

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: P245020

Luminaire Tested: **LD8B40D010 ER8B409730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245020
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

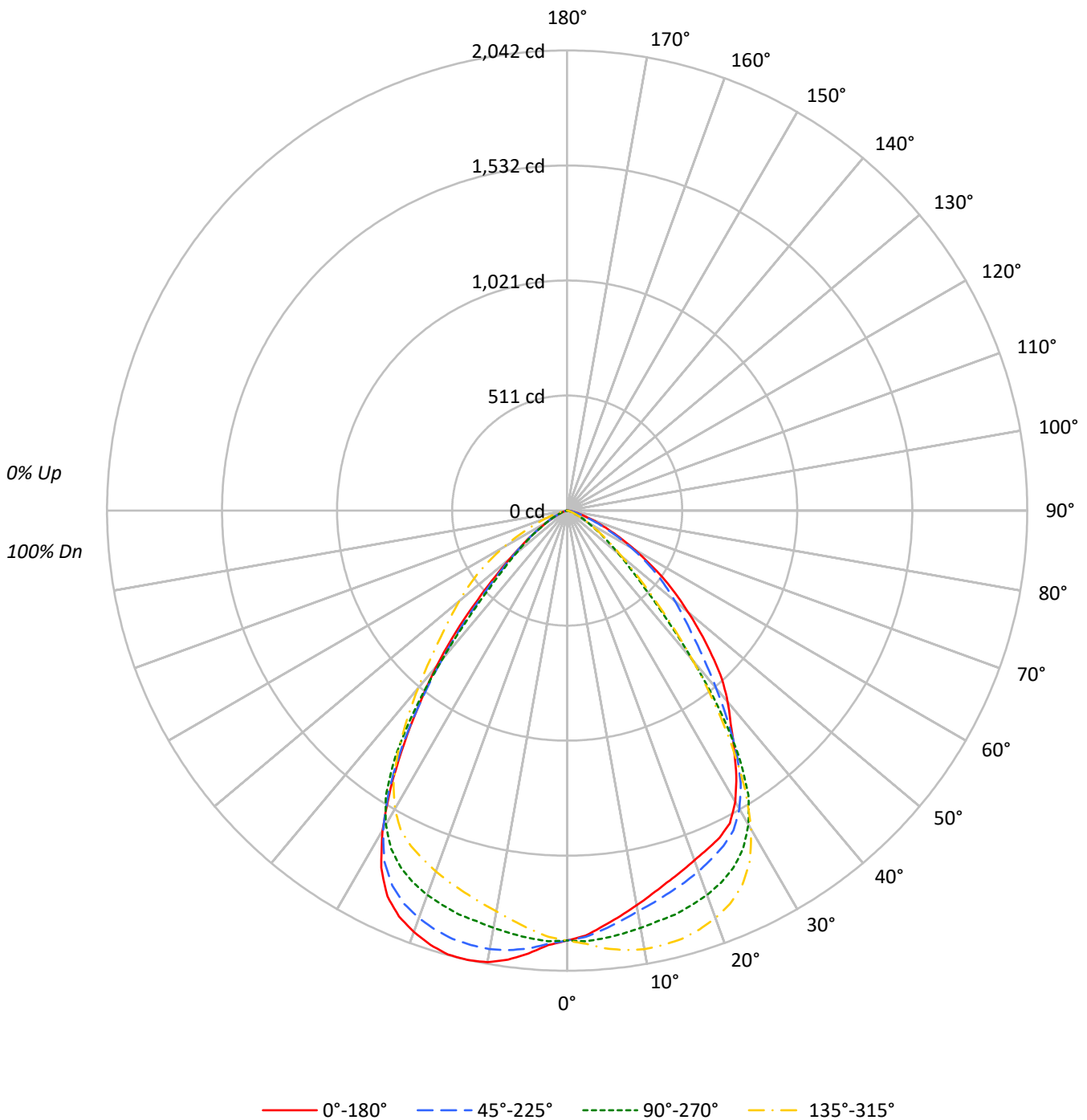
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	181.6	5.7
10°-20°	525.7	16.4
20°-30°	796.1	24.8
30°-40°	797.9	24.8
40°-50°	501.0	15.6
50°-60°	267.0	8.3
60°-70°	109.8	3.4
70°-80°	29.0	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°	1503.4	46.8
0°-40°	2301.3	71.6
0°-60°	3069.3	95.5
0°-90°	3213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1908	1908	1908	1908	1908	
5°	1850	1905	1973	1905	1850	174
15°	1709	1855	2040	1855	1709	483
25°	1601	1747	1888	1747	1601	734
35°	1291	1327	1259	1327	1291	809
45°	909	486	562	486	909	699
55°	517	180	190	180	517	461
65°	206	55	50	55	206	214
75°	58	11	9	11	58	65
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°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1887.9	1886.0	1885.1	1887.0	1887.9	1891.6	1890.7	1892.5	1892.5	1893.5	1895.3
5°	1849.7	1848.8	1849.7	1849.7	1853.4	1857.2	1856.2	1859.0	1860.9	1865.6	1867.4
7.5°	1814.3	1814.3	1813.4	1817.1	1819.0	1824.6	1823.6	1828.3	1831.1	1835.7	1842.2
10°	1778.0	1778.0	1778.9	1781.7	1782.7	1791.0	1791.0	1797.5	1801.3	1805.9	1814.3
12.5°	1742.6	1742.6	1748.2	1746.3	1750.0	1756.6	1759.4	1765.9	1771.5	1780.8	1789.2
15°	1709.1	1709.1	1710.9	1715.6	1718.4	1726.8	1731.4	1738.9	1745.4	1754.7	1766.8
17.5°	1680.2	1679.3	1680.2	1685.8	1691.4	1698.8	1702.5	1711.9	1718.4	1730.5	1741.7
20°	1651.3	1653.2	1653.2	1657.8	1661.6	1670.9	1674.6	1684.9	1692.3	1703.5	1716.5
22.5°	1626.2	1625.3	1625.3	1631.8	1634.6	1642.9	1646.7	1656.0	1664.4	1673.7	1685.8
25°	1601.0	1599.2	1602.9	1603.8	1605.7	1615.0	1617.8	1624.3	1632.7	1641.1	1653.2
27.5°	1563.8	1561.9	1562.9	1566.6	1569.4	1576.8	1578.7	1585.2	1591.7	1599.2	1609.4
30°	1492.0	1490.2	1489.3	1495.8	1498.6	1504.2	1507.0	1518.2	1520.0	1528.4	1535.8
32.5°	1397.0	1396.1	1398.0	1403.6	1406.4	1413.8	1417.6	1424.1	1428.7	1433.4	1440.8
35°	1290.9	1289.0	1290.9	1296.5	1296.5	1303.0	1305.8	1308.6	1307.6	1308.6	1306.7
37.5°	1192.2	1191.2	1192.2	1194.9	1192.2	1194.9	1192.2	1186.6	1176.3	1165.2	1154.0
