

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: P244582

Luminaire Tested: **LD8B40D010 ER8B409727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244582
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

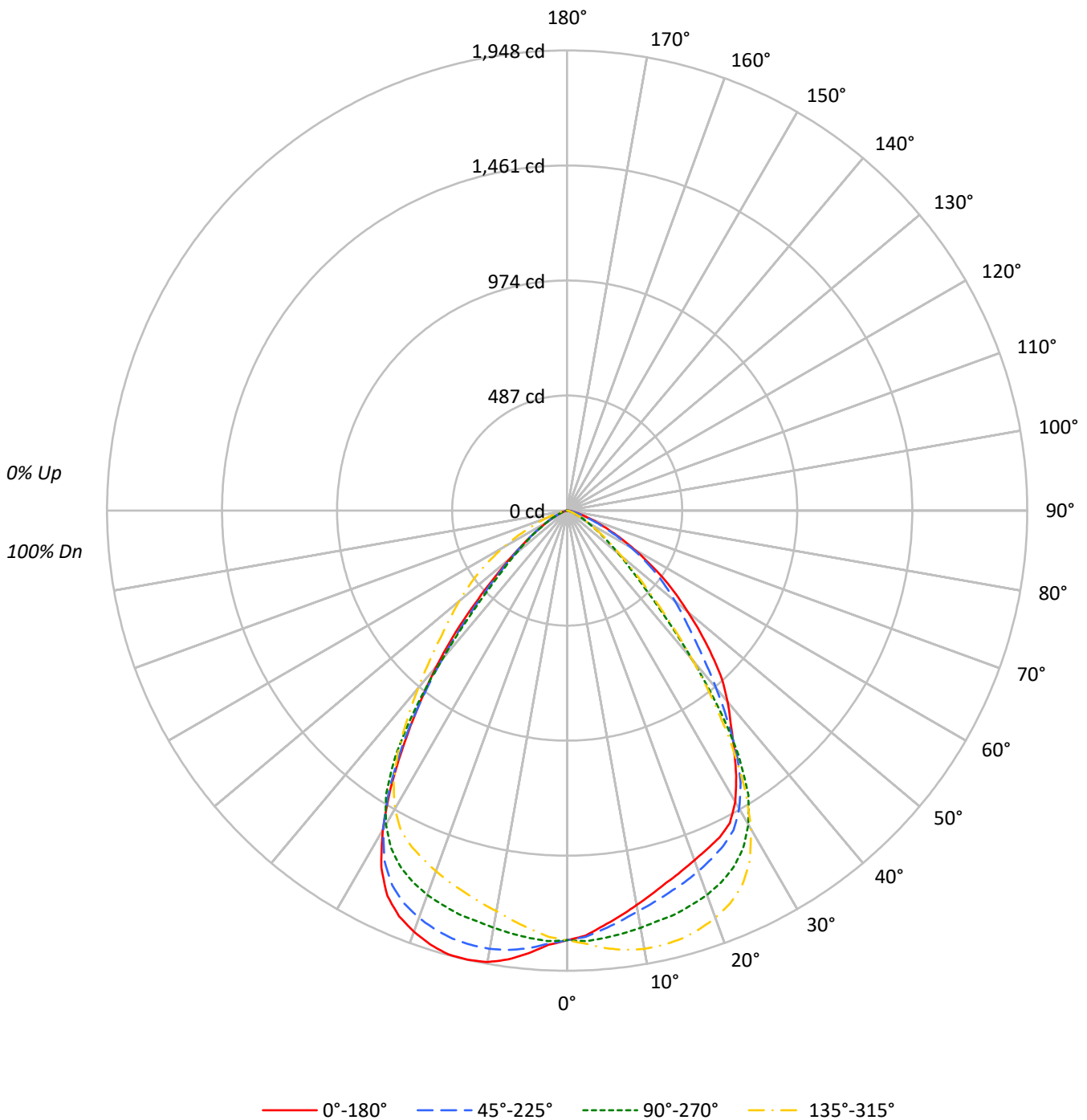
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	173.1	5.7
10°-20°	501.4	16.4
20°-30°	759.2	24.8
30°-40°	760.9	24.8
40°-50°	477.8	15.6
50°-60°	254.6	8.3
60°-70°	104.7	3.4
70°-80°	27.7	0.9
80°-90°	4.7	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°	1433.7	46.8
0°-40°	2194.6	71.6
0°-60°	2927.0	95.5
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1819	1819	1819	1819	1819	
5°	1764	1816	1881	1816	1764	166
15°	1630	1769	1945	1769	1630	461
25°	1527	1666	1800	1666	1527	700
35°	1231	1266	1201	1266	1231	771
45°	867	464	536	464	867	667
55°	493	171	181	171	493	439
65°	196	52	48	52	196	204
75°	55	11	9	11	55	62
85°	12	0	1	0	12	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°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1800.4	1798.6	1797.7	1799.5	1800.4	1803.9	1803.0	1804.8	1804.8	1805.7	1807.4
5°	1763.9	1763.0	1763.9	1763.9	1767.5	1771.0	1770.2	1772.8	1774.6	1779.0	1780.8
7.5°	1730.2	1730.2	1729.3	1732.8	1734.6	1740.0	1739.0	1743.5	1746.2	1750.6	1756.8
10°	1695.5	1695.5	1696.4	1699.1	1700.0	1708.0	1708.0	1714.2	1717.7	1722.2	1730.2
12.5°	1661.8	1661.8	1667.1	1665.3	1668.9	1675.1	1677.8	1684.0	1689.3	1698.2	1706.2
15°	1629.8	1629.8	1631.6	1636.0	1638.7	1646.7	1651.1	1658.3	1664.5	1673.4	1684.9
17.5°	1602.3	1601.4	1602.3	1607.6	1613.0	1620.0	1623.6	1632.5	1638.7	1650.2	1660.9
20°	1574.8	1576.5	1576.5	1581.0	1584.5	1593.4	1596.9	1606.7	1613.8	1624.5	1636.9
22.5°	1550.8	1549.9	1549.9	1556.1	1558.8	1566.7	1570.3	1579.2	1587.2	1596.1	1607.6
25°	1526.8	1525.0	1528.6	1529.5	1531.2	1540.1	1542.8	1549.0	1557.0	1565.0	1576.5
27.5°	1491.3	1489.5	1490.4	1493.9	1496.6	1503.7	1505.5	1511.7	1517.9	1525.0	1534.8
30°	1422.9	1421.1	1420.2	1426.4	1429.1	1434.4	1437.1	1447.7	1449.5	1457.5	1464.6
32.5°	1332.3	1331.4	1333.2	1338.5	1341.1	1348.3	1351.8	1358.0	1362.5	1366.9	1374.0
35°	1231.0	1229.2	1231.0	1236.4	1236.4	1242.6	1245.3	1247.9	1247.0	1247.9	1246.1
