

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: P249496

Luminaire Tested: **LD8B60D010 ER8B609727 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B60D010 ER8B609727 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3896.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

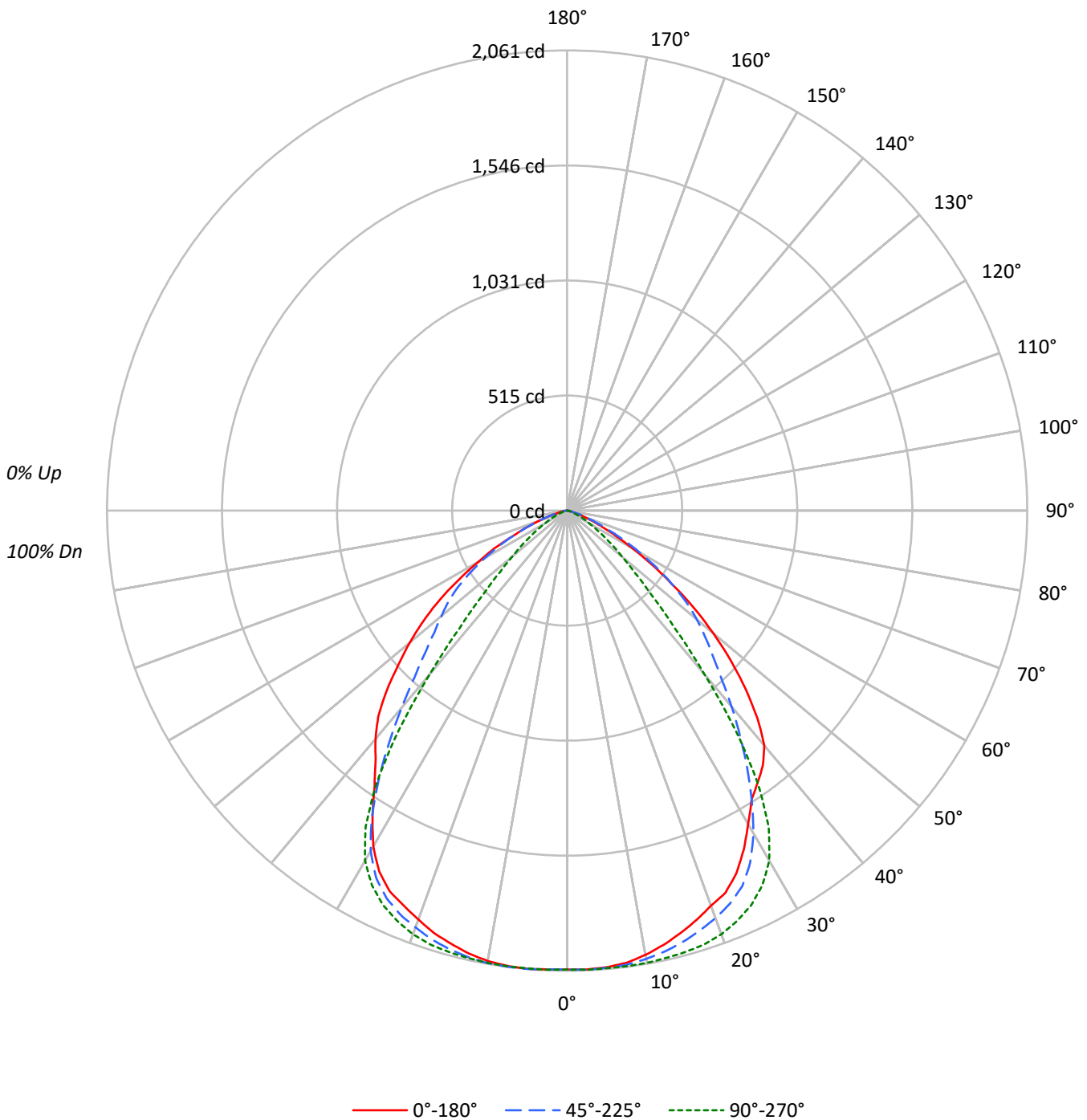
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	196.2	5.0
10°-20°	569.7	14.6
20°-30°	864.7	22.2
30°-40°	908.2	23.3
40°-50°	680.9	17.5
50°-60°	436.9	11.2
60°-70°	186.9	4.8
70°-80°	44.2	1.1
80°-90°	8.2	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°	1630.7	41.9
0°-40°	2538.9	65.2
0°-60°	3656.7	93.9
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2056	2056	2056	2056	2056	
5°	2052	2056	2058	2061	2060	195
15°	1960	2000	2047	2034	2008	553
25°	1793	1856	1950	1914	1881	819
35°	1487	1405	1488	1471	1504	934
45°	1130	924	531	897	1145	865
55°	572	572	198	596	696	518
65°	172	203	63	262	266	184
75°	26	31	9	53	52	39
85°	9	6	4	9	12	9
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°	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6
2.5°	2056.7	2058.9	2057.8	2057.8	2056.7	2057.8	2057.8	2060.0	2060.0	2057.8	2056.7
5°	2052.3	2054.5	2054.5	2052.3	2052.3	2057.8	2054.5	2056.7	2056.7	2055.6	2055.6
7.5°	2042.4	2042.4	2046.8	2043.5	2043.5	2046.8	2045.7	2047.9	2050.1	2051.2	2051.2
10°	2020.3	2022.5	2023.6	2023.6	2024.7	2028.0	2030.2	2034.7	2036.8	2039.1	2040.2
12.5°	1992.7	1996.0	1997.1	1996.0	1999.3	2003.7	2009.3	2014.8	2018.1	2022.5	2025.8
15°	1959.6	1959.6	1961.8	1965.1	1967.3	1974.0	1979.5	1986.1	1994.9	2000.4	2006.0
17.5°	1923.2	1925.4	1928.7	1928.7	1933.1	1944.2	1947.5	1957.4	1967.3	1972.9	1983.9
20°	1883.5	1885.7	1889.0	1891.2	1896.7	1905.6	1912.2	1921.0	1932.0	1942.0	1953.0
22.5°	1852.6	1848.2	1850.4	1852.6	1858.1	1865.8	1873.6	1884.6	1895.6	1905.6	1916.6
25°	1793.0	1794.1	1797.4	1799.6	1806.3	1812.9	1821.7	1834.9	1844.9	1855.9	1868.0
27.5°	1712.5	1713.6	1719.1	1719.1	1724.6	1735.6	1741.1	1752.2	1765.4	1776.4	1790.8
30°	1620.9	1623.1	1623.1	1627.5	1630.8	1636.3	1641.8	1652.9	1659.5	1669.4	1689.3
