

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: P245956

Luminaire Tested: **LD8B40D010 ER8B40930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245956
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 ER8B40930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE 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: 2776.7 lumens
Efficiency: N/A
Efficacy: 67.9 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

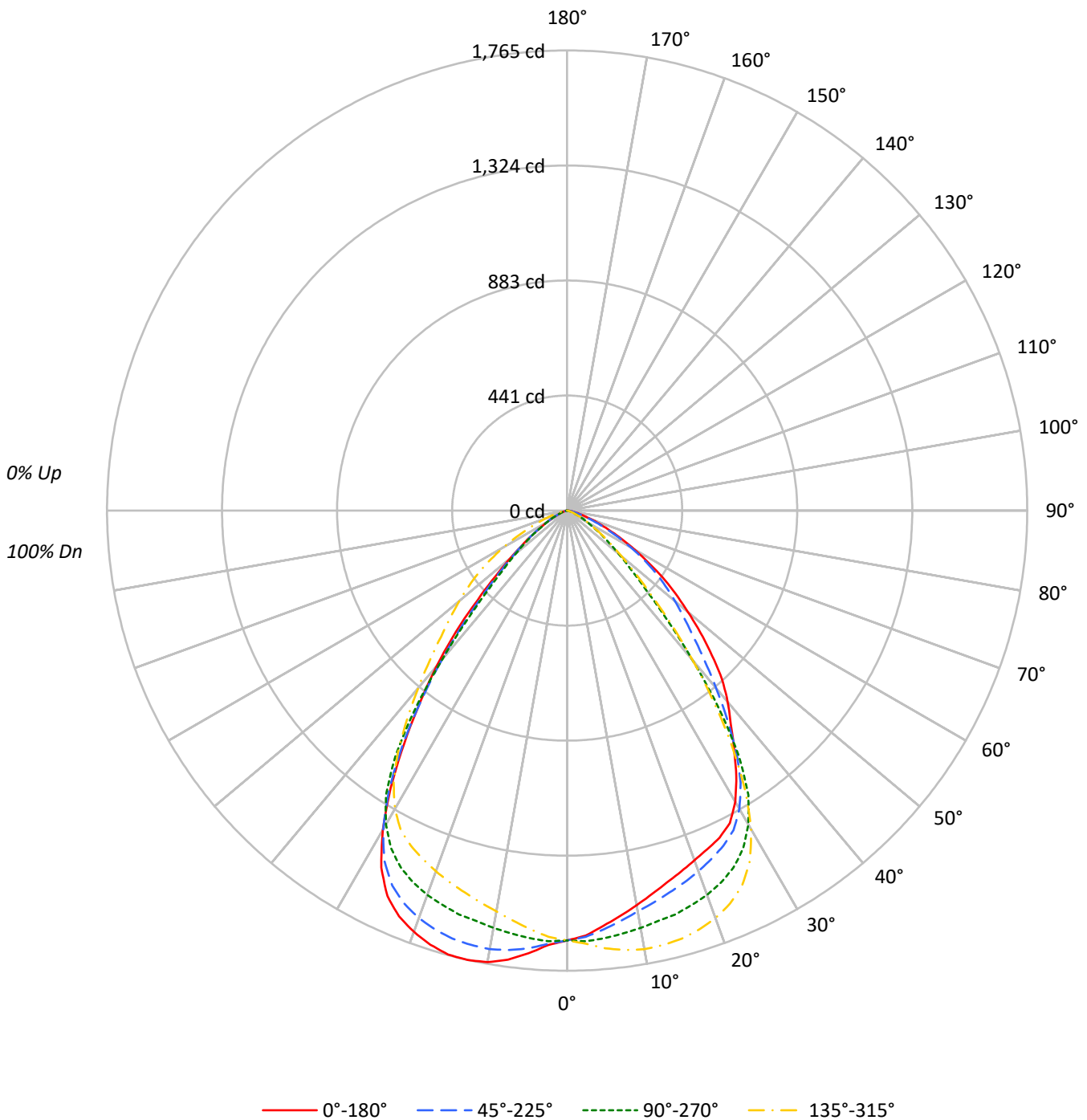
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	156.9	5.7
10°-20°	454.4	16.4
20°-30°	688.0	24.8
30°-40°	689.5	24.8
40°-50°	433.0	15.6
50°-60°	230.7	8.3
60°-70°	94.9	3.4
70°-80°	25.1	0.9
80°-90°	4.2	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°	1299.3	46.8
0°-40°	1988.8	71.6
0°-60°	2652.5	95.5
0°-90°	2776.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1648	1648	1648	1648	1648	
5°	1598	1646	1705	1646	1598	151
15°	1477	1603	1763	1603	1477	418
25°	1384	1510	1632	1510	1384	635
35°	1116	1147	1088	1147	1116	699
45°	786	420	486	420	786	604
55°	447	155	164	155	447	398
65°	178	48	44	48	178	185
75°	50	10	8	10	50	57
85°	10	0	1	0	10	11
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°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1631.5	1629.9	1629.1	1630.7	1631.5	1634.8	1634.0	1635.5	1635.5	1636.4	1638.0
5°	1598.5	1597.8	1598.5	1598.5	1601.8	1604.9	1604.2	1606.6	1608.2	1612.2	1613.8
7.5°	1567.9	1567.9	1567.2	1570.4	1572.0	1576.8	1576.0	1580.0	1582.4	1586.4	1592.0
10°	1536.6	1536.6	1537.3	1539.8	1540.6	1547.9	1547.9	1553.5	1556.7	1560.8	1567.9
12.5°	1506.0	1506.0	1510.8	1509.2	1512.5	1518.1	1520.4	1526.1	1530.9	1539.0	1546.2
15°	1477.0	1477.0	1478.6	1482.6	1485.1	1492.3	1496.3	1502.8	1508.4	1516.5	1526.9
17.5°	1452.0	1451.2	1452.0	1456.9	1461.7	1468.2	1471.3	1479.4	1485.1	1495.5	1505.2
20°	1427.1	1428.7	1428.7	1432.8	1436.0	1444.0	1447.2	1456.1	1462.6	1472.2	1483.4
22.5°	1405.4	1404.6	1404.6	1410.2	1412.6	1419.9	1423.1	1431.1	1438.4	1446.4	1456.9
25°	1383.7	1382.0	1385.2	1386.0	1387.7	1395.6	1398.1	1403.7	1411.0	1418.3	1428.7
27.5°	1351.5	1349.8	1350.7	1353.8	1356.3	1362.7	1364.4	1370.0	1375.6	1382.0	1390.9
30°	1289.5	1287.8	1287.0	1292.7	1295.1	1299.9	1302.4	1312.0	1313.6	1320.9	1327.3
32.5°	1207.3	1206.5	1208.2	1213.0	1215.4	1221.9	1225.0	1230.7	1234.7	1238.7	1245.2