40°	1108.3	1109.3	1103.7	1107.4	1097.1	1095.3	1085.1	1071.1	1050.6	1028.3	996.6
42.5°	1018.9	1016.1	1012.4	1014.3	1005.9	999.3	982.6	964.9	938.8	901.6	863.4
45°	909.0	908.1	906.2	905.3	899.7	893.2	879.2	858.7	829.9	791.7	746.0
47.5°	801.9	799.1	799.1	800.0	793.5	792.6	781.4	763.7	738.6	701.3	653.8
50°	699.4	698.5	700.4	704.1	699.4	697.6	690.2	678.1	655.7	624.0	579.3
52.5°	607.2	606.3	608.2	612.8	611.0	612.8	605.4	596.1	581.2	550.4	511.3
55°	516.9	516.9	516.9	522.5	522.5	522.5	518.8	513.2	499.2	476.9	440.6
57.5°	422.8	423.8	429.4	430.3	429.4	431.2	430.3	424.7	415.4	399.6	371.6
60°	343.7	343.7	346.5	349.3	348.3	349.3	349.3	346.5	337.2	324.1	301.8
62.5°	272.0	274.8	272.9	274.8	278.5	274.8	272.9	271.0	264.5	256.1	237.5
65°	205.8	207.7	207.7	208.6	206.7	207.7	204.0	201.2	197.5	188.2	176.0
67.5°	156.5	156.5	156.5	156.5	155.5	154.6	153.7	150.9	144.4	140.7	127.6
70°	120.1	114.5	114.5	114.5	114.5	115.5	112.7	109.0	107.1	100.6	91.3
72.5°	80.1	82.0	80.1	80.1	78.2	79.2	75.4	73.6	71.7	68.0	62.4
75°	57.7	53.1	54.9	55.9	53.1	54.9	51.2	47.5	47.5	44.7	41.9
77.5°	37.3	36.3	37.3	38.2	37.3	36.3	34.5	32.6	32.6	31.7	28.9
80°	27.0	26.1	26.1	26.1	25.1	26.1	24.2	24.2	22.4	21.4	19.6
82.5°	17.7	17.7	16.8	17.7	16.8	17.7	14.9	14.9	14.9	14.0	12.1
85°	12.1	10.2	10.2	11.2	9.3	11.2	10.2	9.3	8.4	8.4	7.4
87.5°	5.6	6.5	5.6	6.5	5.6	5.6	6.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1898.1	1899.1	1899.1	1902.8	1904.7	1905.6	1905.6	1913.1	1910.3	1912.1	1914.0
5°	1871.2	1876.7	1878.6	1878.6	1888.8	1892.5	1896.3	1904.7	1905.6	1911.2	1917.7
7.5°	1845.0	1851.6	1855.3	1863.7	1870.2	1876.7	1887.9	1893.5	1899.1	1906.5	1914.9
10°	1819.9	1827.4	1834.8	1841.3	1851.6	1860.0	1867.4	1880.4	1887.0	1897.2	1908.4
12.5°	1795.7	1805.9	1812.5	1823.6	1834.8	1842.2	1853.4	1865.6	1875.8	1886.0	1899.1
15°	1774.3	1786.4	1793.8	1805.9	1818.1	1828.3	1840.4	1855.3	1862.8	1874.9	1887.0
17.5°	1751.0	1764.0	1773.4	1784.5	1799.4	1810.6	1820.9	1835.7	1845.0	1858.1	1872.1
20°	1726.8	1739.8	1751.0	1762.2	1777.1	1788.2	1800.3	1815.3	1825.5	1838.5	1849.7
22.5°	1697.9	1710.0	1722.1	1735.1	1750.0	1759.4	1773.4	1786.4	1797.5	1809.7	1820.9
25°	1660.6	1675.6	1684.9	1697.0	1709.1	1719.3	1734.2	1747.2	1756.6	1767.8	1778.0
