	655.7	661.8	668.8
45°	466.1	471.3	479.2	481.8	483.5	487.8	494.0	501.8	505.2	510.5	516.6
47.5°	359.2	362.6	367.0	371.3	375.7	377.4	383.5	383.5	387.9	391.3	393.1
50°	280.0	283.5	287.0	289.6	291.3	293.9	295.7	298.3	299.1	300.9	301.7
52.5°	219.1	223.5	223.5	225.2	227.8	230.4	229.6	230.4	231.3	231.3	233.9
55°	171.3	171.3	173.9	173.9	175.7	174.8	175.7	175.7	175.7	175.7	176.5
57.5°	127.8	128.7	131.3	129.6	128.7	130.4	128.7	130.4	129.6	131.3	128.7
60°	98.3	98.3	99.2	99.2	100.0	100.0	100.0	99.2	99.2	98.3	98.3
62.5°	73.9	74.8	75.7	74.8	74.8	74.8	73.9	73.9	73.1	72.2	72.2
65°	49.6	48.7	50.4	48.7	49.6	49.6	48.7	49.6	47.0	47.8	47.0
67.5°	35.7	34.8	33.9	34.8	33.9	33.0	33.0	33.9	34.8	32.2	32.2
70°	23.5	24.3	23.5	24.3	25.2	25.2	24.3	23.5	24.3	22.6	23.5
72.5°	14.8	14.8	14.8	14.8	14.8	15.6	15.6	15.6	13.9	13.9	13.0
75°	6.9	9.6	7.8	6.9	9.6	9.6	8.7	8.7	7.8	7.8	7.8
77.5°	6.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.3	5.2	4.3
80°	3.5	3.5	3.5	2.6	3.5	3.5	4.3	3.5	3.5	2.6	4.3
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: P245884

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1801.0	1800.2	1801.0	1801.9	1801.0	1800.2	1801.0	1801.9	1798.4	1797.5	1799.3
5°	1839.3	1839.3	1841.0	1841.9	1841.0	1839.3	1839.3	1835.8	1833.2	1830.6	1829.7
7.5°	1872.3	1874.1	1875.8	1876.6	1875.8	1874.1	1872.3	1867.1	1861.9	1857.5	1854.1
10°	1892.3	1894.9	1898.4	1900.1	1898.4	1894.9	1892.3	1886.2	1879.3	1872.3	1867.1
12.5°	1901.0	1903.6	1908.0	1907.1	1908.0	1903.6	1901.0	1892.3	1884.5	1874.9	1867.1
15°	1894.9	1898.4	1902.7	1904.5	1902.7	1898.4	1894.9	1886.2	1879.3	1868.8	1861.0
17.5°	1875.8	1881.0	1883.6	1886.2	1883.6	1881.0	1875.8	1868.8	1859.3	1850.6	1842.8
20°	1849.7	1853.2	1856.7	1857.5	1856.7	1853.2	1849.7	1841.9	1827.1	1825.4	1819.3
22.5°	1812.3	1814.9	1822.7	1820.1	1822.7	1814.9	1812.3	1805.3	1800.2	1790.6	1784.5
25°	1758.4	1761.0	1761.9	1762.7	1761.9	1761.0	1758.4	1752.3	1747.1	1740.1	1736.7
27.5°	1665.4	1665.4	1667.1	1668.0	1667.1	1665.4	1665.4	1661.0	1657.5	1654.0	1650.6
30°	1524.5	1524.5	1524.5	1528.8	1524.5	1524.5	1524.5	1523.6	1523.6	1524.5	1524.5
32.5°	1361.8	1360.1	1358.4	1360.1	1358.4	1360.1	1361.8	1362.7	1361.8	1364.5	1368.8
35°	1177.5	1176.6	1179.2	1175.8	1179.2	1176.6	1177.5	1177.5	1181.0	1184.4	1185.3
37.5°	1000.9	999.2	1002.7	999.2	1002.7	999.2	1000.9	1000.1	999.2	1000.9	998.4
40°	833.1	834.8	834.8	841.8	834.8	834.8	833.1	831.4	825.3	821.8	818.3
42.5°	672.2	677.5	675.7	680.9	675.7	677.5	672.2	668.8	661.8	655.7	650.5
45°	520.0	523.5	523.5	525.3	523.5	523.5	520.0	516.6	510.5	505.2	501.8
47.5°	399.1	399.1	399.1	400.0	399.1	399.1	399.1	393.1	391.3	387.9	383.5