35°	1115.6	1113.9	1115.6	1120.4	1120.4	1126.0	1128.5	1130.9	1130.1	1130.9	1129.3
37.5°	1030.3	1029.4	1030.3	1032.7	1030.3	1032.7	1030.3	1025.5	1016.6	1007.0	997.2
40°	957.9	958.7	953.9	957.0	948.1	946.6	937.7	925.6	907.9	888.6	861.3
42.5°	880.5	878.2	874.9	876.5	869.3	863.6	849.2	833.9	811.4	779.2	746.1
45°	785.6	784.8	783.1	782.3	777.5	771.9	759.8	742.1	717.2	684.1	644.7
47.5°	693.0	690.6	690.6	691.4	685.7	684.9	675.3	660.0	638.3	606.1	565.1
50°	604.4	603.7	605.3	608.5	604.4	602.9	596.5	585.9	566.7	539.3	500.6
52.5°	524.7	524.0	525.6	529.7	528.0	529.7	523.2	515.1	502.2	475.6	441.9
55°	446.7	446.7	446.7	451.5	451.5	451.5	448.3	443.5	431.5	412.1	380.7
57.5°	365.4	366.2	371.1	371.8	371.1	372.7	371.8	367.0	359.1	345.3	321.2
60°	297.1	297.1	299.4	301.9	301.0	301.9	301.9	299.4	291.3	280.1	260.9
62.5°	235.1	237.4	235.9	237.4	240.7	237.4	235.9	234.3	228.6	221.4	205.3
65°	177.9	179.5	179.5	180.3	178.7	179.5	176.3	173.9	170.6	162.7	152.1
67.5°	135.2	135.2	135.2	135.2	134.4	133.6	132.8	130.4	124.8	121.5	110.3
70°	103.8	99.0	99.0	99.0	99.0	99.8	97.4	94.2	92.6	87.0	78.9
72.5°	69.2	70.8	69.2	69.2	67.6	68.4	65.2	63.6	62.0	58.7	53.9
75°	49.9	45.8	47.5	48.3	45.8	47.5	44.3	41.0	41.0	38.7	36.2
77.5°	32.2	31.4	32.2	33.0	32.2	31.4	29.8	28.1	28.1	27.4	25.0
80°	23.3	22.5	22.5	22.5	21.7	22.5	21.0	21.0	19.3	18.5	16.9
82.5°	15.4	15.4	14.5	15.4	14.5	15.4	12.9	12.9	12.9	12.1	10.4
85°	10.4	8.9	8.9	9.6	8.1	9.6	8.9	8.1	7.3	7.3	6.4
87.5°	4.8	5.6	4.8	5.6	4.8	4.8	5.6	4.8	4.8	3.3	3.3
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°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1640.4	1641.1	1641.1	1644.4	1646.1	1646.9	1646.9	1653.3	1650.9	1652.5	1654.0
5°	1617.0	1621.9	1623.5	1623.5	1632.4	1635.5	1638.8	1646.1	1646.9	1651.7	1657.3
7.5°	1594.5	1600.1	1603.4	1610.7	1616.3	1621.9	1631.5	1636.4	1641.1	1647.6	1654.9
10°	1572.8	1579.3	1585.7	1591.3	1600.1	1607.4	1613.8	1625.1	1630.7	1639.6	1649.2
12.5°	1551.9	1560.8	1566.4	1576.0	1585.7	1592.0	1601.8	1612.2	1621.1	1629.9	1641.1
15°	1533.3	1543.8	1550.2	1560.8	1571.2	1580.0	1590.5	1603.4	1609.9	1620.3	1630.7
17.5°	1513.2	1524.6	1532.5	1542.2	1555.1	1564.7	1573.7	1586.4	1594.5	1605.8	1617.8
20°	1492.3	1503.6	1513.2	1522.9	1535.8	1545.4	1555.8	1568.7	1577.6	1588.9	1598.5
22.5°	1467.4	1477.8	1488.2	1499.6	1512.5	1520.4	1532.5	1543.8	1553.5	1563.9	1573.7