37.5°	1136.9	1136.0	1136.9	1139.5	1136.9	1139.5	1136.9	1131.6	1121.8	1111.1	1100.4
40°	1056.9	1057.8	1052.5	1056.1	1046.3	1044.5	1034.7	1021.4	1001.9	980.6	950.4
42.5°	971.7	969.0	965.5	967.2	959.3	953.0	937.0	920.2	895.3	859.8	823.3
45°	866.9	866.0	864.2	863.3	858.0	851.8	838.4	818.9	791.4	755.0	711.4
47.5°	764.7	762.1	762.1	762.9	756.7	755.8	745.2	728.3	704.3	668.8	623.5
50°	667.0	666.1	667.9	671.5	667.0	665.3	658.2	646.6	625.3	595.1	552.4
52.5°	579.1	578.2	580.0	584.4	582.6	584.4	577.3	568.4	554.2	524.9	487.6
55°	493.0	493.0	493.0	498.3	498.3	498.3	494.7	489.4	476.1	454.7	420.1
57.5°	403.2	404.1	409.5	410.3	409.5	411.2	410.3	405.0	396.1	381.0	354.4
60°	327.7	327.7	330.4	333.1	332.2	333.1	333.1	330.4	321.5	309.1	287.8
62.5°	259.3	262.0	260.2	262.0	265.6	262.0	260.2	258.5	252.3	244.2	226.5
65°	196.3	198.1	198.1	199.0	197.2	198.1	194.5	191.9	188.3	179.4	167.9
67.5°	149.2	149.2	149.2	149.2	148.3	147.4	146.6	143.9	137.7	134.1	121.7
70°	114.6	109.2	109.2	109.2	109.2	110.2	107.5	103.9	102.1	95.9	87.0
72.5°	76.4	78.2	76.4	76.4	74.6	75.5	71.9	70.2	68.4	64.9	59.5
75°	55.1	50.6	52.4	53.3	50.6	52.4	48.8	45.3	45.3	42.6	40.0
77.5°	35.5	34.7	35.5	36.4	35.5	34.7	32.9	31.1	31.1	30.2	27.5
80°	25.8	24.9	24.9	24.9	24.0	24.9	23.1	23.1	21.3	20.4	18.6
82.5°	16.9	16.9	16.0	16.9	16.0	16.9	14.2	14.2	14.2	13.3	11.6
85°	11.6	9.8	9.8	10.7	8.9	10.7	9.8	8.9	8.0	8.0	7.1
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°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1810.1	1811.0	1811.0	1814.6	1816.3	1817.2	1817.2	1824.3	1821.7	1823.5	1825.2
5°	1784.4	1789.7	1791.5	1791.5	1801.2	1804.8	1808.3	1816.3	1817.2	1822.5	1828.8
7.5°	1759.5	1765.7	1769.3	1777.3	1783.5	1789.7	1800.4	1805.7	1811.0	1818.1	1826.1
10°	1735.5	1742.6	1749.7	1755.9	1765.7	1773.7	1780.8	1793.2	1799.5	1809.2	1819.9
12.5°	1712.4	1722.2	1728.4	1739.0	1749.7	1756.8	1767.5	1779.0	1788.8	1798.6	1811.0
15°	1692.0	1703.5	1710.6	1722.2	1733.7	1743.5	1755.1	1769.3	1776.4	1787.9	1799.5
17.5°	1669.8	1682.2	1691.1	1701.8	1716.0	1726.6	1736.4	1750.6	1759.5	1771.9	1785.3
20°	1646.7	1659.1	1669.8	1680.4	1694.7	1705.3	1716.9	1731.1	1740.8	1753.3	1763.9
22.5°	1619.2	1630.7	1642.2	1654.7	1668.9	1677.8	1691.1	1703.5	1714.2	1725.7	1736.4