32.5°	1537.0	1539.2	1538.1	1537.0	1533.7	1532.6	1531.5	1533.7	1535.9	1539.2	1546.9
35°	1487.4	1481.8	1477.4	1469.7	1460.9	1449.9	1439.9	1426.7	1414.5	1404.6	1393.6
37.5°	1439.9	1438.8	1432.2	1421.2	1403.5	1383.7	1360.5	1331.8	1303.1	1272.2	1242.4
40°	1373.7	1370.4	1364.9	1349.4	1329.6	1305.3	1274.4	1239.1	1192.7	1145.3	1096.8
42.5°	1261.2	1262.3	1255.7	1243.5	1224.8	1201.6	1169.6	1131.0	1081.3	1025.0	962.2
45°	1129.9	1129.9	1127.7	1117.7	1104.5	1085.7	1061.5	1029.5	980.9	923.5	856.2
47.5°	993.0	994.2	990.8	988.6	983.1	971.0	953.3	929.1	894.9	839.7	772.4
50°	854.0	854.0	859.5	858.4	858.4	854.0	846.3	831.9	802.2	758.0	695.1
52.5°	715.0	717.2	720.5	724.9	730.4	739.3	730.4	723.8	705.1	670.8	616.8
55°	571.5	573.8	579.3	587.0	593.6	602.5	604.6	604.6	594.7	571.5	530.7
57.5°	449.1	445.8	450.2	456.8	465.6	474.5	481.1	488.8	487.7	472.3	439.2
60°	337.6	338.7	342.0	348.7	355.3	363.0	371.8	378.5	381.8	374.1	353.1
62.5°	246.1	246.1	250.5	257.1	260.4	271.4	276.9	280.3	283.6	282.5	269.2
65°	172.1	174.3	176.5	179.9	183.2	189.8	193.1	199.7	201.9	203.0	193.1
67.5°	121.4	118.1	120.3	122.5	125.8	130.2	136.8	136.8	140.1	140.1	133.5
70°	77.2	77.2	78.3	81.6	83.9	85.0	87.2	89.4	92.7	91.6	91.6
72.5°	51.9	50.8	51.9	53.0	54.1	57.4	57.4	58.5	60.7	61.8	57.4
75°	26.5	27.6	29.8	28.7	32.0	29.8	30.9	34.2	33.1	30.9	30.9
77.5°	22.1	22.1	22.1	21.0	23.2	23.2	22.1	24.3	23.2	23.2	22.1
80°	15.4	16.5	15.4	14.3	15.4	14.3	14.3	14.3	14.3	14.3	13.2
82.5°	12.1	9.9	11.0	9.9	11.0	11.0	9.9	8.8	8.8	9.9	8.8
85°	8.8	6.6	7.7	7.7	6.6	6.6	6.6	6.6	6.6	5.5	5.5
87.5°	5.5	3.3	3.3	3.3	4.4	4.4	4.4	3.3	4.4	4.4	2.2
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°	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6
2.5°	2058.9	2057.8	2060.0	2058.9	2058.9	2057.8	2058.9	2057.8	2060.0	2055.6	2056.7
5°	2058.9	2056.7	2057.8	2058.9	2060.0	2057.8	2057.8	2057.8	2060.0	2057.8	2058.9
7.5°	2054.5	2053.4	2056.7	2058.9	2057.8	2056.7	2058.9	2057.8	2060.0	2058.9	2061.1
10°	2045.7	2046.8	2049.0	2052.3	2053.4	2054.5	2056.7	2056.7	2060.0	2055.6	2057.8
