

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: P246172

Luminaire Tested: **LD8B40D010 ER8B40930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246172
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: LD8B40D010 ER8B40930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3259.9 lumens
Efficiency: N/A
Efficacy: 79.7 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

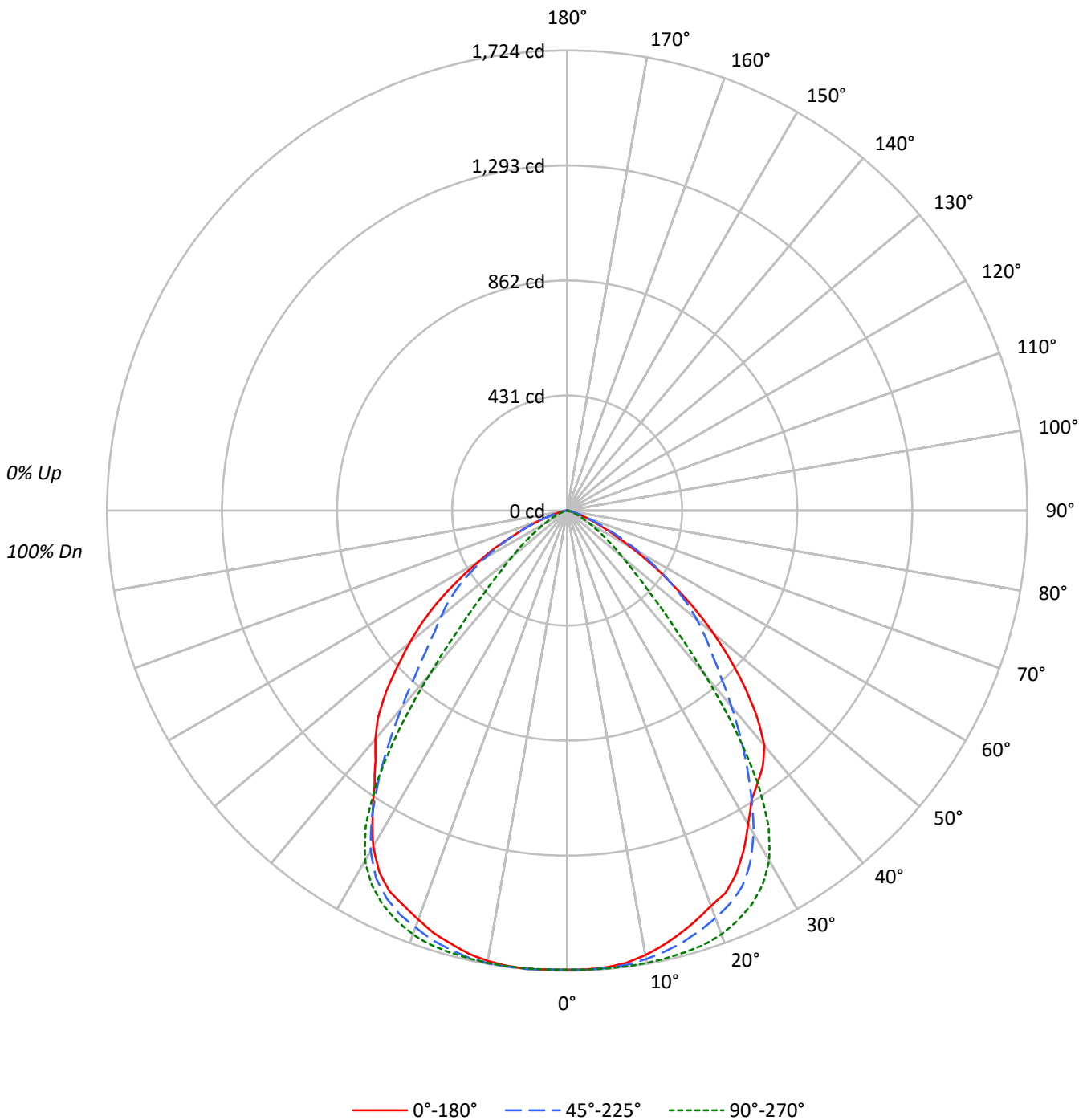
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	164.1	5.0
10°-20°	476.7	14.6
20°-30°	723.5	22.2
30°-40°	759.9	23.3
40°-50°	569.8	17.5
50°-60°	365.6	11.2
60°-70°	156.4	4.8
70°-80°	37.0	1.1
80°-90°	6.9	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°	1364.4	41.9
0°-40°	2124.4	65.2
0°-60°	3059.7	93.9
0°-90°	3259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1720	1720	1720	1720	1720	
5°	1717	1720	1722	1724	1724	163
15°	1640	1674	1713	1702	1680	462
25°	1500	1553	1631	1602	1574	685
35°	1244	1175	1245	1231	1258	781
45°	945	773	444	751	958	724
55°	478	478	165	498	583	434
65°	144	170	53	219	222	154
75°	22	26	7	44	43	32
85°	7	5	4	7	10	8
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°	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0
2.5°	1720.8	1722.8	1721.9	1721.9	1720.8	1721.9	1721.9	1723.6	1723.6	1721.9	1720.8
5°	1717.1	1719.1	1719.1	1717.1	1717.1	1721.9	1719.1	1720.8	1720.8	1720.0	1720.0
7.5°	1708.9	1708.9	1712.6	1709.9	1709.9	1712.6	1711.7	1713.6	1715.4	1716.3	1716.3
10°	1690.5	1692.3	1693.2	1693.2	1694.2	1696.9	1698.8	1702.5	1704.3	1706.2	1707.1
12.5°	1667.4	1670.1	1671.1	1670.1	1672.9	1676.6	1681.2	1685.8	1688.6	1692.3	1695.1
15°	1639.7	1639.7	1641.5	1644.3	1646.1	1651.7	1656.3	1661.8	1669.2	1673.8	1678.5
17.5°	1609.2	1611.0	1613.8	1613.8	1617.5	1626.7	1629.5	1637.8	1646.1	1650.8	1660.0
20°	1576.0	1577.8	1580.6	1582.4	1587.0	1594.4	1600.0	1607.3	1616.6	1624.9	1634.1
22.5°	1550.1	1546.4	1548.2	1550.1	1554.7	1561.2	1567.6	1576.9	1586.1	1594.4	1603.7
25°	1500.2	1501.1	1503.9	1505.7	1511.3	1516.8	1524.2	1535.3	1543.6	1552.9	1563.0