25°	1583.6	1597.9	1606.7	1618.3	1629.8	1639.6	1653.8	1666.2	1675.1	1685.8	1695.5
27.5°	1541.9	1552.6	1559.7	1569.4	1581.0	1589.9	1600.5	1613.0	1621.8	1631.6	1638.7
30°	1470.8	1480.6	1486.8	1493.9	1505.5	1513.5	1522.4	1533.9	1540.1	1547.2	1553.4
32.5°	1377.6	1385.6	1389.1	1394.4	1402.5	1410.4	1417.6	1427.3	1430.0	1434.4	1434.4
35°	1242.6	1244.3	1243.5	1245.3	1248.8	1253.2	1259.4	1265.7	1269.2	1269.2	1266.6
37.5°	1084.5	1073.8	1062.3	1053.4	1050.7	1048.9	1052.5	1055.1	1058.7	1060.5	1056.1
40°	920.2	896.2	870.4	847.3	831.3	824.2	821.6	823.3	823.3	829.5	829.5
42.5°	778.9	741.6	703.5	668.8	645.7	628.0	620.0	620.0	620.8	625.3	628.0
45°	661.7	614.6	570.2	532.0	500.0	476.9	466.3	463.6	462.8	464.5	470.7
47.5°	572.0	523.2	476.9	429.9	396.1	373.0	363.3	359.7	356.2	359.7	360.6
50°	501.8	451.2	402.4	355.3	319.7	299.3	286.9	281.5	280.7	280.7	282.5
52.5°	437.9	390.8	342.0	294.0	256.7	237.2	225.6	222.9	219.4	222.9	222.9
55°	377.5	330.4	282.5	237.2	206.0	185.6	175.0	171.4	169.6	172.3	172.3
57.5°	311.8	271.8	227.4	186.5	155.4	141.2	133.2	128.8	127.9	129.7	127.9
60°	255.8	222.1	183.9	146.6	122.6	107.5	101.3	99.5	97.7	99.5	99.5
62.5°	202.5	174.1	143.0	114.6	94.1	83.5	76.4	76.4	75.5	75.5	76.4
65°	150.1	127.9	105.7	81.7	65.7	57.7	52.4	52.4	51.5	52.4	51.5
67.5°	109.2	94.1	76.4	59.5	47.1	42.6	39.1	36.4	38.2	36.4	35.5
70°	80.0	67.5	55.1	45.3	36.4	32.0	29.3	28.4	26.7	26.7	26.7
72.5°	53.3	45.3	37.3	29.3	24.0	19.5	18.6	16.9	15.1	16.0	17.8
75°	35.5	30.2	26.7	21.3	16.0	16.0	10.7	10.7	8.9	10.7	8.0
77.5°	24.9	20.4	16.0	13.3	10.7	9.8	7.1	7.1	6.2	6.2	6.2
80°	17.8	15.1	11.6	9.8	7.1	7.1	6.2	5.3	4.4	4.4	5.3
82.5°	10.7	8.0	8.0	7.1	4.4	3.5	2.7	3.5	1.8	1.8	1.8
85°	6.2	5.3	4.4	2.7	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°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1829.7	1828.8	1830.6	1830.6	1835.9	1835.0	1837.6	1837.6	1835.9	1836.8	1840.3
5°	1835.9	1838.6	1843.9	1848.3	1856.3	1859.9	1864.3	1868.8	1869.6	1872.3	1875.0
7.5°	1835.9	1844.8	1851.0	1859.0	1869.6	1875.8	1885.6	1893.6	1897.2	1901.6	1906.9
10°	1832.3	1841.2	1852.7	1861.6	1875.0	1884.7	1894.5	1906.9	1912.3	1919.4	1926.5
12.5°	1825.2	1835.0	1847.4	1859.0	1874.1	1882.9	1895.4	1906.9	1914.9	1924.7	1932.7