50°	303.5	304.4	305.3	306.1	305.3	304.4	303.5	301.7	300.9	299.1	298.3
52.5°	233.1	233.9	232.2	233.9	232.2	233.9	233.1	233.9	231.3	231.3	230.4
55°	176.5	175.7	176.5	177.4	176.5	175.7	176.5	176.5	175.7	175.7	175.7
57.5°	129.6	127.8	127.8	127.8	127.8	127.8	129.6	128.7	131.3	129.6	130.4
60°	96.5	97.4	97.4	98.3	97.4	97.4	96.5	98.3	98.3	99.2	99.2
62.5°	71.3	73.9	72.2	73.9	72.2	73.9	71.3	72.2	72.2	73.1	73.9
65°	46.1	46.1	46.1	47.0	46.1	46.1	46.1	47.0	47.8	47.0	49.6
67.5°	31.3	32.2	33.9	33.0	33.9	32.2	31.3	32.2	32.2	34.8	33.9
70°	25.2	22.6	22.6	25.2	22.6	22.6	25.2	23.5	22.6	24.3	23.5
72.5°	14.8	13.0	14.8	14.8	14.8	13.0	14.8	13.0	13.9	13.9	15.6
75°	7.8	6.9	6.1	8.7	6.1	6.9	7.8	7.8	7.8	7.8	8.7
77.5°	5.2	4.3	6.1	6.1	6.1	4.3	5.2	4.3	5.2	4.3	5.2
80°	2.6	3.5	2.6	4.3	2.6	3.5	2.6	4.3	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: P245884

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1799.3	1796.6	1797.5	1792.3	1792.3	1790.6	1791.5	1787.1	1785.4	1783.6	1786.2
5°	1825.4	1821.0	1817.5	1809.7	1805.3	1800.2	1797.5	1790.6	1784.5	1779.3	1778.4
7.5°	1846.2	1836.7	1830.6	1820.1	1812.3	1806.2	1797.5	1787.9	1780.1	1773.2	1768.0
10°	1854.9	1845.4	1835.8	1822.7	1814.0	1802.7	1794.0	1781.9	1771.4	1761.9	1755.8
12.5°	1855.8	1843.6	1834.9	1820.1	1808.8	1796.6	1787.1	1773.2	1761.0	1751.4	1741.9
15°	1848.0	1836.7	1826.2	1810.6	1799.3	1787.9	1776.7	1761.9	1750.6	1739.3	1732.3
17.5°	1830.6	1820.1	1808.0	1793.2	1782.8	1772.3	1760.1	1748.0	1734.9	1722.7	1714.0
20°	1808.0	1796.6	1786.2	1771.4	1762.7	1751.4	1740.1	1727.1	1716.6	1704.5	1694.9
22.5°	1774.1	1763.6	1754.1	1745.4	1731.4	1722.7	1714.9	1700.1	1689.7	1678.4	1668.0
25°	1725.3	1714.9	1707.1	1696.6	1690.6	1681.0	1673.2	1660.1	1650.6	1640.1	1631.4
27.5°	1645.3	1639.3	1634.9	1628.8	1623.6	1619.2	1614.9	1604.5	1597.5	1588.0	1579.3
30°	1525.3	1524.5	1521.9	1519.2	1522.7	1522.7	1522.7	1521.0	1514.9	1507.9	1501.8
32.5°	1371.4	1373.2	1376.6	1379.2	1386.2	1394.0	1401.0	1404.4	1404.4	1400.1	1397.5
35°	1187.9	1190.5	1195.8	1202.7	1211.4	1221.0	1236.6	1240.1	1242.7	1242.7	1239.2
37.5°	997.5	996.6	1001.8	1007.9	1013.1	1020.1	1031.4	1034.0	1038.3	1036.6	1033.1
40°	812.2	807.9	806.1	807.9	814.0	811.4	814.0	812.2	812.2	806.1	806.1
42.5°	640.9	635.7	632.2	629.6	629.6	623.5	619.2	614.8	612.2	607.9	607.0
45°	494.0	487.8	483.5	481.8	479.2	471.3	466.1	460.9	454.8	453.1	453.9
47.5°	383.5	377.4	375.7	371.3	367.0	362.6	359.2	353.1	352.2	348.7	352.2
50°	295.7	293.9	291.3	289.6	287.0	283.5	280.0	276.6	274.8	274.8	275.7
52.5°	229.6	230.4	227.8	225.2	223.5	223.5	219.1	218.3	218.3	214.8	218.3