12.5°	2032.4	2036.8	2042.4	2044.6	2049.0	2049.0	2051.2	2052.3	2054.5	2053.4	2056.7
15°	2015.9	2021.4	2028.0	2033.5	2039.1	2042.4	2045.7	2046.8	2050.1	2046.8	2047.9
17.5°	1996.0	2002.6	2012.6	2019.2	2028.0	2031.3	2035.7	2037.9	2041.3	2039.1	2040.2
20°	1968.4	1976.2	1987.2	1997.1	2002.6	2010.4	2015.9	2019.2	2021.4	2019.2	2020.3
22.5°	1929.8	1940.9	1955.2	1962.9	1974.0	1980.6	1981.7	1989.4	1994.9	1989.4	1991.6
25°	1884.6	1895.6	1906.7	1923.2	1933.1	1940.9	1948.6	1949.7	1955.2	1954.1	1953.0
27.5°	1809.5	1823.9	1842.6	1855.9	1869.1	1881.3	1890.1	1892.3	1897.8	1895.6	1896.7
30°	1706.9	1722.4	1740.1	1761.0	1779.8	1791.9	1802.9	1810.7	1816.2	1812.9	1811.8
32.5°	1561.3	1576.7	1595.5	1616.5	1638.5	1656.2	1669.4	1679.4	1686.0	1683.8	1678.3
35°	1394.7	1399.1	1411.2	1427.8	1446.5	1465.3	1477.4	1488.5	1496.2	1498.4	1498.4
37.5°	1223.7	1209.3	1200.5	1200.5	1211.5	1219.2	1230.3	1236.9	1249.0	1253.4	1256.8
40°	1058.1	1025.0	994.2	971.0	955.5	954.4	954.4	957.7	968.8	983.1	996.4
42.5°	910.3	857.3	809.9	766.9	736.0	718.3	710.6	711.7	720.5	733.8	755.8
45°	792.2	726.0	666.4	614.6	572.7	545.1	531.8	530.7	537.3	552.8	577.1
47.5°	700.7	630.0	562.7	503.1	457.9	428.1	412.7	408.3	412.7	427.0	455.7
50°	624.5	551.7	482.2	420.4	371.8	341.0	326.6	321.1	326.6	338.7	367.4
52.5°	553.9	478.9	413.8	354.2	302.3	275.8	260.4	257.1	260.4	274.7	297.9
55°	472.3	408.3	344.3	284.7	239.4	213.0	200.8	197.5	200.8	214.1	238.3
57.5°	391.7	336.5	280.3	226.2	187.6	164.4	153.4	148.9	156.7	165.5	194.2
60°	316.7	272.5	225.1	177.6	145.7	124.7	115.8	114.7	117.0	128.0	147.8
62.5°	248.3	211.9	174.3	135.7	109.2	100.4	89.4	88.3	90.5	97.1	112.6
65°	178.8	155.6	126.9	99.3	78.3	66.2	61.8	62.9	65.1	69.5	83.9
67.5°	124.7	108.1	88.3	69.5	54.1	48.5	44.1	43.0	44.1	51.9	59.6
70°	83.9	73.9	59.6	53.0	37.5	29.8	30.9	27.6	32.0	32.0	38.6
72.5°	55.2	48.5	39.7	30.9	26.5	21.0	21.0	19.9	22.1	23.2	28.7
75°	28.7	22.1	22.1	15.4	11.0	5.5	9.9	8.8	7.7	8.8	11.0
77.5°	19.9	16.5	15.4	12.1	11.0	8.8	8.8	8.8	8.8	9.9	11.0
80°	12.1	12.1	8.8	7.7	6.6	5.5	6.6	6.6	6.6	6.6	7.7