25°	1435.1	1448.0	1456.1	1466.5	1477.0	1485.9	1498.8	1510.0	1518.1	1527.7	1536.6
27.5°	1397.3	1407.0	1413.5	1422.2	1432.8	1440.8	1450.5	1461.7	1469.7	1478.6	1485.1
30°	1332.9	1341.8	1347.4	1353.8	1364.4	1371.5	1379.6	1390.0	1395.6	1402.1	1407.8
32.5°	1248.3	1255.6	1258.9	1263.7	1271.0	1278.2	1284.7	1293.5	1295.9	1299.9	1299.9
35°	1126.0	1127.6	1126.8	1128.5	1131.8	1135.7	1141.4	1147.0	1150.1	1150.1	1147.8
37.5°	982.8	973.1	962.7	954.6	952.2	950.6	953.9	956.2	959.5	961.0	957.0
40°	833.9	812.2	788.8	767.9	753.4	746.9	744.6	746.1	746.1	751.7	751.7
42.5°	705.9	672.0	637.5	606.1	585.2	569.1	561.8	561.8	562.6	566.7	569.1
45°	599.6	557.0	516.8	482.1	453.1	432.3	422.6	420.2	419.4	420.9	426.5
47.5°	518.4	474.1	432.3	389.5	359.1	338.1	329.2	326.0	322.7	326.0	326.8
50°	454.8	408.9	364.7	322.0	289.8	271.3	260.0	255.1	254.4	254.4	255.9
52.5°	396.8	354.1	310.0	266.5	232.6	214.9	204.5	202.0	198.9	202.0	202.0
55°	342.1	299.4	255.9	214.9	186.8	168.3	158.5	155.4	153.7	156.2	156.2
57.5°	282.5	246.3	206.0	169.0	140.9	128.0	120.7	116.7	115.9	117.5	115.9
60°	231.8	201.2	166.6	132.8	111.1	97.4	91.8	90.1	88.6	90.1	90.1
62.5°	183.5	157.7	129.6	103.8	85.3	75.7	69.2	69.2	68.4	68.4	69.2
65°	136.1	115.9	95.7	74.1	59.5	52.4	47.5	47.5	46.6	47.5	46.6
67.5°	99.0	85.3	69.2	53.9	42.7	38.7	35.4	33.0	34.6	33.0	32.2
70°	72.4	61.2	49.9	41.0	33.0	29.0	26.6	25.8	24.1	24.1	24.1
72.5°	48.3	41.0	33.7	26.6	21.7	17.7	16.9	15.4	13.7	14.5	16.1
75°	32.2	27.4	24.1	19.3	14.5	14.5	9.6	9.6	8.1	9.6	7.3
77.5°	22.5	18.5	14.5	12.1	9.6	8.9	6.4	6.4	5.6	5.6	5.6
80°	16.1	13.7	10.4	8.9	6.4	6.4	5.6	4.8	4.0	4.0	4.8
82.5°	9.6	7.3	7.3	6.4	4.0	3.3	2.5	3.3	1.6	1.6	1.6
85°	5.6	4.8	4.0	2.5	1.6	1.6	0.8	0.0	0.8	0.8	0.0
87.5°	3.3	1.6	1.6	0.8	0.0	0.8	0.8	0.0	0.0	0.0	1.6
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°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1658.1	1657.3	1659.0	1659.0	1663.8	1662.9	1665.4	1665.4	1663.8	1664.6	1667.7
5°	1663.8	1666.1	1671.0	1675.0	1682.3	1685.5	1689.5	1693.5	1694.3	1696.7	1699.2
7.5°	1663.8	1671.9	1677.5	1684.6	1694.3	1700.0	1708.9	1716.0	1719.3	1723.3	1728.1
10°	1660.5	1668.6	1679.0	1687.1	1699.2	1708.1	1716.8	1728.1	1733.0	1739.3	1745.8
12.5°	1654.0	1662.9	1674.2	1684.6	1698.3	1706.4	1717.7	1728.1	1735.4	1744.3	1751.5
