

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: P245878

Luminaire Tested: **LD8B40D010 ER8B40927 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245878
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 ER8B40927 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3190.5 lumens
Efficiency: N/A
Efficacy: 78.0 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

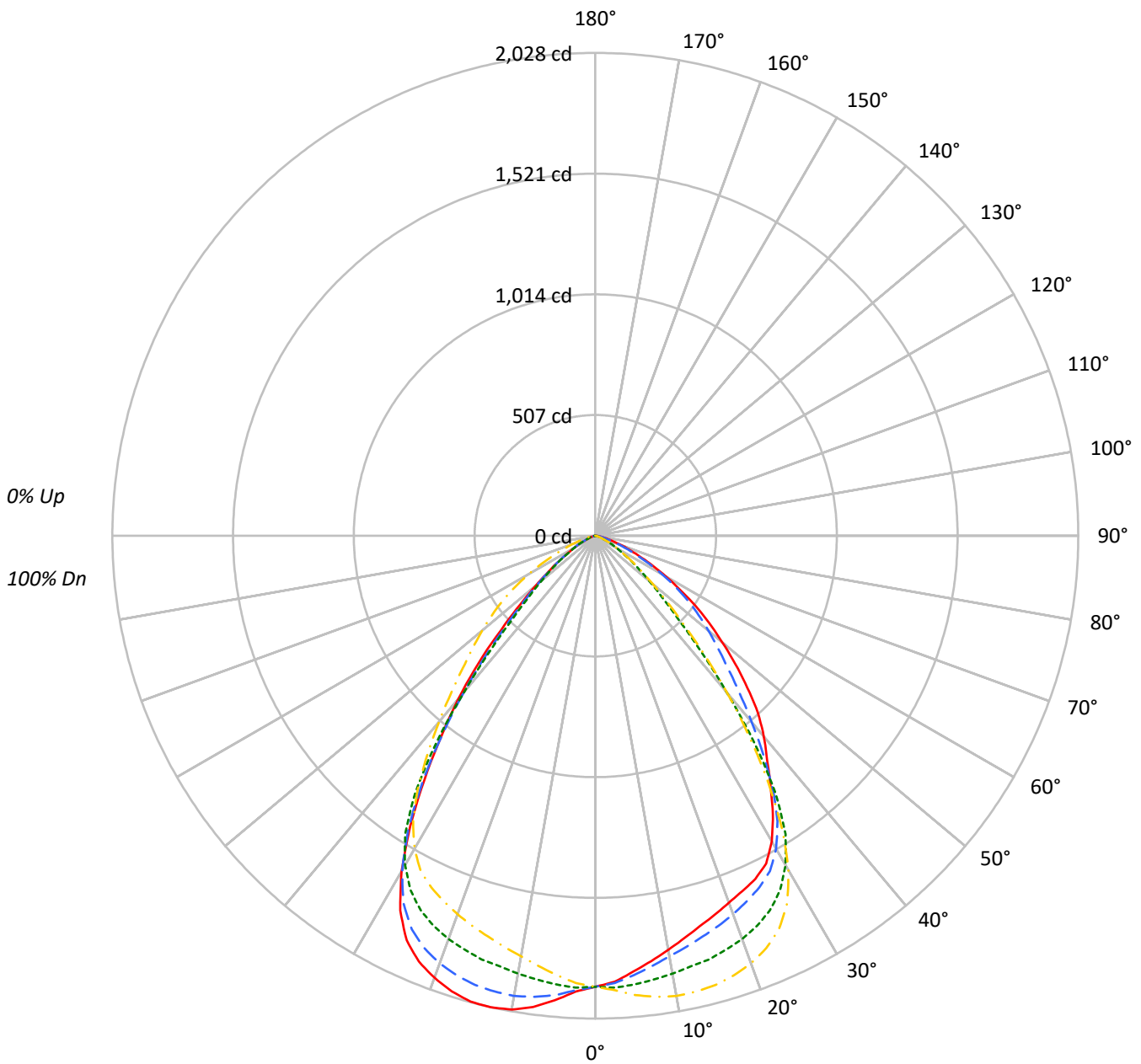
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	180.3	5.7
10°-20°	522.1	16.4
20°-30°	790.5	24.8
30°-40°	792.3	24.8
40°-50°	497.5	15.6
50°-60°	265.1	8.3
60°-70°	109.0	3.4
70°-80°	28.8	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°	1492.9	46.8
0°-40°	2285.2	71.6
0°-60°	3047.8	95.5
0°-90°	3190.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1894	1894	1894	1894	1894	
5°	1837	1891	1959	1891	1837	173
15°	1697	1842	2025	1842	1697	480
25°	1590	1735	1875	1735	1590	729
35°	1282	1318	1250	1318	1282	803
45°	903	483	559	483	903	694
55°	513	178	189	178	513	458
65°	204	55	50	55	204	212
75°	57	11	9	11	57	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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1874.7	1872.8	1871.9	1873.8	1874.7	1878.4	1877.5	1879.3	1879.3	1880.2	1882.1
5°	1836.8	1835.8	1836.8	1836.8	1840.5	1844.1	1843.2	1846.0	1847.8	1852.5	1854.3
7.5°	1801.7	1801.7	1800.7	1804.4	1806.2	1811.8	1810.8	1815.5	1818.2	1822.8	1829.4
10°	1765.6	1765.6	1766.5	1769.3	1770.2	1778.5	1778.5	1784.9	1788.6	1793.2	1801.7
12.5°	1730.4	1730.4	1736.0	1734.1	1737.8	1744.3	1747.0	1753.5	1759.0	1768.3	1776.7
15°	1697.1	1697.1	1699.0	1703.6	1706.4	1714.7	1719.3	1726.8	1733.2	1742.4	1754.4
17.5°	1668.5	1667.5	1668.5	1674.0	1679.5	1686.9	1690.6	1699.9	1706.4	1718.3	1729.5
20°	1639.8	1641.6	1641.6	1646.2	1649.9	1659.2	1662.9	1673.1	1680.4	1691.6	1704.5
22.5°	1614.8	1613.9	1613.9	1620.3	1623.1	1631.5	1635.1	1644.4	1652.7	1662.0	1674.0
25°	1589.9	1587.9	1591.6	1592.6	1594.5	1603.7	1606.5	1612.9	1621.2	1629.6	1641.6
27.5°	1552.8	1551.0	1551.9	1555.6	1558.4	1565.8	1567.6	1574.1	1580.6	1587.9	1598.2
30°	1481.6	1479.8	1478.8	1485.3	1488.1	1493.7	1496.4	1507.5	1509.3	1517.7	1525.0
32.5°	1387.2	1386.3	1388.2	1393.8	1396.5	1403.9	1407.6	1414.1	1418.7	1423.4	1430.8