82.5°	7.7	6.6	6.6	5.5	5.5	4.4	4.4	4.4	4.4	4.4	6.6
85°	6.6	4.4	4.4	3.3	4.4	7.7	3.3	4.4	4.4	4.4	3.3
87.5°	2.2	3.3	3.3	3.3	2.2	1.1	2.2	3.3	3.3	5.5	4.4
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°	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6	2055.6
2.5°	2058.9	2060.0	2060.0	2058.9	2058.9	2056.7	2061.1	2057.8	2058.9	2063.3	2060.0
5°	2061.1	2062.2	2062.2	2061.1	2061.1	2061.1	2062.2	2062.2	2061.1	2060.0	2062.2
7.5°	2065.5	2064.4	2064.4	2062.2	2062.2	2060.0	2062.2	2058.9	2061.1	2058.9	2062.2
10°	2060.0	2061.1	2060.0	2058.9	2058.9	2057.8	2057.8	2054.5	2055.6	2052.3	2054.5
12.5°	2056.7	2055.6	2055.6	2053.4	2051.2	2049.0	2047.9	2044.6	2044.6	2036.8	2040.2
15°	2047.9	2049.0	2045.7	2041.3	2039.1	2033.5	2031.3	2026.9	2022.5	2017.0	2018.1
17.5°	2040.2	2036.8	2032.4	2028.0	2019.2	2014.8	2010.4	2003.7	2001.5	1994.9	1992.7
20°	2017.0	2014.8	2009.3	2001.5	1996.0	1986.1	1981.7	1975.1	1969.5	1962.9	1959.6
22.5°	1987.2	1985.0	1978.4	1970.6	1961.8	1957.4	1953.0	1940.9	1935.3	1928.7	1927.6
25°	1949.7	1946.4	1939.8	1930.9	1926.5	1914.4	1910.0	1901.1	1898.9	1892.3	1891.2
27.5°	1892.3	1887.9	1880.2	1869.1	1861.4	1853.7	1849.3	1842.6	1840.5	1833.8	1832.7
30°	1806.3	1800.7	1785.3	1780.9	1767.6	1759.9	1759.9	1751.1	1752.2	1747.8	1747.8
32.5°	1670.5	1661.7	1649.6	1640.7	1631.9	1627.5	1627.5	1624.2	1626.4	1626.4	1628.6
35°	1490.7	1478.5	1471.9	1466.4	1466.4	1470.8	1484.1	1487.4	1494.0	1499.5	1503.9
37.5°	1260.1	1259.0	1266.7	1273.3	1289.9	1308.6	1331.8	1351.7	1370.4	1383.7	1396.9
40°	1010.7	1038.3	1060.3	1091.3	1116.6	1153.0	1195.0	1229.2	1261.2	1284.4	1308.6
42.5°	788.9	824.2	870.6	915.8	961.1	1010.7	1065.9	1113.3	1155.2	1187.2	1212.6
45°	614.6	663.1	719.4	776.8	835.3	897.1	954.4	1003.0	1047.1	1080.2	1105.6
47.5°	495.4	548.4	612.4	675.3	741.5	806.6	870.6	912.5	948.9	975.4	998.6
50°	409.3	465.6	532.9	604.6	670.8	736.0	791.1	831.9	861.8	884.9	899.3
52.5°	342.0	401.6	473.4	545.1	611.3	670.8	720.5	751.4	775.7	792.2	805.5
55°	282.5	339.9	407.2	474.5	539.6	595.8	636.6	659.8	678.6	688.5	696.2