15°	1644.4	1654.9	1665.4	1675.8	1690.2	1700.0	1710.4	1722.5	1729.7	1739.3	1745.8
17.5°	1629.1	1640.4	1650.1	1659.8	1673.4	1684.6	1694.3	1705.6	1712.9	1721.0	1729.7
20°	1610.7	1621.1	1631.5	1639.6	1653.3	1662.9	1673.4	1683.9	1689.5	1691.1	1704.8
22.5°	1587.3	1594.5	1602.6	1615.5	1623.5	1632.4	1642.0	1651.7	1657.3	1666.1	1671.0
25°	1548.7	1555.8	1564.7	1570.4	1580.0	1587.3	1597.0	1607.4	1610.7	1617.0	1621.9
27.5°	1494.7	1498.8	1502.8	1507.6	1513.2	1517.3	1522.9	1527.7	1530.9	1534.2	1537.3
30°	1409.4	1409.4	1409.4	1406.2	1408.5	1411.0	1411.8	1411.0	1411.0	1410.2	1410.2
32.5°	1296.7	1290.3	1283.0	1276.6	1274.1	1271.0	1269.3	1267.0	1262.9	1260.5	1261.2
35°	1144.5	1130.1	1121.2	1113.2	1106.8	1101.9	1099.5	1097.1	1096.3	1093.1	1089.8
37.5°	954.6	944.1	937.7	932.9	927.3	922.5	923.3	924.0	926.4	924.8	925.6
40°	753.4	751.0	753.4	747.7	746.1	747.7	751.7	757.5	760.6	763.8	769.5
42.5°	573.1	577.1	582.8	582.8	585.2	588.4	593.2	602.1	606.9	612.5	619.0
45°	431.5	436.3	443.5	445.9	447.5	451.5	457.3	464.4	467.7	472.5	478.1
47.5°	332.5	335.6	339.7	343.7	347.7	349.3	354.9	354.9	359.1	362.2	363.8
50°	259.2	262.4	265.6	268.0	269.6	272.1	273.6	276.1	276.9	278.5	279.2
52.5°	202.8	206.8	206.8	208.5	210.9	213.3	212.5	213.3	214.1	214.1	216.5
55°	158.5	158.5	161.0	161.0	162.7	161.8	162.7	162.7	162.7	162.7	163.4
57.5°	118.3	119.2	121.5	119.9	119.2	120.7	119.2	120.7	119.9	121.5	119.2
60°	90.9	90.9	91.8	91.8	92.6	92.6	92.6	91.8	91.8	90.9	90.9
62.5°	68.4	69.2	70.1	69.2	69.2	69.2	68.4	68.4	67.6	66.8	66.8
65°	45.8	45.1	46.6	45.1	45.8	45.8	45.1	45.8	43.5	44.3	43.5
67.5°	33.0	32.2	31.4	32.2	31.4	30.6	30.6	31.4	32.2	29.8	29.8
70°	21.7	22.5	21.7	22.5	23.3	23.3	22.5	21.7	22.5	21.0	21.7
72.5°	13.7	13.7	13.7	13.7	13.7	14.5	14.5	14.5	12.9	12.9	12.1
75°	6.4	8.9	7.3	6.4	8.9	8.9	8.1	8.1	7.3	7.3	7.3
77.5°	6.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.0	4.8	4.0
80°	3.3	3.3	3.3	2.5	3.3	3.3	4.0	3.3	3.3	2.5	4.0
82.5°	1.6	1.6	1.6	0.0	0.8	1.6	1.6	0.8	1.6	1.6	0.8
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: P245956

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1666.9	1666.1	1666.9	1667.7	1666.9	1666.1	1666.9	1667.7	1664.6	1663.8	1665.4
5°	1702.4	1702.4	1703.9	1704.8	1703.9	1702.4	1702.4	1699.2	1696.7	1694.3	1693.5
7.5°	1733.0	1734.6	1736.2	1737.0	1736.2	1734.6	1733.0	1728.1	1723.3	1719.3	1716.0