55°	175.7	174.8	175.7	173.9	173.9	171.3	171.3	168.7	168.7	166.1	167.8
57.5°	128.7	130.4	128.7	129.6	131.3	128.7	127.8	125.2	127.0	125.2	126.1
60°	100.0	100.0	100.0	99.2	99.2	98.3	98.3	97.4	97.4	95.6	97.4
62.5°	73.9	74.8	74.8	74.8	75.7	74.8	73.9	74.8	73.9	73.9	74.8
65°	48.7	49.6	49.6	48.7	50.4	48.7	49.6	50.4	51.3	50.4	51.3
67.5°	33.0	33.0	33.9	34.8	33.9	34.8	35.7	34.8	35.7	37.4	35.7
70°	24.3	25.2	25.2	24.3	23.5	24.3	23.5	26.1	26.1	26.1	27.8
72.5°	15.6	15.6	14.8	14.8	14.8	14.8	14.8	17.4	15.6	14.8	16.5
75°	8.7	9.6	9.6	6.9	7.8	9.6	6.9	7.8	10.5	8.7	10.5
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	6.9	6.1	6.1	6.1	6.9
80°	4.3	3.5	3.5	2.6	3.5	3.5	3.5	5.2	4.3	4.3	5.2
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: P245884

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1779.3	1779.3	1778.4	1776.7	1773.2	1773.2	1772.3	1769.7	1768.0	1767.1	1767.1
5°	1770.6	1767.1	1763.6	1754.1	1754.1	1752.3	1747.1	1743.6	1741.9	1737.5	1735.8
7.5°	1762.7	1752.3	1746.2	1740.1	1732.3	1728.8	1722.7	1720.1	1714.0	1709.7	1707.1
10°	1743.6	1736.7	1728.8	1719.3	1713.2	1706.2	1699.2	1694.1	1686.2	1681.9	1678.4
12.5°	1730.6	1720.1	1713.2	1702.7	1692.3	1686.2	1676.7	1670.6	1662.7	1654.0	1648.8
15°	1718.4	1707.1	1697.5	1686.2	1674.9	1668.0	1656.7	1649.7	1638.4	1629.7	1623.6
17.5°	1700.1	1690.6	1680.1	1666.2	1655.8	1647.1	1634.9	1626.2	1615.8	1604.5	1598.4
20°	1681.0	1669.7	1659.3	1645.3	1634.9	1624.5	1612.3	1602.7	1590.5	1580.1	1573.2
22.5°	1655.8	1642.7	1634.0	1620.1	1607.9	1596.7	1585.4	1574.0	1562.7	1554.0	1546.2
25°	1619.2	1605.3	1595.8	1584.5	1573.2	1564.5	1550.6	1543.6	1532.3	1524.5	1516.6
27.5°	1567.1	1556.6	1547.9	1536.6	1527.1	1520.1	1509.7	1502.7	1493.1	1486.2	1480.1
30°	1490.6	1481.9	1474.0	1462.7	1455.8	1449.7	1440.1	1434.0	1427.1	1419.2	1417.5
32.5°	1387.9	1381.0	1373.2	1365.3	1360.1	1356.6	1348.8	1345.3	1338.4	1334.0	1329.7
35°	1233.1	1227.0	1222.7	1219.2	1217.5	1218.3	1216.6	1220.1	1221.8	1221.0	1221.8
37.5°	1030.5	1027.0	1028.8	1031.4	1040.1	1051.4	1061.8	1077.5	1087.9	1098.4	1107.9
40°	804.4	807.0	814.0	829.6	852.2	877.5	901.0	930.5	960.1	981.0	1000.1
42.5°	607.0	614.8	632.2	654.8	688.8	726.1	762.7	806.1	841.8	876.6	901.0
45°	456.6	467.0	489.6	520.9	558.3	601.8	647.9	696.6	739.2	774.8	801.8
47.5°	355.7	365.2	387.9	420.9	467.0	512.2	560.0	610.5	654.8	689.6	713.1
50°	280.9	293.1	313.1	347.9	394.0	441.8	491.4	540.9	582.7	612.2	633.1
52.5°	220.9	232.2	251.3	287.9	334.8	382.6	428.7	477.4	513.9	542.6	556.6
55°	171.3	181.8	201.7	232.2	276.6	323.5	369.6	411.4	445.3	466.1	479.2
57.5°	130.4	138.3	152.2	182.6	222.6	266.1	305.3	347.0	373.1	387.9	396.5