35°	1281.8	1280.0	1281.8	1287.4	1287.4	1293.9	1296.7	1299.4	1298.5	1299.4	1297.6
37.5°	1183.8	1182.8	1183.8	1186.5	1183.8	1186.5	1183.8	1178.3	1168.1	1157.0	1145.9
40°	1100.6	1101.5	1096.0	1099.7	1089.4	1087.6	1077.5	1063.6	1043.2	1021.0	989.7
42.5°	1011.8	1009.0	1005.3	1007.2	998.9	992.4	975.7	958.2	932.3	895.3	857.4
45°	902.7	901.8	899.9	899.0	893.4	887.0	873.0	852.8	824.1	786.2	740.8
47.5°	796.3	793.6	793.6	794.5	787.9	787.1	775.9	758.4	733.4	696.4	649.2
50°	694.6	693.7	695.5	699.2	694.6	692.8	685.4	673.3	651.2	619.6	575.2
52.5°	603.0	602.1	603.9	608.5	606.7	608.5	601.2	591.9	577.1	546.5	507.7
55°	513.3	513.3	513.3	518.8	518.8	518.8	515.1	509.6	495.7	473.5	437.5
57.5°	419.8	420.8	426.4	427.3	426.4	428.2	427.3	421.8	412.5	396.8	369.0
60°	341.3	341.3	344.0	346.8	345.9	346.8	346.8	344.0	334.8	321.9	299.7
62.5°	270.0	272.8	271.0	272.8	276.5	272.8	271.0	269.1	262.7	254.4	235.8
65°	204.4	206.2	206.2	207.1	205.3	206.2	202.6	199.8	196.1	186.9	174.8
67.5°	155.4	155.4	155.4	155.4	154.5	153.6	152.7	149.8	143.3	139.7	126.7
70°	119.2	113.7	113.7	113.7	113.7	114.8	111.9	108.2	106.3	99.9	90.7
72.5°	79.5	81.3	79.5	79.5	77.7	78.6	74.9	73.0	71.2	67.5	62.0
75°	57.4	52.8	54.6	55.5	52.8	54.6	50.8	47.1	47.1	44.4	41.6
77.5°	37.0	36.1	37.0	37.9	37.0	36.1	34.2	32.4	32.4	31.5	28.7
80°	26.9	25.9	25.9	25.9	25.0	25.9	24.1	24.1	22.2	21.3	19.5
82.5°	17.6	17.6	16.7	17.6	16.7	17.6	14.8	14.8	14.8	13.8	12.0
85°	12.0	10.1	10.1	11.1	9.2	11.1	10.1	9.2	8.3	8.3	7.4
87.5°	5.5	6.5	5.5	6.5	5.5	5.5	6.5	5.5	5.5	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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1884.8	1885.7	1885.7	1889.4	1891.4	1892.2	1892.2	1899.7	1896.9	1898.8	1900.6
5°	1858.0	1863.6	1865.5	1865.5	1875.6	1879.3	1883.0	1891.4	1892.2	1897.8	1904.3
7.5°	1832.2	1838.6	1842.3	1850.6	1857.2	1863.6	1874.7	1880.2	1885.7	1893.2	1901.5
10°	1807.2	1814.6	1821.9	1828.5	1838.6	1846.9	1854.3	1867.3	1873.8	1883.9	1895.1
12.5°	1783.1	1793.2	1799.8	1810.8	1821.9	1829.4	1840.5	1852.5	1862.7	1872.8	1885.7
15°	1761.9	1773.9	1781.2	1793.2	1805.3	1815.5	1827.6	1842.3	1849.7	1861.8	1873.8
17.5°	1738.7	1751.7	1761.0	1772.0	1786.8	1797.9	1808.1	1822.8	1832.2	1845.1	1859.0
20°	1714.7	1727.7	1738.7	1749.8	1764.7	1775.7	1787.7	1802.6	1812.7	1825.6	1836.8