10°	1751.5	1753.9	1757.2	1758.7	1757.2	1753.9	1751.5	1745.8	1739.3	1733.0	1728.1
12.5°	1759.5	1762.0	1765.9	1765.1	1765.9	1762.0	1759.5	1751.5	1744.3	1735.4	1728.1
15°	1753.9	1757.2	1761.1	1762.8	1761.1	1757.2	1753.9	1745.8	1739.3	1729.7	1722.5
17.5°	1736.2	1741.0	1743.4	1745.8	1743.4	1741.0	1736.2	1729.7	1721.0	1712.9	1705.6
20°	1712.0	1715.2	1718.5	1719.3	1718.5	1715.2	1712.0	1704.8	1691.1	1689.5	1683.9
22.5°	1677.5	1679.8	1687.1	1684.6	1687.1	1679.8	1677.5	1671.0	1666.1	1657.3	1651.7
25°	1627.5	1629.9	1630.7	1631.5	1630.7	1629.9	1627.5	1621.9	1617.0	1610.7	1607.4
27.5°	1541.4	1541.4	1542.9	1543.8	1542.9	1541.4	1541.4	1537.3	1534.2	1530.9	1527.7
30°	1411.0	1411.0	1411.0	1415.0	1411.0	1411.0	1411.0	1410.2	1410.2	1411.0	1411.0
32.5°	1260.5	1258.9	1257.3	1258.9	1257.3	1258.9	1260.5	1261.2	1260.5	1262.9	1267.0
35°	1089.8	1089.1	1091.4	1088.3	1091.4	1089.1	1089.8	1089.8	1093.1	1096.3	1097.1
37.5°	926.4	924.8	928.1	924.8	928.1	924.8	926.4	925.6	924.8	926.4	924.0
40°	771.1	772.7	772.7	779.2	772.7	772.7	771.1	769.5	763.8	760.6	757.5
42.5°	622.2	627.0	625.4	630.2	625.4	627.0	622.2	619.0	612.5	606.9	602.1
45°	481.4	484.6	484.6	486.2	484.6	484.6	481.4	478.1	472.5	467.7	464.4
47.5°	369.5	369.5	369.5	370.3	369.5	369.5	369.5	363.8	362.2	359.1	354.9
50°	280.9	281.7	282.5	283.4	282.5	281.7	280.9	279.2	278.5	276.9	276.1
52.5°	215.7	216.5	214.9	216.5	214.9	216.5	215.7	216.5	214.1	214.1	213.3
55°	163.4	162.7	163.4	164.2	163.4	162.7	163.4	163.4	162.7	162.7	162.7
57.5°	119.9	118.3	118.3	118.3	118.3	118.3	119.9	119.2	121.5	119.9	120.7
60°	89.3	90.1	90.1	90.9	90.1	90.1	89.3	90.9	90.9	91.8	91.8
62.5°	66.0	68.4	66.8	68.4	66.8	68.4	66.0	66.8	66.8	67.6	68.4
65°	42.7	42.7	42.7	43.5	42.7	42.7	42.7	43.5	44.3	43.5	45.8
67.5°	29.0	29.8	31.4	30.6	31.4	29.8	29.0	29.8	29.8	32.2	31.4
70°	23.3	21.0	21.0	23.3	21.0	21.0	23.3	21.7	21.0	22.5	21.7
72.5°	13.7	12.1	13.7	13.7	13.7	12.1	13.7	12.1	12.9	12.9	14.5
75°	7.3	6.4	5.6	8.1	5.6	6.4	7.3	7.3	7.3	7.3	8.1
77.5°	4.8	4.0	5.6	5.6	5.6	4.0	4.8	4.0	4.8	4.0	4.8
80°	2.5	3.3	2.5	4.0	2.5	3.3	2.5	4.0	2.5	3.3	3.3
82.5°	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.8	1.6	1.6	0.8
85°	0.0	1.6	0.8	0.8	0.8	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.8	0.0	0.0	0.8	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: P245956

