

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 ER8B409727 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 ER8B409727 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: 2836.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

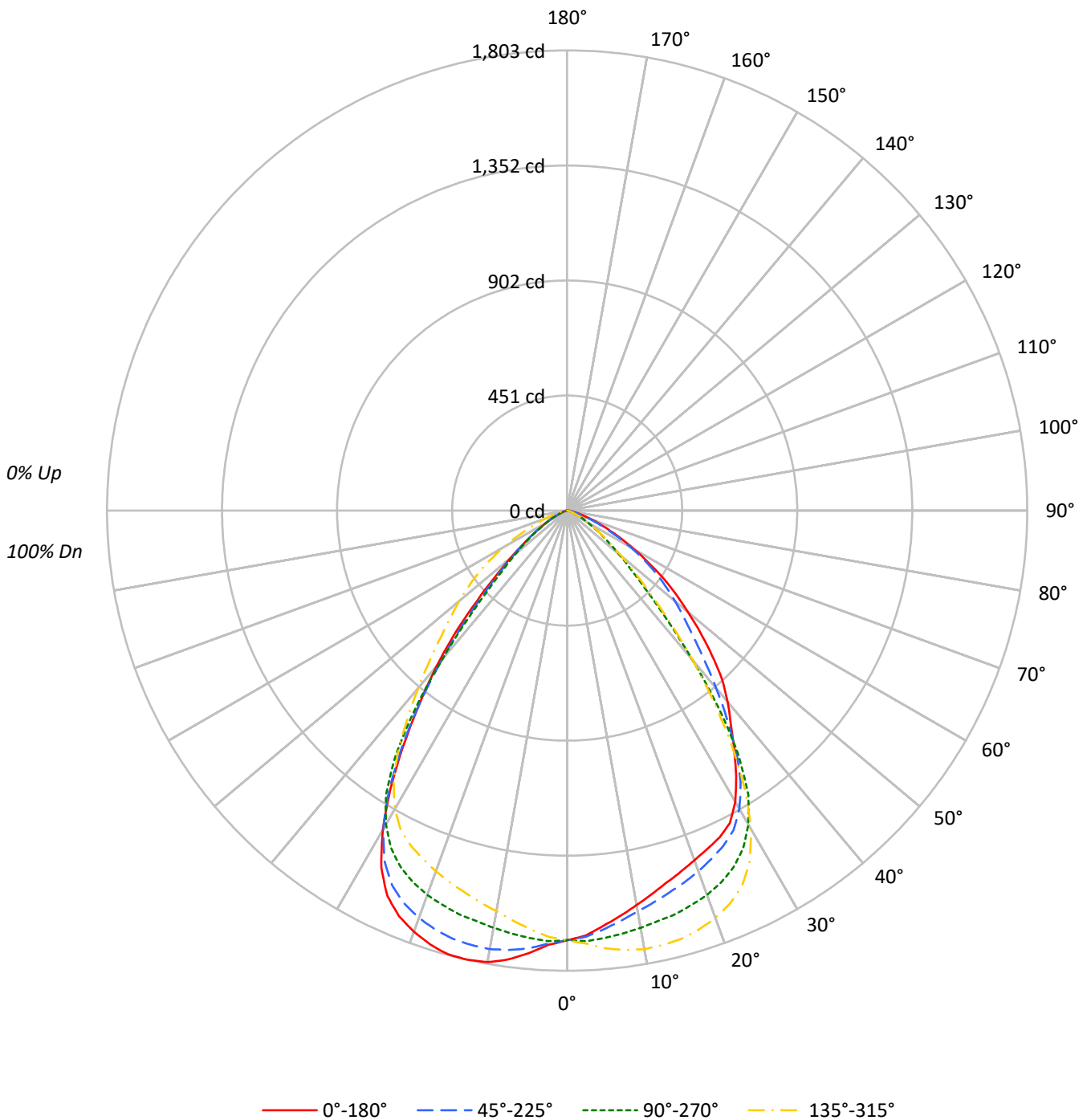
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	160.3	5.7
10°-20°	464.1	16.4
20°-30°	702.7	24.8
30°-40°	704.3	24.8
40°-50°	442.2	15.6
50°-60°	235.7	8.3
60°-70°	96.9	3.4
70°-80°	25.6	0.9
80°-90°	4.3	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°	1327.0	46.8
0°-40°	2031.2	71.6
0°-60°	2709.2	95.5
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1684	1684	1684	1684	1684	
5°	1633	1681	1741	1681	1633	154
15°	1508	1638	1800	1638	1508	427
25°	1413	1542	1666	1542	1413	648
35°	1139	1172	1112	1172	1139	714
45°	802	429	496	429	802	617
55°	456	159	168	159	456	407
65°	182	48	44	48	182	188
75°	51	10	8	10	51	58
85°	11	0	1	0	11	12
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°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1666.4	1664.7	1663.9	1665.6	1666.4	1669.7	1668.9	1670.5	1670.5	1671.3	1673.0
5°	1632.7	1631.8	1632.7	1632.7	1636.0	1639.2	1638.4	1640.9	1642.5	1646.7	1648.3
7.5°	1601.5	1601.5	1600.6	1603.9	1605.5	1610.5	1609.6	1613.8	1616.2	1620.3	1626.1
10°	1569.4	1569.4	1570.2	1572.7	1573.5	1580.9	1580.9	1586.6	1589.9	1594.0	1601.5
12.5°	1538.1	1538.1	1543.1	1541.4	1544.7	1550.5	1552.9	1558.7	1563.6	1571.8	1579.3
15°	1508.5	1508.5	1510.2	1514.3	1516.8	1524.2	1528.3	1534.9	1540.6	1548.8	1559.5
17.5°	1483.1	1482.2	1483.1	1488.0	1492.9	1499.5	1502.8	1511.0	1516.8	1527.4	1537.3
20°	1457.6	1459.2	1459.2	1463.3	1466.6	1474.8	1478.1	1487.2	1493.7	1503.6	1515.1