22.5°	1686.0	1698.1	1710.0	1722.9	1737.8	1747.0	1761.0	1773.9	1784.9	1797.0	1808.1
25°	1649.0	1663.9	1673.1	1685.0	1697.1	1707.3	1722.0	1735.0	1744.3	1755.3	1765.6
27.5°	1605.6	1616.6	1624.0	1634.2	1646.2	1655.4	1666.6	1679.5	1688.8	1699.0	1706.4
30°	1531.6	1541.7	1548.2	1555.6	1567.6	1576.0	1585.2	1597.2	1603.7	1611.1	1617.5
32.5°	1434.4	1442.8	1446.4	1452.0	1460.4	1468.7	1476.1	1486.2	1489.0	1493.7	1493.7
35°	1293.9	1295.7	1294.8	1296.7	1300.4	1305.0	1311.4	1317.9	1321.6	1321.6	1318.8
37.5°	1129.3	1118.1	1106.1	1096.9	1094.1	1092.3	1096.0	1098.7	1102.4	1104.3	1099.7
40°	958.2	933.2	906.3	882.3	865.7	858.3	855.4	857.4	857.4	863.8	863.8
42.5°	811.1	772.2	732.5	696.4	672.3	653.8	645.5	645.5	646.4	651.2	653.8
45°	689.1	640.0	593.8	553.9	520.6	496.7	485.6	482.7	481.8	483.6	490.2
47.5°	595.6	544.7	496.7	447.6	412.5	388.5	378.2	374.5	370.8	374.5	375.5
50°	522.6	469.8	419.0	369.9	332.9	311.6	298.7	293.2	292.3	292.3	294.1
52.5°	456.0	406.9	356.1	306.1	267.3	246.9	234.9	232.1	228.5	232.1	232.1
55°	393.1	344.0	294.1	246.9	214.5	193.3	182.1	178.5	176.6	179.4	179.4
57.5°	324.7	283.0	236.8	194.2	161.9	147.0	138.7	134.1	133.2	135.0	133.2
60°	266.4	231.2	191.5	152.7	127.7	111.9	105.4	103.6	101.7	103.6	103.6
62.5°	210.8	181.2	148.8	119.2	98.0	87.0	79.5	79.5	78.6	78.6	79.5
65°	156.3	133.2	110.0	85.0	68.4	60.1	54.6	54.6	53.7	54.6	53.7
67.5°	113.7	98.0	79.5	62.0	49.1	44.4	40.7	37.9	39.8	37.9	37.0
70°	83.2	70.3	57.4	47.1	37.9	33.3	30.5	29.6	27.8	27.8	27.8
72.5°	55.5	47.1	38.8	30.5	25.0	20.4	19.5	17.6	15.8	16.7	18.4
75°	37.0	31.5	27.8	22.2	16.7	16.7	11.1	11.1	9.2	11.1	8.3
77.5°	25.9	21.3	16.7	13.8	11.1	10.1	7.4	7.4	6.5	6.5	6.5
80°	18.4	15.8	12.0	10.1	7.4	7.4	6.5	5.5	4.6	4.6	5.5
82.5°	11.1	8.3	8.3	7.4	4.6	3.7	2.8	3.7	1.9	1.9	1.9
85°	6.5	5.5	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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1905.2	1904.3	1906.1	1906.1	1911.7	1910.7	1913.5	1913.5	1911.7	1912.6	1916.3
5°	1911.7	1914.4	1920.0	1924.6	1933.0	1936.7	1941.3	1945.9	1946.8	1949.6	1952.3
7.5°	1911.7	1920.9	1927.5	1935.7	1946.8	1953.3	1963.5	1971.8	1975.5	1980.1	1985.6
10°	1908.0	1917.2	1929.3	1938.5	1952.3	1962.6	1972.7	1985.6	1991.2	1998.6	2006.0
12.5°	1900.6	1910.7	1923.6	1935.7	1951.4	1960.6	1973.6	1985.6	1994.0	2004.2	2012.5