27.5°	1616.9	1628.1	1635.5	1645.7	1657.8	1667.2	1678.3	1691.4	1700.7	1710.9	1718.4
30°	1542.3	1552.6	1559.1	1566.6	1578.7	1587.1	1596.4	1608.5	1615.0	1622.5	1629.0
32.5°	1444.5	1452.9	1456.7	1462.3	1470.7	1479.0	1486.5	1496.7	1499.5	1504.2	1504.2
35°	1303.0	1304.8	1303.9	1305.8	1309.5	1314.2	1320.7	1327.2	1330.9	1330.9	1328.2
37.5°	1137.2	1126.0	1113.9	1104.6	1101.8	1099.9	1103.7	1106.5	1110.2	1112.1	1107.4
40°	964.9	939.8	912.7	888.5	871.8	864.3	861.5	863.4	863.4	869.9	869.9
42.5°	816.8	777.7	737.7	701.3	677.1	658.5	650.1	650.1	651.0	655.7	658.5
45°	693.9	644.5	597.9	557.9	524.4	500.1	489.0	486.2	485.3	487.1	493.6
47.5°	599.8	548.6	500.1	450.8	415.4	391.2	380.9	377.2	373.5	377.2	378.1
50°	526.2	473.1	421.9	372.6	335.3	313.9	300.8	295.2	294.3	294.3	296.2
52.5°	459.2	409.8	358.6	308.3	269.2	248.7	236.6	233.8	230.1	233.8	233.8
55°	395.8	346.5	296.2	248.7	216.1	194.7	183.5	179.8	177.9	180.7	180.7
57.5°	326.9	285.0	238.5	195.6	163.0	148.1	139.7	135.1	134.1	136.0	134.1
60°	268.2	232.9	192.8	153.7	128.5	112.7	106.2	104.3	102.4	104.3	104.3
62.5°	212.3	182.6	149.9	120.1	98.7	87.6	80.1	80.1	79.2	79.2	80.1
65°	157.4	134.1	110.8	85.7	68.9	60.5	54.9	54.9	54.0	54.9	54.0
67.5°	114.5	98.7	80.1	62.4	49.4	44.7	41.0	38.2	40.1	38.2	37.3
70°	83.8	70.8	57.7	47.5	38.2	33.5	30.7	29.8	27.9	27.9	27.9
72.5°	55.9	47.5	39.1	30.7	25.1	20.5	19.6	17.7	15.8	16.8	18.6
75°	37.3	31.7	27.9	22.4	16.8	16.8	11.2	11.2	9.3	11.2	8.4
77.5°	26.1	21.4	16.8	14.0	11.2	10.2	7.4	7.4	6.5	6.5	6.5
80°	18.6	15.8	12.1	10.2	7.4	7.4	6.5	5.6	4.6	4.6	5.6
82.5°	11.2	8.4	8.4	7.4	4.6	3.7	2.8	3.7	1.9	1.9	1.9
85°	6.5	5.6	4.6	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1918.7	1917.7	1919.6	1919.6	1925.2	1924.2	1927.0	1927.0	1925.2	1926.1	1929.8
5°	1925.2	1928.0	1933.5	1938.2	1946.6	1950.3	1955.0	1959.6	1960.6	1963.4	1966.1
7.5°	1925.2	1934.5	1941.0	1949.4	1960.6	1967.1	1977.3	1985.7	1989.4	1994.1	1999.7
10°	1921.4	1930.7	1942.8	1952.2	1966.1	1976.4	1986.6	1999.7	2005.3	2012.7	2020.2
12.5°	1914.0	1924.2	1937.2	1949.4	1965.2	1974.5	1987.5	1999.7	2008.1	2018.3	2026.7
15°	1902.8	1914.9	1927.0	1939.1	1955.9	1967.1	1979.2	1993.1	2001.5	2012.7	2020.2
17.5°	1885.1	1898.1	1909.3	1920.5	1936.3	1949.4	1960.6	1973.6	1982.0	1991.3	2001.5