15°	1814.6	1826.1	1837.6	1849.2	1865.2	1875.8	1887.4	1900.7	1908.7	1919.4	1926.5
17.5°	1797.7	1810.1	1820.8	1831.4	1846.5	1859.0	1869.6	1882.1	1890.1	1899.0	1908.7
20°	1777.3	1788.8	1800.4	1809.2	1824.3	1835.0	1846.5	1858.1	1864.3	1866.1	1881.2
22.5°	1751.5	1759.5	1768.4	1782.6	1791.5	1801.2	1811.9	1822.5	1828.8	1838.6	1843.9
25°	1708.8	1716.9	1726.6	1732.8	1743.5	1751.5	1762.2	1773.7	1777.3	1784.4	1789.7
27.5°	1649.4	1653.8	1658.3	1663.6	1669.8	1674.2	1680.4	1685.8	1689.3	1692.9	1696.4
30°	1555.2	1555.2	1555.2	1551.6	1554.3	1557.0	1557.9	1557.0	1557.0	1556.1	1556.1
32.5°	1430.9	1423.8	1415.8	1408.7	1406.0	1402.5	1400.7	1398.0	1393.6	1390.9	1391.8
35°	1263.0	1247.0	1237.2	1228.4	1221.3	1215.9	1213.3	1210.6	1209.7	1206.2	1202.6
37.5°	1053.4	1041.8	1034.7	1029.4	1023.2	1017.9	1018.7	1019.7	1022.3	1020.5	1021.4
40°	831.3	828.7	831.3	825.1	823.3	825.1	829.5	835.8	839.3	842.9	849.1
42.5°	632.4	636.8	643.1	643.1	645.7	649.3	654.6	664.4	669.7	675.9	683.0
45°	476.1	481.4	489.4	492.0	493.8	498.3	504.5	512.5	516.0	521.4	527.6
47.5°	366.8	370.4	374.8	379.3	383.7	385.5	391.7	391.7	396.1	399.7	401.4
50°	286.0	289.5	293.1	295.8	297.5	300.2	302.0	304.6	305.5	307.3	308.2
52.5°	223.8	228.3	228.3	230.0	232.7	235.4	234.5	235.4	236.2	236.2	238.9
55°	175.0	175.0	177.6	177.6	179.4	178.5	179.4	179.4	179.4	179.4	180.3
57.5°	130.6	131.5	134.1	132.3	131.5	133.2	131.5	133.2	132.3	134.1	131.5
60°	100.4	100.4	101.3	101.3	102.1	102.1	102.1	101.3	101.3	100.4	100.4
62.5°	75.5	76.4	77.3	76.4	76.4	76.4	75.5	75.5	74.6	73.7	73.7
65°	50.6	49.8	51.5	49.8	50.6	50.6	49.8	50.6	48.0	48.8	48.0
67.5°	36.4	35.5	34.7	35.5	34.7	33.7	33.7	34.7	35.5	32.9	32.9
70°	24.0	24.9	24.0	24.9	25.8	25.8	24.9	24.0	24.9	23.1	24.0
72.5°	15.1	15.1	15.1	15.1	15.1	16.0	16.0	16.0	14.2	14.2	13.3
75°	7.1	9.8	8.0	7.1	9.8	9.8	8.9	8.9	8.0	8.0	8.0
77.5°	7.1	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	2.7	3.5	3.5	4.4	3.5	3.5	2.7	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1839.4	1838.6	1839.4	1840.3	1839.4	1838.6	1839.4	1840.3	1836.8	1835.9	1837.6
5°	1878.5	1878.5	1880.3	1881.2	1880.3	1878.5	1878.5	1875.0	1872.3	1869.6	1868.8
7.5°	1912.3	1914.1	1915.8	1916.7	1915.8	1914.1	1912.3	1906.9	1901.6	1897.2	1893.6