15°	1889.4	1901.5	1913.5	1925.6	1942.2	1953.3	1965.4	1979.2	1987.5	1998.6	2006.0
17.5°	1871.9	1884.8	1896.0	1907.0	1922.7	1935.7	1946.8	1959.8	1968.1	1977.3	1987.5
20°	1850.6	1862.7	1874.7	1883.9	1899.7	1910.7	1922.7	1934.8	1941.3	1943.1	1958.8
22.5°	1823.8	1832.2	1841.4	1856.1	1865.5	1875.6	1886.7	1897.8	1904.3	1914.4	1920.0
25°	1779.4	1787.7	1797.9	1804.4	1815.5	1823.8	1834.9	1846.9	1850.6	1858.0	1863.6
27.5°	1717.4	1722.0	1726.8	1732.3	1738.7	1743.3	1749.8	1755.3	1759.0	1762.8	1766.5
30°	1619.4	1619.4	1619.4	1615.7	1618.5	1621.2	1622.1	1621.2	1621.2	1620.3	1620.3
32.5°	1490.0	1482.5	1474.2	1466.8	1464.1	1460.4	1458.4	1455.8	1451.1	1448.3	1449.2
35°	1315.1	1298.5	1288.4	1279.1	1271.7	1266.2	1263.4	1260.6	1259.7	1256.0	1252.2
37.5°	1096.9	1084.8	1077.5	1071.9	1065.5	1059.9	1060.8	1061.8	1064.5	1062.7	1063.6
40°	865.7	862.9	865.7	859.2	857.4	859.2	863.8	870.3	874.0	877.7	884.1
42.5°	658.5	663.1	669.6	669.6	672.3	676.1	681.6	691.8	697.3	703.8	711.2
45°	495.7	501.3	509.6	512.3	514.2	518.8	525.4	533.6	537.3	542.9	549.3
47.5°	381.9	385.7	390.3	394.9	399.5	401.4	407.8	407.8	412.5	416.2	418.0
50°	297.8	301.5	305.2	307.9	309.8	312.6	314.4	317.2	318.2	320.0	321.0
52.5°	233.1	237.7	237.7	239.5	242.3	245.0	244.1	245.0	246.0	246.0	248.7
55°	182.1	182.1	185.0	185.0	186.9	185.8	186.9	186.9	186.9	186.9	187.8
57.5°	135.9	136.9	139.7	137.8	136.9	138.7	136.9	138.7	137.8	139.7	136.9
60°	104.5	104.5	105.4	105.4	106.3	106.3	106.3	105.4	105.4	104.5	104.5
62.5°	78.6	79.5	80.4	79.5	79.5	79.5	78.6	78.6	77.7	76.7	76.7
65°	52.8	51.9	53.7	51.9	52.8	52.8	51.9	52.8	49.9	50.8	49.9
67.5°	37.9	37.0	36.1	37.0	36.1	35.1	35.1	36.1	37.0	34.2	34.2
70°	25.0	25.9	25.0	25.9	26.9	26.9	25.9	25.0	25.9	24.1	25.0
72.5°	15.8	15.8	15.8	15.8	15.8	16.7	16.7	16.7	14.8	14.8	13.8
75°	7.4	10.1	8.3	7.4	10.1	10.1	9.2	9.2	8.3	8.3	8.3
77.5°	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	5.5	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: P245878

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1915.4	1914.4	1915.4	1916.3	1915.4	1914.4	1915.4	1916.3	1912.6	1911.7	1913.5
5°	1956.0	1956.0	1958.0	1958.8	1958.0	1956.0	1956.0	1952.3	1949.6	1946.8	1945.9
7.5°	1991.2	1993.0	1994.8	1995.9	1994.8	1993.0	1991.2	1985.6	1980.1	1975.5	1971.8