27.5°	1432.9	1433.8	1438.4	1438.4	1443.0	1452.3	1456.9	1466.0	1477.1	1486.4	1498.4
30°	1356.2	1358.1	1358.1	1361.8	1364.5	1369.2	1373.8	1383.0	1388.6	1396.9	1413.5
32.5°	1286.0	1287.9	1287.0	1286.0	1283.3	1282.3	1281.4	1283.3	1285.1	1287.9	1294.3
35°	1244.5	1239.9	1236.2	1229.7	1222.3	1213.1	1204.9	1193.8	1183.6	1175.3	1166.1
37.5°	1204.9	1203.8	1198.3	1189.2	1174.4	1157.8	1138.4	1114.4	1090.3	1064.5	1039.6
40°	1149.5	1146.7	1142.1	1129.1	1112.5	1092.2	1066.3	1036.8	998.0	958.3	917.7
42.5°	1055.2	1056.2	1050.6	1040.5	1024.8	1005.4	978.6	946.3	904.8	857.7	805.1
45°	945.3	945.3	943.5	935.3	924.2	908.5	888.2	861.4	820.8	772.7	716.4
47.5°	830.9	831.8	829.1	827.2	822.6	812.4	797.7	777.4	748.7	702.5	646.3
50°	714.6	714.6	719.2	718.2	718.2	714.6	708.1	696.1	671.1	634.3	581.7
52.5°	598.3	600.1	602.9	606.6	611.2	618.6	611.2	605.7	590.0	561.3	516.1
55°	478.2	480.1	484.7	491.1	496.7	504.1	505.9	505.9	497.6	478.2	444.0
57.5°	375.8	373.0	376.7	382.3	389.7	396.9	402.6	408.9	408.0	395.2	367.5
60°	282.5	283.4	286.2	291.8	297.3	303.8	311.1	316.7	319.5	313.0	295.4
62.5°	205.9	205.9	209.5	215.1	217.9	227.1	231.7	234.5	237.3	236.3	225.3
65°	144.0	145.8	147.7	150.4	153.2	158.7	161.5	167.1	168.9	169.8	161.5
67.5°	101.6	98.8	100.7	102.5	105.3	109.0	114.5	114.5	117.3	117.3	111.7
70°	64.7	64.7	65.6	68.3	70.2	71.1	73.0	74.8	77.6	76.7	76.7
72.5°	43.4	42.5	43.4	44.3	45.3	48.0	48.0	48.9	50.8	51.7	48.0
75°	22.2	23.1	24.9	24.0	26.8	24.9	25.9	28.6	27.7	25.9	25.9
77.5°	18.5	18.5	18.5	17.6	19.4	19.4	18.5	20.3	19.4	19.4	18.5
80°	12.9	13.9	12.9	12.0	12.9	12.0	12.0	12.0	12.0	12.0	11.1
82.5°	10.2	8.3	9.2	8.3	9.2	9.2	8.3	7.4	7.4	8.3	7.4
85°	7.4	5.5	6.5	6.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
87.5°	4.6	2.8	2.8	2.8	3.7	3.7	3.7	2.8	3.7	3.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0
2.5°	1722.8	1721.9	1723.6	1722.8	1722.8	1721.9	1722.8	1721.9	1723.6	1720.0	1720.8
5°	1722.8	1720.8	1721.9	1722.8	1723.6	1721.9	1721.9	1721.9	1723.6	1721.9	1722.8
7.5°	1719.1	1718.2	1720.8	1722.8	1721.9	1720.8	1722.8	1721.9	1723.6	1722.8	1724.5