20°	1863.7	1875.8	1887.9	1897.2	1913.1	1924.2	1936.3	1948.4	1955.0	1956.8	1972.7
22.5°	1836.7	1845.0	1854.4	1869.3	1878.6	1888.8	1900.0	1911.2	1917.7	1928.0	1933.5
25°	1791.9	1800.3	1810.6	1817.1	1828.3	1836.7	1847.8	1860.0	1863.7	1871.2	1876.7
27.5°	1729.6	1734.2	1738.9	1744.5	1751.0	1755.6	1762.2	1767.8	1771.5	1775.2	1778.9
30°	1630.8	1630.8	1630.8	1627.1	1629.9	1632.7	1633.6	1632.7	1632.7	1631.8	1631.8
32.5°	1500.4	1493.0	1484.6	1477.2	1474.4	1470.7	1468.8	1466.0	1461.3	1458.5	1459.5
35°	1324.4	1307.6	1297.4	1288.1	1280.7	1275.1	1272.3	1269.5	1268.5	1264.8	1261.1
37.5°	1104.6	1092.5	1085.1	1079.5	1073.0	1067.4	1068.3	1069.2	1072.0	1070.2	1071.1
40°	871.8	869.0	871.8	865.2	863.4	865.2	869.9	876.4	880.2	883.9	890.4
42.5°	663.1	667.8	674.3	674.3	677.1	680.9	686.4	696.7	702.2	708.8	716.2
45°	499.2	504.8	513.2	516.0	517.8	522.5	529.0	537.4	541.1	546.7	553.2
47.5°	384.7	388.4	393.0	397.7	402.3	404.2	410.7	410.7	415.4	419.1	421.0
50°	299.9	303.6	307.3	310.1	312.0	314.8	316.7	319.5	320.4	322.3	323.2
52.5°	234.7	239.4	239.4	241.2	244.0	246.8	245.9	246.8	247.7	247.7	250.5
55°	183.5	183.5	186.3	186.3	188.2	187.2	188.2	188.2	188.2	188.2	189.1
57.5°	136.9	137.9	140.7	138.8	137.9	139.7	137.9	139.7	138.8	140.7	137.9
60°	105.2	105.2	106.2	106.2	107.1	107.1	107.1	106.2	106.2	105.2	105.2
62.5°	79.2	80.1	81.0	80.1	80.1	80.1	79.2	79.2	78.2	77.3	77.3
65°	53.1	52.2	54.0	52.2	53.1	53.1	52.2	53.1	50.3	51.2	50.3
67.5°	38.2	37.3	36.3	37.3	36.3	35.4	35.4	36.3	37.3	34.5	34.5
70°	25.1	26.1	25.1	26.1	27.0	27.0	26.1	25.1	26.1	24.2	25.1
72.5°	15.8	15.8	15.8	15.8	15.8	16.8	16.8	16.8	14.9	14.9	14.0
75°	7.4	10.2	8.4	7.4	10.2	10.2	9.3	9.3	8.4	8.4	8.4
77.5°	7.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	5.6	4.6
80°	3.7	3.7	3.7	2.8	3.7	3.7	4.6	3.7	3.7	2.8	4.6
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: P245020

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1928.9	1928.0	1928.9	1929.8	1928.9	1928.0	1928.9	1929.8	1926.1	1925.2	1927.0
5°	1969.9	1969.9	1971.7	1972.7	1971.7	1969.9	1969.9	1966.1	1963.4	1960.6	1959.6
7.5°	2005.3	2007.1	2009.0	2009.9	2009.0	2007.1	2005.3	1999.7	1994.1	1989.4	1985.7
10°	2026.7	2029.5	2033.2	2035.0	2033.2	2029.5	2026.7	2020.2	2012.7	2005.3	1999.7