10°	1932.7	1935.4	1938.9	1940.7	1938.9	1935.4	1932.7	1926.5	1919.4	1912.3	1906.9
12.5°	1941.6	1944.2	1948.7	1947.8	1948.7	1944.2	1941.6	1932.7	1924.7	1914.9	1906.9
15°	1935.4	1938.9	1943.3	1945.1	1943.3	1938.9	1935.4	1926.5	1919.4	1908.7	1900.7
17.5°	1915.8	1921.1	1923.8	1926.5	1923.8	1921.1	1915.8	1908.7	1899.0	1890.1	1882.1
20°	1889.2	1892.7	1896.3	1897.2	1896.3	1892.7	1889.2	1881.2	1866.1	1864.3	1858.1
22.5°	1851.0	1853.7	1861.6	1859.0	1861.6	1853.7	1851.0	1843.9	1838.6	1828.8	1822.5
25°	1795.9	1798.6	1799.5	1800.4	1799.5	1798.6	1795.9	1789.7	1784.4	1777.3	1773.7
27.5°	1700.9	1700.9	1702.6	1703.5	1702.6	1700.9	1700.9	1696.4	1692.9	1689.3	1685.8
30°	1557.0	1557.0	1557.0	1561.4	1557.0	1557.0	1557.0	1556.1	1556.1	1557.0	1557.0
32.5°	1390.9	1389.1	1387.4	1389.1	1387.4	1389.1	1390.9	1391.8	1390.9	1393.6	1398.0
35°	1202.6	1201.7	1204.4	1200.8	1204.4	1201.7	1202.6	1202.6	1206.2	1209.7	1210.6
37.5°	1022.3	1020.5	1024.1	1020.5	1024.1	1020.5	1022.3	1021.4	1020.5	1022.3	1019.7
40°	850.9	852.7	852.7	859.8	852.7	852.7	850.9	849.1	842.9	839.3	835.8
42.5°	686.6	691.9	690.1	695.5	690.1	691.9	686.6	683.0	675.9	669.7	664.4
45°	531.1	534.7	534.7	536.5	534.7	534.7	531.1	527.6	521.4	516.0	512.5
47.5°	407.7	407.7	407.7	408.6	407.7	407.7	407.7	401.4	399.7	396.1	391.7
50°	310.0	310.9	311.8	312.6	311.8	310.9	310.0	308.2	307.3	305.5	304.6
52.5°	238.0	238.9	237.2	238.9	237.2	238.9	238.0	238.9	236.2	236.2	235.4
55°	180.3	179.4	180.3	181.2	180.3	179.4	180.3	180.3	179.4	179.4	179.4
57.5°	132.3	130.6	130.6	130.6	130.6	130.6	132.3	131.5	134.1	132.3	133.2
60°	98.6	99.5	99.5	100.4	99.5	99.5	98.6	100.4	100.4	101.3	101.3
62.5°	72.8	75.5	73.7	75.5	73.7	75.5	72.8	73.7	73.7	74.6	75.5
65°	47.1	47.1	47.1	48.0	47.1	47.1	47.1	48.0	48.8	48.0	50.6
67.5°	32.0	32.9	34.7	33.7	34.7	32.9	32.0	32.9	32.9	35.5	34.7
70°	25.8	23.1	23.1	25.8	23.1	23.1	25.8	24.0	23.1	24.9	24.0
72.5°	15.1	13.3	15.1	15.1	15.1	13.3	15.1	13.3	14.2	14.2	16.0
75°	8.0	7.1	6.2	8.9	6.2	7.1	8.0	8.0	8.0	8.0	8.9
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°	2.7	3.5	2.7	4.4	2.7	3.5	2.7	4.4	2.7	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1837.6	1835.0	1835.9	1830.6	1830.6	1828.8	1829.7	1825.2	1823.5	1821.7	1824.3