10°	2012.5	2015.2	2018.9	2020.8	2018.9	2015.2	2012.5	2006.0	1998.6	1991.2	1985.6
12.5°	2021.7	2024.6	2029.2	2028.3	2029.2	2024.6	2021.7	2012.5	2004.2	1994.0	1985.6
15°	2015.2	2018.9	2023.5	2025.4	2023.5	2018.9	2015.2	2006.0	1998.6	1987.5	1979.2
17.5°	1994.8	2000.5	2003.3	2006.0	2003.3	2000.5	1994.8	1987.5	1977.3	1968.1	1959.8
20°	1967.2	1970.9	1974.6	1975.5	1974.6	1970.9	1967.2	1958.8	1943.1	1941.3	1934.8
22.5°	1927.5	1930.2	1938.5	1935.7	1938.5	1930.2	1927.5	1920.0	1914.4	1904.3	1897.8
25°	1870.1	1872.8	1873.8	1874.7	1873.8	1872.8	1870.1	1863.6	1858.0	1850.6	1846.9
27.5°	1771.1	1771.1	1772.9	1773.9	1772.9	1771.1	1771.1	1766.5	1762.8	1759.0	1755.3
30°	1621.2	1621.2	1621.2	1626.0	1621.2	1621.2	1621.2	1620.3	1620.3	1621.2	1621.2
32.5°	1448.3	1446.4	1444.6	1446.4	1444.6	1446.4	1448.3	1449.2	1448.3	1451.1	1455.8
35°	1252.2	1251.3	1254.1	1250.4	1254.1	1251.3	1252.2	1252.2	1256.0	1259.7	1260.6
37.5°	1064.5	1062.7	1066.4	1062.7	1066.4	1062.7	1064.5	1063.6	1062.7	1064.5	1061.8
40°	886.0	887.8	887.8	895.3	887.8	887.8	886.0	884.1	877.7	874.0	870.3
42.5°	714.9	720.4	718.6	724.2	718.6	720.4	714.9	711.2	703.8	697.3	691.8
45°	553.1	556.8	556.8	558.6	556.8	556.8	553.1	549.3	542.9	537.3	533.6
47.5°	424.5	424.5	424.5	425.5	424.5	424.5	424.5	418.0	416.2	412.5	407.8
50°	322.8	323.7	324.7	325.6	324.7	323.7	322.8	321.0	320.0	318.2	317.2
52.5°	247.8	248.7	246.9	248.7	246.9	248.7	247.8	248.7	246.0	246.0	245.0
55°	187.8	186.9	187.8	188.7	187.8	186.9	187.8	187.8	186.9	186.9	186.9
57.5°	137.8	135.9	135.9	135.9	135.9	135.9	137.8	136.9	139.7	137.8	138.7
60°	102.7	103.6	103.6	104.5	103.6	103.6	102.7	104.5	104.5	105.4	105.4
62.5°	75.8	78.6	76.7	78.6	76.7	78.6	75.8	76.7	76.7	77.7	78.6
65°	49.1	49.1	49.1	49.9	49.1	49.1	49.1	49.9	50.8	49.9	52.8
67.5°	33.3	34.2	36.1	35.1	36.1	34.2	33.3	34.2	34.2	37.0	36.1
70°	26.9	24.1	24.1	26.9	24.1	24.1	26.9	25.0	24.1	25.9	25.0
72.5°	15.8	13.8	15.8	15.8	15.8	13.8	15.8	13.8	14.8	14.8	16.7
75°	8.3	7.4	6.5	9.2	6.5	7.4	8.3	8.3	8.3	8.3	9.2
77.5°	5.5	4.6	6.5	6.5	6.5	4.6	5.5	4.6	5.5	4.6	5.5
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: P245878

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1913.5	1910.7	1911.7	1906.1	1906.1	1904.3	1905.2	1900.6	1898.8	1896.9	1899.7