12.5°	2036.0	2038.8	2043.4	2042.5	2043.4	2038.8	2036.0	2026.7	2018.3	2008.1	1999.7
15°	2029.5	2033.2	2037.8	2039.7	2037.8	2033.2	2029.5	2020.2	2012.7	2001.5	1993.1
17.5°	2009.0	2014.6	2017.4	2020.2	2017.4	2014.6	2009.0	2001.5	1991.3	1982.0	1973.6
20°	1981.0	1984.8	1988.5	1989.4	1988.5	1984.8	1981.0	1972.7	1956.8	1955.0	1948.4
22.5°	1941.0	1943.8	1952.2	1949.4	1952.2	1943.8	1941.0	1933.5	1928.0	1917.7	1911.2
25°	1883.2	1886.0	1887.0	1887.9	1887.0	1886.0	1883.2	1876.7	1871.2	1863.7	1860.0
27.5°	1783.6	1783.6	1785.4	1786.4	1785.4	1783.6	1783.6	1778.9	1775.2	1771.5	1767.8
30°	1632.7	1632.7	1632.7	1637.4	1632.7	1632.7	1632.7	1631.8	1631.8	1632.7	1632.7
32.5°	1458.5	1456.7	1454.8	1456.7	1454.8	1456.7	1458.5	1459.5	1458.5	1461.3	1466.0
35°	1261.1	1260.1	1262.9	1259.2	1262.9	1260.1	1261.1	1261.1	1264.8	1268.5	1269.5
37.5°	1072.0	1070.2	1073.9	1070.2	1073.9	1070.2	1072.0	1071.1	1070.2	1072.0	1069.2
40°	892.3	894.1	894.1	901.6	894.1	894.1	892.3	890.4	883.9	880.2	876.4
42.5°	720.0	725.6	723.7	729.3	723.7	725.6	720.0	716.2	708.8	702.2	696.7
45°	556.9	560.7	560.7	562.5	560.7	560.7	556.9	553.2	546.7	541.1	537.4
47.5°	427.5	427.5	427.5	428.4	427.5	427.5	427.5	421.0	419.1	415.4	410.7
50°	325.1	326.0	326.9	327.9	326.9	326.0	325.1	323.2	322.3	320.4	319.5
52.5°	249.6	250.5	248.7	250.5	248.7	250.5	249.6	250.5	247.7	247.7	246.8
55°	189.1	188.2	189.1	190.0	189.1	188.2	189.1	189.1	188.2	188.2	188.2
57.5°	138.8	136.9	136.9	136.9	136.9	136.9	138.8	137.9	140.7	138.8	139.7
60°	103.4	104.3	104.3	105.2	104.3	104.3	103.4	105.2	105.2	106.2	106.2
62.5°	76.4	79.2	77.3	79.2	77.3	79.2	76.4	77.3	77.3	78.2	79.2
65°	49.4	49.4	49.4	50.3	49.4	49.4	49.4	50.3	51.2	50.3	53.1
67.5°	33.5	34.5	36.3	35.4	36.3	34.5	33.5	34.5	34.5	37.3	36.3
70°	27.0	24.2	24.2	27.0	24.2	24.2	27.0	25.1	24.2	26.1	25.1
72.5°	15.8	14.0	15.8	15.8	15.8	14.0	15.8	14.0	14.9	14.9	16.8
75°	8.4	7.4	6.5	9.3	6.5	7.4	8.4	8.4	8.4	8.4	9.3
77.5°	5.6	4.6	6.5	6.5	6.5	4.6	5.6	4.6	5.6	4.6	5.6
80°	2.8	3.7	2.8	4.6	2.8	3.7	2.8	4.6	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: P245020

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1927.0	1924.2	1925.2	1919.6	1919.6	1917.7	1918.7	1914.0	1912.1	1910.3	1913.1
5°	1955.0	1950.3	1946.6	1938.2	1933.5	1928.0	1925.2	1917.7	1911.2	1905.6	1904.7