10°	1711.7	1712.6	1714.5	1717.1	1718.2	1719.1	1720.8	1720.8	1723.6	1720.0	1721.9
12.5°	1700.6	1704.3	1708.9	1710.8	1714.5	1714.5	1716.3	1717.1	1719.1	1718.2	1720.8
15°	1686.8	1691.4	1696.9	1701.6	1706.2	1708.9	1711.7	1712.6	1715.4	1712.6	1713.6
17.5°	1670.1	1675.7	1684.0	1689.5	1696.9	1699.7	1703.4	1705.2	1708.0	1706.2	1707.1
20°	1647.0	1653.5	1662.8	1671.1	1675.7	1682.1	1686.8	1689.5	1691.4	1689.5	1690.5
22.5°	1614.7	1624.0	1636.0	1642.4	1651.7	1657.2	1658.1	1664.6	1669.2	1664.6	1666.5
25°	1576.9	1586.1	1595.3	1609.2	1617.5	1624.0	1630.4	1631.4	1636.0	1635.0	1634.1
27.5°	1514.1	1526.1	1541.8	1552.9	1563.9	1574.1	1581.5	1583.3	1588.0	1586.1	1587.0
30°	1428.3	1441.2	1456.0	1473.4	1489.1	1499.3	1508.5	1515.0	1519.6	1516.8	1515.9
32.5°	1306.4	1319.3	1335.0	1352.5	1371.0	1385.8	1396.9	1405.2	1410.7	1408.9	1404.3
35°	1167.0	1170.7	1180.9	1194.6	1210.3	1226.0	1236.2	1245.4	1251.9	1253.7	1253.7
37.5°	1023.8	1011.8	1004.5	1004.5	1013.7	1020.1	1029.4	1034.9	1045.1	1048.8	1051.6
40°	885.4	857.7	831.8	812.4	799.5	798.6	798.6	801.4	810.6	822.6	833.7
42.5°	761.6	717.3	677.6	641.7	615.8	601.1	594.6	595.5	602.9	614.0	632.4
45°	662.8	607.5	557.6	514.2	479.1	456.0	445.0	444.0	449.6	462.5	482.8
47.5°	586.3	527.2	470.8	420.9	383.2	358.2	345.3	341.6	345.3	357.3	381.3
50°	522.5	461.6	403.4	351.8	311.1	285.3	273.3	268.7	273.3	283.4	307.4
52.5°	463.4	400.6	346.2	296.4	253.0	230.8	217.9	215.1	217.9	229.9	249.3
55°	395.2	341.6	288.1	238.2	200.3	178.2	168.0	165.2	168.0	179.1	199.4
57.5°	327.8	281.6	234.5	189.2	156.9	137.5	128.4	124.7	131.0	138.4	162.4
60°	265.0	228.0	188.3	148.6	121.9	104.4	97.0	96.0	97.9	107.1	123.8
62.5°	207.7	177.2	145.8	113.6	91.4	84.0	74.8	73.9	75.7	81.3	94.2
65°	149.5	130.1	106.2	83.1	65.6	55.4	51.7	52.7	54.5	58.2	70.2
67.5°	104.4	90.5	73.9	58.2	45.3	40.6	36.9	36.0	36.9	43.4	49.9
70°	70.2	61.9	49.9	44.3	31.4	24.9	25.9	23.1	26.8	26.8	32.3
72.5°	46.2	40.6	33.2	25.9	22.2	17.6	17.6	16.6	18.5	19.4	24.0
75°	24.0	18.5	18.5	12.9	9.2	4.6	8.3	7.4	6.5	7.4	9.2
77.5°	16.6	13.9	12.9	10.2	9.2	7.4	7.4	7.4	7.4	8.3	9.2