5°	1941.3	1936.7	1933.0	1924.6	1920.0	1914.4	1911.7	1904.3	1897.8	1892.2	1891.4
7.5°	1963.5	1953.3	1946.8	1935.7	1927.5	1920.9	1911.7	1901.5	1893.2	1885.7	1880.2
10°	1972.7	1962.6	1952.3	1938.5	1929.3	1917.2	1908.0	1895.1	1883.9	1873.8	1867.3
12.5°	1973.6	1960.6	1951.4	1935.7	1923.6	1910.7	1900.6	1885.7	1872.8	1862.7	1852.5
15°	1965.4	1953.3	1942.2	1925.6	1913.5	1901.5	1889.4	1873.8	1861.8	1849.7	1842.3
17.5°	1946.8	1935.7	1922.7	1907.0	1896.0	1884.8	1871.9	1859.0	1845.1	1832.2	1822.8
20°	1922.7	1910.7	1899.7	1883.9	1874.7	1862.7	1850.6	1836.8	1825.6	1812.7	1802.6
22.5°	1886.7	1875.6	1865.5	1856.1	1841.4	1832.2	1823.8	1808.1	1797.0	1784.9	1773.9
25°	1834.9	1823.8	1815.5	1804.4	1797.9	1787.7	1779.4	1765.6	1755.3	1744.3	1735.0
27.5°	1749.8	1743.3	1738.7	1732.3	1726.8	1722.0	1717.4	1706.4	1699.0	1688.8	1679.5
30°	1622.1	1621.2	1618.5	1615.7	1619.4	1619.4	1619.4	1617.5	1611.1	1603.7	1597.2
32.5°	1458.4	1460.4	1464.1	1466.8	1474.2	1482.5	1490.0	1493.7	1493.7	1489.0	1486.2
35°	1263.4	1266.2	1271.7	1279.1	1288.4	1298.5	1315.1	1318.8	1321.6	1321.6	1317.9
37.5°	1060.8	1059.9	1065.5	1071.9	1077.5	1084.8	1096.9	1099.7	1104.3	1102.4	1098.7
40°	863.8	859.2	857.4	859.2	865.7	862.9	865.7	863.8	863.8	857.4	857.4
42.5°	681.6	676.1	672.3	669.6	669.6	663.1	658.5	653.8	651.2	646.4	645.5
45°	525.4	518.8	514.2	512.3	509.6	501.3	495.7	490.2	483.6	481.8	482.7
47.5°	407.8	401.4	399.5	394.9	390.3	385.7	381.9	375.5	374.5	370.8	374.5
50°	314.4	312.6	309.8	307.9	305.2	301.5	297.8	294.1	292.3	292.3	293.2
52.5°	244.1	245.0	242.3	239.5	237.7	237.7	233.1	232.1	232.1	228.5	232.1
55°	186.9	185.8	186.9	185.0	185.0	182.1	182.1	179.4	179.4	176.6	178.5
57.5°	136.9	138.7	136.9	137.8	139.7	136.9	135.9	133.2	135.0	133.2	134.1
60°	106.3	106.3	106.3	105.4	105.4	104.5	104.5	103.6	103.6	101.7	103.6
62.5°	78.6	79.5	79.5	79.5	80.4	79.5	78.6	79.5	78.6	78.6	79.5
65°	51.9	52.8	52.8	51.9	53.7	51.9	52.8	53.7	54.6	53.7	54.6
67.5°	35.1	35.1	36.1	37.0	36.1	37.0	37.9	37.0	37.9	39.8	37.9
70°	25.9	26.9	26.9	25.9	25.0	25.9	25.0	27.8	27.8	27.8	29.6
72.5°	16.7	16.7	15.8	15.8	15.8	15.8	15.8	18.4	16.7	15.8	17.6
75°	9.2	10.1	10.1	7.4	8.3	10.1	7.4	8.3	11.1	9.2	11.1
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	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	5.5	4.6	4.6	5.5