7.5°	1977.3	1967.1	1960.6	1949.4	1941.0	1934.5	1925.2	1914.9	1906.5	1899.1	1893.5
10°	1986.6	1976.4	1966.1	1952.2	1942.8	1930.7	1921.4	1908.4	1897.2	1887.0	1880.4
12.5°	1987.5	1974.5	1965.2	1949.4	1937.2	1924.2	1914.0	1899.1	1886.0	1875.8	1865.6
15°	1979.2	1967.1	1955.9	1939.1	1927.0	1914.9	1902.8	1887.0	1874.9	1862.8	1855.3
17.5°	1960.6	1949.4	1936.3	1920.5	1909.3	1898.1	1885.1	1872.1	1858.1	1845.0	1835.7
20°	1936.3	1924.2	1913.1	1897.2	1887.9	1875.8	1863.7	1849.7	1838.5	1825.5	1815.3
22.5°	1900.0	1888.8	1878.6	1869.3	1854.4	1845.0	1836.7	1820.9	1809.7	1797.5	1786.4
25°	1847.8	1836.7	1828.3	1817.1	1810.6	1800.3	1791.9	1778.0	1767.8	1756.6	1747.2
27.5°	1762.2	1755.6	1751.0	1744.5	1738.9	1734.2	1729.6	1718.4	1710.9	1700.7	1691.4
30°	1633.6	1632.7	1629.9	1627.1	1630.8	1630.8	1630.8	1629.0	1622.5	1615.0	1608.5
32.5°	1468.8	1470.7	1474.4	1477.2	1484.6	1493.0	1500.4	1504.2	1504.2	1499.5	1496.7
35°	1272.3	1275.1	1280.7	1288.1	1297.4	1307.6	1324.4	1328.2	1330.9	1330.9	1327.2
37.5°	1068.3	1067.4	1073.0	1079.5	1085.1	1092.5	1104.6	1107.4	1112.1	1110.2	1106.5
40°	869.9	865.2	863.4	865.2	871.8	869.0	871.8	869.9	869.9	863.4	863.4
42.5°	686.4	680.9	677.1	674.3	674.3	667.8	663.1	658.5	655.7	651.0	650.1
45°	529.0	522.5	517.8	516.0	513.2	504.8	499.2	493.6	487.1	485.3	486.2
47.5°	410.7	404.2	402.3	397.7	393.0	388.4	384.7	378.1	377.2	373.5	377.2
50°	316.7	314.8	312.0	310.1	307.3	303.6	299.9	296.2	294.3	294.3	295.2
52.5°	245.9	246.8	244.0	241.2	239.4	239.4	234.7	233.8	233.8	230.1	233.8
55°	188.2	187.2	188.2	186.3	186.3	183.5	183.5	180.7	180.7	177.9	179.8
57.5°	137.9	139.7	137.9	138.8	140.7	137.9	136.9	134.1	136.0	134.1	135.1
60°	107.1	107.1	107.1	106.2	106.2	105.2	105.2	104.3	104.3	102.4	104.3
62.5°	79.2	80.1	80.1	80.1	81.0	80.1	79.2	80.1	79.2	79.2	80.1
65°	52.2	53.1	53.1	52.2	54.0	52.2	53.1	54.0	54.9	54.0	54.9
67.5°	35.4	35.4	36.3	37.3	36.3	37.3	38.2	37.3	38.2	40.1	38.2
70°	26.1	27.0	27.0	26.1	25.1	26.1	25.1	27.9	27.9	27.9	29.8
72.5°	16.8	16.8	15.8	15.8	15.8	15.8	15.8	18.6	16.8	15.8	17.7
75°	9.3	10.2	10.2	7.4	8.4	10.2	7.4	8.4	11.2	9.3	11.2
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	7.4	6.5	6.5	6.5	7.4
80°	4.6	3.7	3.7	2.8	3.7	3.7	3.7	5.6	4.6	4.6	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: P245020