80°	10.2	10.2	7.4	6.5	5.5	4.6	5.5	5.5	5.5	5.5	6.5
82.5°	6.5	5.5	5.5	4.6	4.6	3.7	3.7	3.7	3.7	3.7	5.5
85°	5.5	3.7	3.7	2.8	3.7	6.5	2.8	3.7	3.7	3.7	2.8
87.5°	1.9	2.8	2.8	2.8	1.9	0.9	1.9	2.8	2.8	4.6	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0	1720.0
2.5°	1722.8	1723.6	1723.6	1722.8	1722.8	1720.8	1724.5	1721.9	1722.8	1726.5	1723.6
5°	1724.5	1725.6	1725.6	1724.5	1724.5	1724.5	1725.6	1725.6	1724.5	1723.6	1725.6
7.5°	1728.2	1727.3	1727.3	1725.6	1725.6	1723.6	1725.6	1722.8	1724.5	1722.8	1725.6
10°	1723.6	1724.5	1723.6	1722.8	1722.8	1721.9	1721.9	1719.1	1720.0	1717.1	1719.1
12.5°	1720.8	1720.0	1720.0	1718.2	1716.3	1714.5	1713.6	1710.8	1710.8	1704.3	1707.1
15°	1713.6	1714.5	1711.7	1708.0	1706.2	1701.6	1699.7	1696.0	1692.3	1687.7	1688.6
17.5°	1707.1	1704.3	1700.6	1696.9	1689.5	1685.8	1682.1	1676.6	1674.8	1669.2	1667.4
20°	1687.7	1685.8	1681.2	1674.8	1670.1	1661.8	1658.1	1652.6	1648.0	1642.4	1639.7
22.5°	1662.8	1660.9	1655.4	1648.9	1641.5	1637.8	1634.1	1624.0	1619.3	1613.8	1612.9
25°	1631.4	1628.6	1623.0	1615.7	1612.0	1601.8	1598.1	1590.7	1588.9	1583.3	1582.4
27.5°	1583.3	1579.6	1573.2	1563.9	1557.5	1551.0	1547.3	1541.8	1539.9	1534.4	1533.5
30°	1511.3	1506.7	1493.7	1490.1	1479.0	1472.5	1472.5	1465.1	1466.0	1462.3	1462.3
32.5°	1397.8	1390.4	1380.2	1372.8	1365.5	1361.8	1361.8	1359.0	1360.8	1360.8	1362.7
35°	1247.2	1237.1	1231.5	1226.9	1226.9	1230.6	1241.7	1244.5	1250.0	1254.6	1258.3
37.5°	1054.3	1053.4	1059.9	1065.4	1079.3	1095.0	1114.4	1131.0	1146.7	1157.8	1168.8
40°	845.7	868.8	887.3	913.1	934.2	964.7	999.8	1028.5	1055.2	1074.6	1095.0
42.5°	660.0	689.6	728.4	766.3	804.1	845.7	891.9	931.6	966.6	993.4	1014.6
45°	514.2	554.9	602.0	650.0	698.8	750.6	798.6	839.2	876.2	903.9	925.0
47.5°	414.5	458.8	512.4	565.0	620.4	674.8	728.4	763.5	794.0	816.1	835.5
50°	342.5	389.7	445.9	505.9	561.3	615.8	662.0	696.1	721.0	740.4	752.4
52.5°	286.2	336.1	396.0	456.0	511.5	561.3	602.9	628.8	649.1	662.8	673.9
55°	236.3	284.4	340.7	396.9	451.4	498.5	532.7	552.1	567.8	576.1	582.6