60°	99.2	105.2	120.0	143.5	180.0	217.4	250.5	281.8	302.6	314.8	323.5
62.5°	74.8	81.8	92.2	112.2	140.0	170.5	198.3	221.7	239.1	247.0	253.1
65°	51.3	56.5	64.4	80.0	103.5	125.2	147.0	164.4	175.7	184.4	187.9
67.5°	38.3	41.7	46.1	58.3	74.8	92.2	107.0	119.1	131.3	134.8	140.9
70°	28.7	31.3	35.7	44.3	53.9	66.1	78.3	85.2	93.9	100.0	101.8
72.5°	18.3	19.1	23.5	28.7	36.5	44.3	52.2	58.3	63.5	67.0	68.7
75°	10.5	15.6	15.6	20.9	26.1	29.6	34.8	39.1	41.7	44.3	44.3
77.5°	6.9	9.6	10.5	13.0	15.6	20.0	24.3	27.0	29.6	30.4	30.4
80°	6.1	6.9	6.9	9.6	11.3	14.8	17.4	18.3	20.0	20.9	22.6
82.5°	2.6	3.5	4.3	6.9	7.8	7.8	10.5	11.3	13.0	13.9	13.9
85°	0.9	1.8	1.8	2.6	4.3	5.2	6.1	6.9	7.8	7.8	8.7
87.5°	0.9	0.9	0.0	0.9	1.8	1.8	3.5	3.5	3.5	5.2	5.2
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: LD8B40D010 ER8B409730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1765.4	1766.2	1762.7	1761.9	1760.1	1761.0	1762.7
5°	1733.2	1734.0	1730.6	1727.1	1727.1	1726.2	1727.1
7.5°	1702.7	1703.6	1698.4	1696.6	1693.2	1694.1	1694.1
10°	1672.3	1672.3	1664.5	1663.6	1661.0	1660.1	1660.1
12.5°	1642.7	1640.1	1634.0	1630.6	1632.3	1627.1	1627.1
15°	1616.6	1612.3	1604.5	1601.9	1597.5	1595.8	1595.8
17.5°	1589.7	1586.2	1579.3	1574.0	1568.8	1568.0	1568.8
20°	1563.6	1560.1	1551.4	1547.9	1543.6	1543.6	1541.9
22.5°	1537.5	1534.0	1526.2	1523.6	1517.5	1517.5	1518.4
25°	1510.5	1507.9	1499.2	1497.5	1496.7	1493.1	1494.9
27.5°	1474.0	1472.3	1465.3	1462.7	1459.2	1458.4	1460.1
30°	1407.1	1404.4	1399.3	1396.6	1390.6	1391.4	1393.1
32.5°	1323.6	1320.1	1313.1	1310.5	1305.3	1303.6	1304.4
35°	1219.2	1216.6	1210.5	1210.5	1205.3	1203.6	1205.3
37.5°	1113.1	1115.7	1113.1	1115.7	1113.1	1112.3	1113.1
40°	1013.1	1022.7	1024.4	1034.0	1030.5	1035.7	1034.9
42.5°	917.5	933.1	939.2	947.0	945.3	948.8	951.4
45°	820.9	834.0	840.1	845.3	846.2	847.9	848.8
47.5°	729.6	740.1	740.9	747.0	746.1	746.1	748.8
50°	644.4	651.4	653.1	657.4	654.0	652.2	653.1
52.5°	565.3	572.2	570.5	572.2	567.9	566.1	567.0
55°	484.4	487.8	487.8	487.8	482.7	482.7	482.7
57.5°	401.8	402.7	400.9	401.8	400.9	395.7	394.8
60°	326.1	326.1	325.2	326.1	323.5	320.9	320.9
62.5°	254.8	256.5	260.0	256.5	254.8	256.5	253.9
65°	190.5	193.9	193.0	194.8	193.9	193.9	192.2
67.5°	143.5	144.4	145.2	146.1	146.1	146.1	146.1
70°	105.2	107.8	107.0	107.0	107.0	107.0	112.2
72.5°	70.4	73.9	73.1	74.8	74.8	76.5	74.8
75°	47.8	51.3	49.6	52.2	51.3	49.6	53.9
77.5°	32.2	33.9	34.8	35.7	34.8	33.9	34.8
80°	22.6	24.3	23.5	24.3	24.3	24.3	25.2
82.5°	13.9	16.5	15.6	16.5	15.6	16.5	16.5
85°	9.6	10.5	8.7	10.5	9.6	9.6	11.3
87.5°	6.1	5.2	5.2	6.1	5.2	6.1	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)