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1665.4	1662.9	1663.8	1659.0	1659.0	1657.3	1658.1	1654.0	1652.5	1650.9	1653.3
5°	1689.5	1685.5	1682.3	1675.0	1671.0	1666.1	1663.8	1657.3	1651.7	1646.9	1646.1
7.5°	1708.9	1700.0	1694.3	1684.6	1677.5	1671.9	1663.8	1654.9	1647.6	1641.1	1636.4
10°	1716.8	1708.1	1699.2	1687.1	1679.0	1668.6	1660.5	1649.2	1639.6	1630.7	1625.1
12.5°	1717.7	1706.4	1698.3	1684.6	1674.2	1662.9	1654.0	1641.1	1629.9	1621.1	1612.2
15°	1710.4	1700.0	1690.2	1675.8	1665.4	1654.9	1644.4	1630.7	1620.3	1609.9	1603.4
17.5°	1694.3	1684.6	1673.4	1659.8	1650.1	1640.4	1629.1	1617.8	1605.8	1594.5	1586.4
20°	1673.4	1662.9	1653.3	1639.6	1631.5	1621.1	1610.7	1598.5	1588.9	1577.6	1568.7
22.5°	1642.0	1632.4	1623.5	1615.5	1602.6	1594.5	1587.3	1573.7	1563.9	1553.5	1543.8
25°	1597.0	1587.3	1580.0	1570.4	1564.7	1555.8	1548.7	1536.6	1527.7	1518.1	1510.0
27.5°	1522.9	1517.3	1513.2	1507.6	1502.8	1498.8	1494.7	1485.1	1478.6	1469.7	1461.7
30°	1411.8	1411.0	1408.5	1406.2	1409.4	1409.4	1409.4	1407.8	1402.1	1395.6	1390.0
32.5°	1269.3	1271.0	1274.1	1276.6	1283.0	1290.3	1296.7	1299.9	1299.9	1295.9	1293.5
35°	1099.5	1101.9	1106.8	1113.2	1121.2	1130.1	1144.5	1147.8	1150.1	1150.1	1147.0
37.5°	923.3	922.5	927.3	932.9	937.7	944.1	954.6	957.0	961.0	959.5	956.2
40°	751.7	747.7	746.1	747.7	753.4	751.0	753.4	751.7	751.7	746.1	746.1
42.5°	593.2	588.4	585.2	582.8	582.8	577.1	573.1	569.1	566.7	562.6	561.8
45°	457.3	451.5	447.5	445.9	443.5	436.3	431.5	426.5	420.9	419.4	420.2
47.5°	354.9	349.3	347.7	343.7	339.7	335.6	332.5	326.8	326.0	322.7	326.0
50°	273.6	272.1	269.6	268.0	265.6	262.4	259.2	255.9	254.4	254.4	255.1
52.5°	212.5	213.3	210.9	208.5	206.8	206.8	202.8	202.0	202.0	198.9	202.0
55°	162.7	161.8	162.7	161.0	161.0	158.5	158.5	156.2	156.2	153.7	155.4
57.5°	119.2	120.7	119.2	119.9	121.5	119.2	118.3	115.9	117.5	115.9	116.7
60°	92.6	92.6	92.6	91.8	91.8	90.9	90.9	90.1	90.1	88.6	90.1
62.5°	68.4	69.2	69.2	69.2	70.1	69.2	68.4	69.2	68.4	68.4	69.2
65°	45.1	45.8	45.8	45.1	46.6	45.1	45.8	46.6	47.5	46.6	47.5
67.5°	30.6	30.6	31.4	32.2	31.4	32.2	33.0	32.2	33.0	34.6	33.0
70°	22.5	23.3	23.3	22.5	21.7	22.5	21.7	24.1	24.1	24.1	25.8
72.5°	14.5	14.5	13.7	13.7	13.7	13.7	13.7	16.1	14.5	13.7	15.4
75°	8.1	8.9	8.9	6.4	7.3	8.9	6.4	7.3	9.6	8.1	9.6
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	6.4	5.6	5.6	5.6	6.4