57.5°	192.9	237.3	289.0	340.7	387.8	426.5	453.3	472.7	480.1	486.5	485.6
60°	151.4	192.9	240.0	284.4	325.0	356.4	375.8	386.9	392.4	395.2	393.2
62.5°	119.1	156.9	192.9	231.7	261.3	288.1	306.5	306.5	309.3	310.2	313.0
65°	88.7	117.3	148.6	177.2	201.2	218.8	229.0	231.7	235.4	234.5	232.6
67.5°	65.6	86.8	109.9	131.0	147.7	158.7	166.1	172.6	171.7	169.8	168.9
70°	45.3	59.1	79.4	92.4	104.4	115.5	117.3	118.2	119.1	120.1	118.2
72.5°	31.4	41.6	52.7	63.7	71.1	75.7	80.4	81.3	81.3	81.3	80.4
75°	15.7	21.2	31.4	36.0	42.5	44.3	48.0	48.0	50.8	47.1	46.2
77.5°	13.9	16.6	22.2	25.9	28.6	31.4	32.3	35.1	34.2	32.3	33.2
80°	8.3	10.2	13.9	15.7	19.4	20.3	21.2	22.2	21.2	22.2	22.2
82.5°	6.5	7.4	9.2	9.2	12.0	12.0	12.9	12.9	13.9	13.9	13.9
85°	3.7	6.5	5.5	11.1	7.4	7.4	9.2	11.1	9.2	9.2	11.1
87.5°	3.7	3.7	2.8	3.7	3.7	3.7	4.6	5.5	5.5	6.5	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: P246172

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1720.0	1720.0	1720.0	1720.0
2.5°	1722.8	1724.5	1721.9	1720.8
5°	1725.6	1725.6	1723.6	1723.6
7.5°	1725.6	1725.6	1722.8	1720.8
10°	1718.2	1718.2	1715.4	1713.6
12.5°	1704.3	1704.3	1703.4	1700.6
15°	1686.8	1686.8	1683.1	1680.3
17.5°	1662.8	1664.6	1660.0	1660.0
20°	1636.9	1636.0	1632.3	1630.4
22.5°	1610.1	1608.3	1607.3	1601.8
25°	1581.5	1579.6	1576.9	1574.1
27.5°	1532.5	1531.6	1528.8	1525.2
30°	1457.7	1456.9	1453.2	1453.2
32.5°	1360.8	1359.9	1356.2	1357.2
35°	1260.2	1263.9	1262.0	1258.3
37.5°	1176.2	1179.0	1180.9	1179.0
40°	1106.0	1114.4	1115.3	1117.1
42.5°	1031.2	1042.3	1046.0	1047.8
45°	941.6	951.8	960.1	958.3
47.5°	850.3	857.7	865.1	859.5
50°	762.6	767.2	770.0	770.0
52.5°	679.6	679.6	678.5	679.6
55°	584.4	584.4	580.7	582.6
57.5°	484.7	486.5	483.7	479.1
60°	392.4	387.8	385.8	383.2
62.5°	305.6	305.6	299.1	307.4
65°	229.0	226.2	223.4	222.5
67.5°	166.1	165.2	162.4	161.5
70°	117.3	113.6	112.7	110.8
72.5°	78.5	78.5	76.7	76.7
75°	48.0	43.4	42.5	43.4
77.5°	33.2	32.3	32.3	31.4
80°	22.2	21.2	23.1	20.3
82.5°	13.9	14.8	13.9	14.8
85°	9.2	11.1	10.2	10.2
87.5°	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)