5°	1864.3	1859.9	1856.3	1848.3	1843.9	1838.6	1835.9	1828.8	1822.5	1817.2	1816.3
7.5°	1885.6	1875.8	1869.6	1859.0	1851.0	1844.8	1835.9	1826.1	1818.1	1811.0	1805.7
10°	1894.5	1884.7	1875.0	1861.6	1852.7	1841.2	1832.3	1819.9	1809.2	1799.5	1793.2
12.5°	1895.4	1882.9	1874.1	1859.0	1847.4	1835.0	1825.2	1811.0	1798.6	1788.8	1779.0
15°	1887.4	1875.8	1865.2	1849.2	1837.6	1826.1	1814.6	1799.5	1787.9	1776.4	1769.3
17.5°	1869.6	1859.0	1846.5	1831.4	1820.8	1810.1	1797.7	1785.3	1771.9	1759.5	1750.6
20°	1846.5	1835.0	1824.3	1809.2	1800.4	1788.8	1777.3	1763.9	1753.3	1740.8	1731.1
22.5°	1811.9	1801.2	1791.5	1782.6	1768.4	1759.5	1751.5	1736.4	1725.7	1714.2	1703.5
25°	1762.2	1751.5	1743.5	1732.8	1726.6	1716.9	1708.8	1695.5	1685.8	1675.1	1666.2
27.5°	1680.4	1674.2	1669.8	1663.6	1658.3	1653.8	1649.4	1638.7	1631.6	1621.8	1613.0
30°	1557.9	1557.0	1554.3	1551.6	1555.2	1555.2	1555.2	1553.4	1547.2	1540.1	1533.9
32.5°	1400.7	1402.5	1406.0	1408.7	1415.8	1423.8	1430.9	1434.4	1434.4	1430.0	1427.3
35°	1213.3	1215.9	1221.3	1228.4	1237.2	1247.0	1263.0	1266.6	1269.2	1269.2	1265.7
37.5°	1018.7	1017.9	1023.2	1029.4	1034.7	1041.8	1053.4	1056.1	1060.5	1058.7	1055.1
40°	829.5	825.1	823.3	825.1	831.3	828.7	831.3	829.5	829.5	823.3	823.3
42.5°	654.6	649.3	645.7	643.1	643.1	636.8	632.4	628.0	625.3	620.8	620.0
45°	504.5	498.3	493.8	492.0	489.4	481.4	476.1	470.7	464.5	462.8	463.6
47.5°	391.7	385.5	383.7	379.3	374.8	370.4	366.8	360.6	359.7	356.2	359.7
50°	302.0	300.2	297.5	295.8	293.1	289.5	286.0	282.5	280.7	280.7	281.5
52.5°	234.5	235.4	232.7	230.0	228.3	228.3	223.8	222.9	222.9	219.4	222.9
55°	179.4	178.5	179.4	177.6	177.6	175.0	175.0	172.3	172.3	169.6	171.4
57.5°	131.5	133.2	131.5	132.3	134.1	131.5	130.6	127.9	129.7	127.9	128.8
60°	102.1	102.1	102.1	101.3	101.3	100.4	100.4	99.5	99.5	97.7	99.5
62.5°	75.5	76.4	76.4	76.4	77.3	76.4	75.5	76.4	75.5	75.5	76.4
65°	49.8	50.6	50.6	49.8	51.5	49.8	50.6	51.5	52.4	51.5	52.4
67.5°	33.7	33.7	34.7	35.5	34.7	35.5	36.4	35.5	36.4	38.2	36.4
70°	24.9	25.8	25.8	24.9	24.0	24.9	24.0	26.7	26.7	26.7	28.4
72.5°	16.0	16.0	15.1	15.1	15.1	15.1	15.1	17.8	16.0	15.1	16.9
75°	8.9	9.8	9.8	7.1	8.0	9.8	7.1	8.0	10.7	8.9	10.7
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	7.1	6.2	6.2	6.2	7.1