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1905.6	1905.6	1904.7	1902.8	1899.1	1899.1	1898.1	1895.3	1893.5	1892.5	1892.5
5°	1896.3	1892.5	1888.8	1878.6	1878.6	1876.7	1871.2	1867.4	1865.6	1860.9	1859.0
7.5°	1887.9	1876.7	1870.2	1863.7	1855.3	1851.6	1845.0	1842.2	1835.7	1831.1	1828.3
10°	1867.4	1860.0	1851.6	1841.3	1834.8	1827.4	1819.9	1814.3	1805.9	1801.3	1797.5
12.5°	1853.4	1842.2	1834.8	1823.6	1812.5	1805.9	1795.7	1789.2	1780.8	1771.5	1765.9
15°	1840.4	1828.3	1818.1	1805.9	1793.8	1786.4	1774.3	1766.8	1754.7	1745.4	1738.9
17.5°	1820.9	1810.6	1799.4	1784.5	1773.4	1764.0	1751.0	1741.7	1730.5	1718.4	1711.9
20°	1800.3	1788.2	1777.1	1762.2	1751.0	1739.8	1726.8	1716.5	1703.5	1692.3	1684.9
22.5°	1773.4	1759.4	1750.0	1735.1	1722.1	1710.0	1697.9	1685.8	1673.7	1664.4	1656.0
25°	1734.2	1719.3	1709.1	1697.0	1684.9	1675.6	1660.6	1653.2	1641.1	1632.7	1624.3
27.5°	1678.3	1667.2	1657.8	1645.7	1635.5	1628.1	1616.9	1609.4	1599.2	1591.7	1585.2
30°	1596.4	1587.1	1578.7	1566.6	1559.1	1552.6	1542.3	1535.8	1528.4	1520.0	1518.2
32.5°	1486.5	1479.0	1470.7	1462.3	1456.7	1452.9	1444.5	1440.8	1433.4	1428.7	1424.1
35°	1320.7	1314.2	1309.5	1305.8	1303.9	1304.8	1303.0	1306.7	1308.6	1307.6	1308.6
37.5°	1103.7	1099.9	1101.8	1104.6	1113.9	1126.0	1137.2	1154.0	1165.2	1176.3	1186.6
40°	861.5	864.3	871.8	888.5	912.7	939.8	964.9	996.6	1028.3	1050.6	1071.1
42.5°	650.1	658.5	677.1	701.3	737.7	777.7	816.8	863.4	901.6	938.8	964.9
45°	489.0	500.1	524.4	557.9	597.9	644.5	693.9	746.0	791.7	829.9	858.7
47.5°	380.9	391.2	415.4	450.8	500.1	548.6	599.8	653.8	701.3	738.6	763.7
50°	300.8	313.9	335.3	372.6	421.9	473.1	526.2	579.3	624.0	655.7	678.1
52.5°	236.6	248.7	269.2	308.3	358.6	409.8	459.2	511.3	550.4	581.2	596.1
55°	183.5	194.7	216.1	248.7	296.2	346.5	395.8	440.6	476.9	499.2	513.2
57.5°	139.7	148.1	163.0	195.6	238.5	285.0	326.9	371.6	399.6	415.4	424.7
60°	106.2	112.7	128.5	153.7	192.8	232.9	268.2	301.8	324.1	337.2	346.5
62.5°	80.1	87.6	98.7	120.1	149.9	182.6	212.3	237.5	256.1	264.5	271.0
65°	54.9	60.5	68.9	85.7	110.8	134.1	157.4	176.0	188.2	197.5	201.2
67.5°	41.0	44.7	49.4	62.4	80.1	98.7	114.5	127.6	140.7	144.4	150.9
70°	30.7	33.5	38.2	47.5	57.7	70.8	83.8	91.3	100.6	107.1	109.0