80°	4.0	3.3	3.3	2.5	3.3	3.3	3.3	4.8	4.0	4.0	4.8
82.5°	1.6	1.6	0.8	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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: P245956

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1646.9	1646.9	1646.1	1644.4	1641.1	1641.1	1640.4	1638.0	1636.4	1635.5	1635.5
5°	1638.8	1635.5	1632.4	1623.5	1623.5	1621.9	1617.0	1613.8	1612.2	1608.2	1606.6
7.5°	1631.5	1621.9	1616.3	1610.7	1603.4	1600.1	1594.5	1592.0	1586.4	1582.4	1580.0
10°	1613.8	1607.4	1600.1	1591.3	1585.7	1579.3	1572.8	1567.9	1560.8	1556.7	1553.5
12.5°	1601.8	1592.0	1585.7	1576.0	1566.4	1560.8	1551.9	1546.2	1539.0	1530.9	1526.1
15°	1590.5	1580.0	1571.2	1560.8	1550.2	1543.8	1533.3	1526.9	1516.5	1508.4	1502.8
17.5°	1573.7	1564.7	1555.1	1542.2	1532.5	1524.6	1513.2	1505.2	1495.5	1485.1	1479.4
20°	1555.8	1545.4	1535.8	1522.9	1513.2	1503.6	1492.3	1483.4	1472.2	1462.6	1456.1
22.5°	1532.5	1520.4	1512.5	1499.6	1488.2	1477.8	1467.4	1456.9	1446.4	1438.4	1431.1
25°	1498.8	1485.9	1477.0	1466.5	1456.1	1448.0	1435.1	1428.7	1418.3	1411.0	1403.7
27.5°	1450.5	1440.8	1432.8	1422.2	1413.5	1407.0	1397.3	1390.9	1382.0	1375.6	1370.0
30°	1379.6	1371.5	1364.4	1353.8	1347.4	1341.8	1332.9	1327.3	1320.9	1313.6	1312.0
32.5°	1284.7	1278.2	1271.0	1263.7	1258.9	1255.6	1248.3	1245.2	1238.7	1234.7	1230.7
35°	1141.4	1135.7	1131.8	1128.5	1126.8	1127.6	1126.0	1129.3	1130.9	1130.1	1130.9
37.5°	953.9	950.6	952.2	954.6	962.7	973.1	982.8	997.2	1007.0	1016.6	1025.5
40°	744.6	746.9	753.4	767.9	788.8	812.2	833.9	861.3	888.6	907.9	925.6
42.5°	561.8	569.1	585.2	606.1	637.5	672.0	705.9	746.1	779.2	811.4	833.9
45°	422.6	432.3	453.1	482.1	516.8	557.0	599.6	644.7	684.1	717.2	742.1
47.5°	329.2	338.1	359.1	389.5	432.3	474.1	518.4	565.1	606.1	638.3	660.0
50°	260.0	271.3	289.8	322.0	364.7	408.9	454.8	500.6	539.3	566.7	585.9
52.5°	204.5	214.9	232.6	266.5	310.0	354.1	396.8	441.9	475.6	502.2	515.1
55°	158.5	168.3	186.8	214.9	255.9	299.4	342.1	380.7	412.1	431.5	443.5
57.5°	120.7	128.0	140.9	169.0	206.0	246.3	282.5	321.2	345.3	359.1	367.0
60°	91.8	97.4	111.1	132.8	166.6	201.2	231.8	260.9	280.1	291.3	299.4
62.5°	69.2	75.7	85.3	103.8	129.6	157.7	183.5	205.3	221.4	228.6	234.3
65°	47.5	52.4	59.5	74.1	95.7	115.9	136.1	152.1	162.7	170.6	173.9
67.5°	35.4	38.7	42.7	53.9	69.2	85.3	99.0	110.3	121.5	124.8	130.4