80°	4.4	3.5	3.5	2.7	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1817.2	1817.2	1816.3	1814.6	1811.0	1811.0	1810.1	1807.4	1805.7	1804.8	1804.8
5°	1808.3	1804.8	1801.2	1791.5	1791.5	1789.7	1784.4	1780.8	1779.0	1774.6	1772.8
7.5°	1800.4	1789.7	1783.5	1777.3	1769.3	1765.7	1759.5	1756.8	1750.6	1746.2	1743.5
10°	1780.8	1773.7	1765.7	1755.9	1749.7	1742.6	1735.5	1730.2	1722.2	1717.7	1714.2
12.5°	1767.5	1756.8	1749.7	1739.0	1728.4	1722.2	1712.4	1706.2	1698.2	1689.3	1684.0
15°	1755.1	1743.5	1733.7	1722.2	1710.6	1703.5	1692.0	1684.9	1673.4	1664.5	1658.3
17.5°	1736.4	1726.6	1716.0	1701.8	1691.1	1682.2	1669.8	1660.9	1650.2	1638.7	1632.5
20°	1716.9	1705.3	1694.7	1680.4	1669.8	1659.1	1646.7	1636.9	1624.5	1613.8	1606.7
22.5°	1691.1	1677.8	1668.9	1654.7	1642.2	1630.7	1619.2	1607.6	1596.1	1587.2	1579.2
25°	1653.8	1639.6	1629.8	1618.3	1606.7	1597.9	1583.6	1576.5	1565.0	1557.0	1549.0
27.5°	1600.5	1589.9	1581.0	1569.4	1559.7	1552.6	1541.9	1534.8	1525.0	1517.9	1511.7
30°	1522.4	1513.5	1505.5	1493.9	1486.8	1480.6	1470.8	1464.6	1457.5	1449.5	1447.7
32.5°	1417.6	1410.4	1402.5	1394.4	1389.1	1385.6	1377.6	1374.0	1366.9	1362.5	1358.0
35°	1259.4	1253.2	1248.8	1245.3	1243.5	1244.3	1242.6	1246.1	1247.9	1247.0	1247.9
37.5°	1052.5	1048.9	1050.7	1053.4	1062.3	1073.8	1084.5	1100.4	1111.1	1121.8	1131.6
40°	821.6	824.2	831.3	847.3	870.4	896.2	920.2	950.4	980.6	1001.9	1021.4
42.5°	620.0	628.0	645.7	668.8	703.5	741.6	778.9	823.3	859.8	895.3	920.2
45°	466.3	476.9	500.0	532.0	570.2	614.6	661.7	711.4	755.0	791.4	818.9
47.5°	363.3	373.0	396.1	429.9	476.9	523.2	572.0	623.5	668.8	704.3	728.3
50°	286.9	299.3	319.7	355.3	402.4	451.2	501.8	552.4	595.1	625.3	646.6
52.5°	225.6	237.2	256.7	294.0	342.0	390.8	437.9	487.6	524.9	554.2	568.4
55°	175.0	185.6	206.0	237.2	282.5	330.4	377.5	420.1	454.7	476.1	489.4
57.5°	133.2	141.2	155.4	186.5	227.4	271.8	311.8	354.4	381.0	396.1	405.0
60°	101.3	107.5	122.6	146.6	183.9	222.1	255.8	287.8	309.1	321.5	330.4
62.5°	76.4	83.5	94.1	114.6	143.0	174.1	202.5	226.5	244.2	252.3	258.5
65°	52.4	57.7	65.7	81.7	105.7	127.9	150.1	167.9	179.4	188.3	191.9
67.5°	39.1	42.6	47.1	59.5	76.4	94.1	109.2	121.7	134.1	137.7	143.9
70°	29.3	32.0	36.4	45.3	55.1	67.5	80.0	87.0	95.9	102.1	103.9