72.5°	19.6	20.5	25.1	30.7	39.1	47.5	55.9	62.4	68.0	71.7	73.6
75°	11.2	16.8	16.8	22.4	27.9	31.7	37.3	41.9	44.7	47.5	47.5
77.5°	7.4	10.2	11.2	14.0	16.8	21.4	26.1	28.9	31.7	32.6	32.6
80°	6.5	7.4	7.4	10.2	12.1	15.8	18.6	19.6	21.4	22.4	24.2
82.5°	2.8	3.7	4.6	7.4	8.4	8.4	11.2	12.1	14.0	14.9	14.9
85°	0.9	1.9	1.9	2.8	4.6	5.6	6.5	7.4	8.4	8.4	9.3
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: P245020

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5	1907.5
2.5°	1890.7	1891.6	1887.9	1887.0	1885.1	1886.0	1887.9
5°	1856.2	1857.2	1853.4	1849.7	1849.7	1848.8	1849.7
7.5°	1823.6	1824.6	1819.0	1817.1	1813.4	1814.3	1814.3
10°	1791.0	1791.0	1782.7	1781.7	1778.9	1778.0	1778.0
12.5°	1759.4	1756.6	1750.0	1746.3	1748.2	1742.6	1742.6
15°	1731.4	1726.8	1718.4	1715.6	1710.9	1709.1	1709.1
17.5°	1702.5	1698.8	1691.4	1685.8	1680.2	1679.3	1680.2
20°	1674.6	1670.9	1661.6	1657.8	1653.2	1653.2	1651.3
22.5°	1646.7	1642.9	1634.6	1631.8	1625.3	1625.3	1626.2
25°	1617.8	1615.0	1605.7	1603.8	1602.9	1599.2	1601.0
27.5°	1578.7	1576.8	1569.4	1566.6	1562.9	1561.9	1563.8
30°	1507.0	1504.2	1498.6	1495.8	1489.3	1490.2	1492.0
32.5°	1417.6	1413.8	1406.4	1403.6	1398.0	1396.1	1397.0
35°	1305.8	1303.0	1296.5	1296.5	1290.9	1289.0	1290.9
37.5°	1192.2	1194.9	1192.2	1194.9	1192.2	1191.2	1192.2
40°	1085.1	1095.3	1097.1	1107.4	1103.7	1109.3	1108.3
42.5°	982.6	999.3	1005.9	1014.3	1012.4	1016.1	1018.9
45°	879.2	893.2	899.7	905.3	906.2	908.1	909.0
47.5°	781.4	792.6	793.5	800.0	799.1	799.1	801.9
50°	690.2	697.6	699.4	704.1	700.4	698.5	699.4
52.5°	605.4	612.8	611.0	612.8	608.2	606.3	607.2
55°	518.8	522.5	522.5	522.5	516.9	516.9	516.9
57.5°	430.3	431.2	429.4	430.3	429.4	423.8	422.8
60°	349.3	349.3	348.3	349.3	346.5	343.7	343.7
62.5°	272.9	274.8	278.5	274.8	272.9	274.8	272.0
65°	204.0	207.7	206.7	208.6	207.7	207.7	205.8
67.5°	153.7	154.6	155.5	156.5	156.5	156.5	156.5
70°	112.7	115.5	114.5	114.5	114.5	114.5	120.1
72.5°	75.4	79.2	78.2	80.1	80.1	82.0	80.1
75°	51.2	54.9	53.1	55.9	54.9	53.1	57.7
77.5°	34.5	36.3	37.3	38.2	37.3	36.3	37.3
80°	24.2	26.1	25.1	26.1	26.1	26.1	27.0
82.5°	14.9	17.7	16.8	17.7	16.8	17.7	17.7
85°	10.2	11.2	9.3	11.2	10.2	10.2	12.1
87.5°	6.5	5.6	5.6	6.5	5.6	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)