57.5°	230.6	283.6	345.4	407.2	463.4	509.8	541.8	564.9	573.8	581.5	580.4
60°	181.0	230.6	286.9	339.9	388.4	425.9	449.1	462.3	468.9	472.3	470.0
62.5°	142.3	187.6	230.6	276.9	312.3	344.3	366.3	366.3	369.6	370.7	374.1
65°	105.9	140.1	177.6	211.9	240.5	261.5	273.7	276.9	281.4	280.3	278.1
67.5°	78.3	103.7	131.3	156.7	176.5	189.8	198.6	206.3	205.2	203.0	201.9
70°	54.1	70.6	94.9	110.3	124.7	137.9	140.1	141.2	142.3	143.4	141.2
72.5°	37.5	49.6	62.9	76.1	85.0	90.5	96.0	97.1	97.1	97.1	96.0
75°	18.8	25.4	37.5	43.0	50.8	53.0	57.4	57.4	60.7	56.3	55.2
77.5°	16.5	19.9	26.5	30.9	34.2	37.5	38.6	41.9	40.8	38.6	39.7
80°	9.9	12.1	16.5	18.8	23.2	24.3	25.4	26.5	25.4	26.5	26.5
82.5°	7.7	8.8	11.0	11.0	14.3	14.3	15.4	15.4	16.5	16.5	16.5
85°	4.4	7.7	6.6	13.2	8.8	8.8	11.0	13.2	11.0	11.0	13.2
87.5°	4.4	4.4	3.3	4.4	4.4	4.4	5.5	6.6	6.6	7.7	6.6
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: P249496

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2055.6	2055.6	2055.6	2055.6
2.5°	2058.9	2061.1	2057.8	2056.7
5°	2062.2	2062.2	2060.0	2060.0
7.5°	2062.2	2062.2	2058.9	2056.7
10°	2053.4	2053.4	2050.1	2047.9
12.5°	2036.8	2036.8	2035.7	2032.4
15°	2015.9	2015.9	2011.5	2008.2
17.5°	1987.2	1989.4	1983.9	1983.9
20°	1956.3	1955.2	1950.8	1948.6
22.5°	1924.3	1922.1	1921.0	1914.4
25°	1890.1	1887.9	1884.6	1881.3
27.5°	1831.6	1830.5	1827.2	1822.8
30°	1742.2	1741.1	1736.7	1736.7
32.5°	1626.4	1625.3	1620.9	1622.0
35°	1506.1	1510.5	1508.3	1503.9
37.5°	1405.7	1409.0	1411.2	1409.0
40°	1321.9	1331.8	1332.9	1335.1
42.5°	1232.5	1245.7	1250.1	1252.3
45°	1125.4	1137.6	1147.5	1145.3
47.5°	1016.2	1025.0	1033.9	1027.2
50°	911.4	916.9	920.2	920.2
52.5°	812.1	812.1	811.0	812.1
55°	698.4	698.4	694.0	696.2
57.5°	579.3	581.5	578.2	572.7
60°	468.9	463.4	461.2	457.9
62.5°	365.2	365.2	357.5	367.4
65°	273.7	270.3	267.0	265.9
67.5°	198.6	197.5	194.2	193.1
70°	140.1	135.7	134.6	132.4
72.5°	93.8	93.8	91.6	91.6
75°	57.4	51.9	50.8	51.9
77.5°	39.7	38.6	38.6	37.5
80°	26.5	25.4	27.6	24.3
82.5°	16.5	17.7	16.5	17.7
85°	11.0	13.2	12.1	12.1
87.5°	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)