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: P245878

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1892.2	1892.2	1891.4	1889.4	1885.7	1885.7	1884.8	1882.1	1880.2	1879.3	1879.3
5°	1883.0	1879.3	1875.6	1865.5	1865.5	1863.6	1858.0	1854.3	1852.5	1847.8	1846.0
7.5°	1874.7	1863.6	1857.2	1850.6	1842.3	1838.6	1832.2	1829.4	1822.8	1818.2	1815.5
10°	1854.3	1846.9	1838.6	1828.5	1821.9	1814.6	1807.2	1801.7	1793.2	1788.6	1784.9
12.5°	1840.5	1829.4	1821.9	1810.8	1799.8	1793.2	1783.1	1776.7	1768.3	1759.0	1753.5
15°	1827.6	1815.5	1805.3	1793.2	1781.2	1773.9	1761.9	1754.4	1742.4	1733.2	1726.8
17.5°	1808.1	1797.9	1786.8	1772.0	1761.0	1751.7	1738.7	1729.5	1718.3	1706.4	1699.9
20°	1787.7	1775.7	1764.7	1749.8	1738.7	1727.7	1714.7	1704.5	1691.6	1680.4	1673.1
22.5°	1761.0	1747.0	1737.8	1722.9	1710.0	1698.1	1686.0	1674.0	1662.0	1652.7	1644.4
25°	1722.0	1707.3	1697.1	1685.0	1673.1	1663.9	1649.0	1641.6	1629.6	1621.2	1612.9
27.5°	1666.6	1655.4	1646.2	1634.2	1624.0	1616.6	1605.6	1598.2	1587.9	1580.6	1574.1
30°	1585.2	1576.0	1567.6	1555.6	1548.2	1541.7	1531.6	1525.0	1517.7	1509.3	1507.5
32.5°	1476.1	1468.7	1460.4	1452.0	1446.4	1442.8	1434.4	1430.8	1423.4	1418.7	1414.1
35°	1311.4	1305.0	1300.4	1296.7	1294.8	1295.7	1293.9	1297.6	1299.4	1298.5	1299.4
37.5°	1096.0	1092.3	1094.1	1096.9	1106.1	1118.1	1129.3	1145.9	1157.0	1168.1	1178.3
40°	855.4	858.3	865.7	882.3	906.3	933.2	958.2	989.7	1021.0	1043.2	1063.6
42.5°	645.5	653.8	672.3	696.4	732.5	772.2	811.1	857.4	895.3	932.3	958.2
45°	485.6	496.7	520.6	553.9	593.8	640.0	689.1	740.8	786.2	824.1	852.8
47.5°	378.2	388.5	412.5	447.6	496.7	544.7	595.6	649.2	696.4	733.4	758.4
50°	298.7	311.6	332.9	369.9	419.0	469.8	522.6	575.2	619.6	651.2	673.3
52.5°	234.9	246.9	267.3	306.1	356.1	406.9	456.0	507.7	546.5	577.1	591.9
55°	182.1	193.3	214.5	246.9	294.1	344.0	393.1	437.5	473.5	495.7	509.6
57.5°	138.7	147.0	161.9	194.2	236.8	283.0	324.7	369.0	396.8	412.5	421.8
60°	105.4	111.9	127.7	152.7	191.5	231.2	266.4	299.7	321.9	334.8	344.0
62.5°	79.5	87.0	98.0	119.2	148.8	181.2	210.8	235.8	254.4	262.7	269.1
65°	54.6	60.1	68.4	85.0	110.0	133.2	156.3	174.8	186.9	196.1	199.8
67.5°	40.7	44.4	49.1	62.0	79.5	98.0	113.7	126.7	139.7	143.3	149.8
70°	30.5	33.3	37.9	47.1	57.4	70.3	83.2	90.7	99.9	106.3	108.2