72.5°	18.6	19.5	24.0	29.3	37.3	45.3	53.3	59.5	64.9	68.4	70.2
75°	10.7	16.0	16.0	21.3	26.7	30.2	35.5	40.0	42.6	45.3	45.3
77.5°	7.1	9.8	10.7	13.3	16.0	20.4	24.9	27.5	30.2	31.1	31.1
80°	6.2	7.1	7.1	9.8	11.6	15.1	17.8	18.6	20.4	21.3	23.1
82.5°	2.7	3.5	4.4	7.1	8.0	8.0	10.7	11.6	13.3	14.2	14.2
85°	0.9	1.8	1.8	2.7	4.4	5.3	6.2	7.1	8.0	8.0	8.9
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: P244582

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1803.0	1803.9	1800.4	1799.5	1797.7	1798.6	1800.4
5°	1770.2	1771.0	1767.5	1763.9	1763.9	1763.0	1763.9
7.5°	1739.0	1740.0	1734.6	1732.8	1729.3	1730.2	1730.2
10°	1708.0	1708.0	1700.0	1699.1	1696.4	1695.5	1695.5
12.5°	1677.8	1675.1	1668.9	1665.3	1667.1	1661.8	1661.8
15°	1651.1	1646.7	1638.7	1636.0	1631.6	1629.8	1629.8
17.5°	1623.6	1620.0	1613.0	1607.6	1602.3	1601.4	1602.3
20°	1596.9	1593.4	1584.5	1581.0	1576.5	1576.5	1574.8
22.5°	1570.3	1566.7	1558.8	1556.1	1549.9	1549.9	1550.8
25°	1542.8	1540.1	1531.2	1529.5	1528.6	1525.0	1526.8
27.5°	1505.5	1503.7	1496.6	1493.9	1490.4	1489.5	1491.3
30°	1437.1	1434.4	1429.1	1426.4	1420.2	1421.1	1422.9
32.5°	1351.8	1348.3	1341.1	1338.5	1333.2	1331.4	1332.3
35°	1245.3	1242.6	1236.4	1236.4	1231.0	1229.2	1231.0
37.5°	1136.9	1139.5	1136.9	1139.5	1136.9	1136.0	1136.9
40°	1034.7	1044.5	1046.3	1056.1	1052.5	1057.8	1056.9
42.5°	937.0	953.0	959.3	967.2	965.5	969.0	971.7
45°	838.4	851.8	858.0	863.3	864.2	866.0	866.9
47.5°	745.2	755.8	756.7	762.9	762.1	762.1	764.7
50°	658.2	665.3	667.0	671.5	667.9	666.1	667.0
52.5°	577.3	584.4	582.6	584.4	580.0	578.2	579.1
55°	494.7	498.3	498.3	498.3	493.0	493.0	493.0
57.5°	410.3	411.2	409.5	410.3	409.5	404.1	403.2
60°	333.1	333.1	332.2	333.1	330.4	327.7	327.7
62.5°	260.2	262.0	265.6	262.0	260.2	262.0	259.3
65°	194.5	198.1	197.2	199.0	198.1	198.1	196.3
67.5°	146.6	147.4	148.3	149.2	149.2	149.2	149.2
70°	107.5	110.2	109.2	109.2	109.2	109.2	114.6
72.5°	71.9	75.5	74.6	76.4	76.4	78.2	76.4
75°	48.8	52.4	50.6	53.3	52.4	50.6	55.1
77.5°	32.9	34.7	35.5	36.4	35.5	34.7	35.5
80°	23.1	24.9	24.0	24.9	24.9	24.9	25.8
82.5°	14.2	16.9	16.0	16.9	16.0	16.9	16.9
85°	9.8	10.7	8.9	10.7	9.8	9.8	11.6
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)