22.5°	1435.4	1434.6	1434.6	1440.3	1442.8	1450.2	1453.4	1461.7	1469.1	1477.3	1488.0
25°	1413.2	1411.5	1414.8	1415.6	1417.3	1425.5	1428.0	1433.7	1441.1	1448.5	1459.2
27.5°	1380.3	1378.7	1379.5	1382.8	1385.2	1391.8	1393.4	1399.2	1405.0	1411.5	1420.6
30°	1317.0	1315.4	1314.5	1320.3	1322.8	1327.7	1330.1	1340.0	1341.6	1349.1	1355.6
32.5°	1233.1	1232.3	1234.0	1238.9	1241.3	1247.9	1251.2	1257.0	1261.1	1265.2	1271.8
35°	1139.4	1137.8	1139.4	1144.4	1144.4	1150.1	1152.6	1155.0	1154.2	1155.0	1153.4
37.5°	1052.3	1051.4	1052.3	1054.7	1052.3	1054.7	1052.3	1047.4	1038.3	1028.4	1018.6
40°	978.3	979.1	974.2	977.5	968.4	966.8	957.8	945.4	927.3	907.6	879.7
42.5°	899.4	896.9	893.6	895.3	887.9	882.1	867.3	851.7	828.7	795.8	762.1
45°	802.4	801.6	799.9	799.1	794.1	788.4	776.0	758.0	732.5	698.8	658.5
47.5°	707.8	705.4	705.4	706.2	700.4	699.6	689.7	674.1	651.9	619.0	577.1
50°	617.4	616.6	618.2	621.5	617.4	615.8	609.2	598.5	578.8	550.8	511.3
52.5°	536.0	535.2	536.8	540.9	539.3	540.9	534.4	526.1	513.0	485.8	451.3
55°	456.3	456.3	456.3	461.2	461.2	461.2	457.9	453.0	440.6	420.9	388.9
57.5°	373.2	374.0	379.0	379.8	379.0	380.6	379.8	374.9	366.7	352.7	328.0
60°	303.4	303.4	305.8	308.3	307.5	308.3	308.3	305.8	297.6	286.1	266.4
62.5°	240.0	242.5	240.9	242.5	245.8	242.5	240.9	239.2	233.5	226.1	209.6
65°	181.7	183.3	183.3	184.1	182.5	183.3	180.1	177.6	174.3	166.1	155.4
67.5°	138.1	138.1	138.1	138.1	137.3	136.5	135.7	133.2	127.4	124.2	112.6
70°	106.0	101.1	101.1	101.1	101.1	102.0	99.5	96.2	94.5	88.8	80.6
72.5°	70.7	72.3	70.7	70.7	69.1	69.9	66.6	64.9	63.3	60.0	55.1
75°	51.0	46.9	48.5	49.3	46.9	48.5	45.2	41.9	41.9	39.5	37.0
77.5°	32.9	32.1	32.9	33.7	32.9	32.1	30.4	28.8	28.8	28.0	25.5
80°	23.9	23.0	23.0	23.0	22.2	23.0	21.4	21.4	19.7	18.9	17.3