72.5°	19.5	20.4	25.0	30.5	38.8	47.1	55.5	62.0	67.5	71.2	73.0
75°	11.1	16.7	16.7	22.2	27.8	31.5	37.0	41.6	44.4	47.1	47.1
77.5°	7.4	10.1	11.1	13.8	16.7	21.3	25.9	28.7	31.5	32.4	32.4
80°	6.5	7.4	7.4	10.1	12.0	15.8	18.4	19.5	21.3	22.2	24.1
82.5°	2.8	3.7	4.6	7.4	8.3	8.3	11.1	12.0	13.8	14.8	14.8
85°	0.9	1.9	1.9	2.8	4.6	5.5	6.5	7.4	8.3	8.3	9.2
87.5°	0.9	0.9	0.0	0.9	1.9	1.9	3.7	3.7	3.7	5.5	5.5
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: P245878

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1877.5	1878.4	1874.7	1873.8	1871.9	1872.8	1874.7
5°	1843.2	1844.1	1840.5	1836.8	1836.8	1835.8	1836.8
7.5°	1810.8	1811.8	1806.2	1804.4	1800.7	1801.7	1801.7
10°	1778.5	1778.5	1770.2	1769.3	1766.5	1765.6	1765.6
12.5°	1747.0	1744.3	1737.8	1734.1	1736.0	1730.4	1730.4
15°	1719.3	1714.7	1706.4	1703.6	1699.0	1697.1	1697.1
17.5°	1690.6	1686.9	1679.5	1674.0	1668.5	1667.5	1668.5
20°	1662.9	1659.2	1649.9	1646.2	1641.6	1641.6	1639.8
22.5°	1635.1	1631.5	1623.1	1620.3	1613.9	1613.9	1614.8
25°	1606.5	1603.7	1594.5	1592.6	1591.6	1587.9	1589.9
27.5°	1567.6	1565.8	1558.4	1555.6	1551.9	1551.0	1552.8
30°	1496.4	1493.7	1488.1	1485.3	1478.8	1479.8	1481.6
32.5°	1407.6	1403.9	1396.5	1393.8	1388.2	1386.3	1387.2
35°	1296.7	1293.9	1287.4	1287.4	1281.8	1280.0	1281.8
37.5°	1183.8	1186.5	1183.8	1186.5	1183.8	1182.8	1183.8
40°	1077.5	1087.6	1089.4	1099.7	1096.0	1101.5	1100.6
42.5°	975.7	992.4	998.9	1007.2	1005.3	1009.0	1011.8
45°	873.0	887.0	893.4	899.0	899.9	901.8	902.7
47.5°	775.9	787.1	787.9	794.5	793.6	793.6	796.3
50°	685.4	692.8	694.6	699.2	695.5	693.7	694.6
52.5°	601.2	608.5	606.7	608.5	603.9	602.1	603.0
55°	515.1	518.8	518.8	518.8	513.3	513.3	513.3
57.5°	427.3	428.2	426.4	427.3	426.4	420.8	419.8
60°	346.8	346.8	345.9	346.8	344.0	341.3	341.3
62.5°	271.0	272.8	276.5	272.8	271.0	272.8	270.0
65°	202.6	206.2	205.3	207.1	206.2	206.2	204.4
67.5°	152.7	153.6	154.5	155.4	155.4	155.4	155.4
70°	111.9	114.8	113.7	113.7	113.7	113.7	119.2
72.5°	74.9	78.6	77.7	79.5	79.5	81.3	79.5
75°	50.8	54.6	52.8	55.5	54.6	52.8	57.4
77.5°	34.2	36.1	37.0	37.9	37.0	36.1	37.0
80°	24.1	25.9	25.0	25.9	25.9	25.9	26.9
82.5°	14.8	17.6	16.7	17.6	16.7	17.6	17.6
85°	10.1	11.1	9.2	11.1	10.1	10.1	12.0
87.5°	6.5	5.5	5.5	6.5	5.5	6.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)