70°	26.6	29.0	33.0	41.0	49.9	61.2	72.4	78.9	87.0	92.6	94.2
72.5°	16.9	17.7	21.7	26.6	33.7	41.0	48.3	53.9	58.7	62.0	63.6
75°	9.6	14.5	14.5	19.3	24.1	27.4	32.2	36.2	38.7	41.0	41.0
77.5°	6.4	8.9	9.6	12.1	14.5	18.5	22.5	25.0	27.4	28.1	28.1
80°	5.6	6.4	6.4	8.9	10.4	13.7	16.1	16.9	18.5	19.3	21.0
82.5°	2.5	3.3	4.0	6.4	7.3	7.3	9.6	10.4	12.1	12.9	12.9
85°	0.8	1.6	1.6	2.5	4.0	4.8	5.6	6.4	7.3	7.3	8.1
87.5°	0.8	0.8	0.0	0.8	1.6	1.6	3.3	3.3	3.3	4.8	4.8
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: P245956

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	1634.0	1634.8	1631.5	1630.7	1629.1	1629.9	1631.5
5°	1604.2	1604.9	1601.8	1598.5	1598.5	1597.8	1598.5
7.5°	1576.0	1576.8	1572.0	1570.4	1567.2	1567.9	1567.9
10°	1547.9	1547.9	1540.6	1539.8	1537.3	1536.6	1536.6
12.5°	1520.4	1518.1	1512.5	1509.2	1510.8	1506.0	1506.0
15°	1496.3	1492.3	1485.1	1482.6	1478.6	1477.0	1477.0
17.5°	1471.3	1468.2	1461.7	1456.9	1452.0	1451.2	1452.0
20°	1447.2	1444.0	1436.0	1432.8	1428.7	1428.7	1427.1
22.5°	1423.1	1419.9	1412.6	1410.2	1404.6	1404.6	1405.4
25°	1398.1	1395.6	1387.7	1386.0	1385.2	1382.0	1383.7
27.5°	1364.4	1362.7	1356.3	1353.8	1350.7	1349.8	1351.5
30°	1302.4	1299.9	1295.1	1292.7	1287.0	1287.8	1289.5
32.5°	1225.0	1221.9	1215.4	1213.0	1208.2	1206.5	1207.3
35°	1128.5	1126.0	1120.4	1120.4	1115.6	1113.9	1115.6
37.5°	1030.3	1032.7	1030.3	1032.7	1030.3	1029.4	1030.3
40°	937.7	946.6	948.1	957.0	953.9	958.7	957.9
42.5°	849.2	863.6	869.3	876.5	874.9	878.2	880.5
45°	759.8	771.9	777.5	782.3	783.1	784.8	785.6
47.5°	675.3	684.9	685.7	691.4	690.6	690.6	693.0
50°	596.5	602.9	604.4	608.5	605.3	603.7	604.4
52.5°	523.2	529.7	528.0	529.7	525.6	524.0	524.7
55°	448.3	451.5	451.5	451.5	446.7	446.7	446.7
57.5°	371.8	372.7	371.1	371.8	371.1	366.2	365.4
60°	301.9	301.9	301.0	301.9	299.4	297.1	297.1
62.5°	235.9	237.4	240.7	237.4	235.9	237.4	235.1
65°	176.3	179.5	178.7	180.3	179.5	179.5	177.9
67.5°	132.8	133.6	134.4	135.2	135.2	135.2	135.2
70°	97.4	99.8	99.0	99.0	99.0	99.0	103.8
72.5°	65.2	68.4	67.6	69.2	69.2	70.8	69.2
75°	44.3	47.5	45.8	48.3	47.5	45.8	49.9
77.5°	29.8	31.4	32.2	33.0	32.2	31.4	32.2
80°	21.0	22.5	21.7	22.5	22.5	22.5	23.3
82.5°	12.9	15.4	14.5	15.4	14.5	15.4	15.4
85°	8.9	9.6	8.1	9.6	8.9	8.9	10.4
87.5°	5.6	4.8	4.8	5.6	4.8	5.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)