82.5°	15.6	15.6	14.8	15.6	14.8	15.6	13.2	13.2	13.2	12.3	10.7
85°	10.7	9.0	9.0	9.9	8.2	9.9	9.0	8.2	7.4	7.4	6.6
87.5°	4.9	5.8	4.9	5.8	4.9	4.9	5.8	4.9	4.9	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°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1675.4	1676.2	1676.2	1679.5	1681.2	1682.0	1682.0	1688.6	1686.1	1687.8	1689.4
5°	1651.6	1656.5	1658.2	1658.2	1667.2	1670.5	1673.8	1681.2	1682.0	1686.9	1692.7
7.5°	1628.6	1634.3	1637.6	1645.0	1650.8	1656.5	1666.4	1671.3	1676.2	1682.8	1690.2
10°	1606.4	1613.0	1619.5	1625.3	1634.3	1641.7	1648.3	1659.8	1665.6	1674.6	1684.5
12.5°	1585.0	1594.0	1599.8	1609.6	1619.5	1626.1	1636.0	1646.7	1655.7	1664.7	1676.2
15°	1566.1	1576.8	1583.3	1594.0	1604.7	1613.8	1624.5	1637.6	1644.2	1654.9	1665.6
17.5°	1545.5	1557.1	1565.3	1575.1	1588.3	1598.1	1607.2	1620.3	1628.6	1640.1	1652.4
20°	1524.2	1535.7	1545.5	1555.4	1568.6	1578.4	1589.1	1602.3	1611.3	1622.8	1632.7
22.5°	1498.7	1509.4	1520.0	1531.5	1544.7	1552.9	1565.3	1576.8	1586.6	1597.3	1607.2
25°	1465.8	1479.0	1487.2	1497.8	1508.5	1517.6	1530.7	1542.2	1550.5	1560.3	1569.4
27.5°	1427.2	1437.0	1443.6	1452.6	1463.3	1471.5	1481.4	1492.9	1501.2	1510.2	1516.8
30°	1361.4	1370.4	1376.2	1382.8	1393.4	1400.9	1409.1	1419.7	1425.5	1432.1	1437.8
32.5°	1275.0	1282.5	1285.7	1290.7	1298.1	1305.5	1312.1	1321.1	1323.6	1327.7	1327.7
35°	1150.1	1151.7	1150.9	1152.6	1155.9	1160.0	1165.7	1171.5	1174.8	1174.8	1172.3
37.5°	1003.8	993.9	983.2	975.0	972.5	970.9	974.2	976.6	979.9	981.6	977.5
40°	851.7	829.5	805.6	784.3	769.5	762.9	760.4	762.1	762.1	767.8	767.8
42.5°	721.0	686.4	651.1	619.0	597.6	581.2	573.8	573.8	574.6	578.8	581.2
45°	612.5	568.9	527.8	492.4	462.8	441.5	431.6	429.1	428.3	429.9	435.7
47.5°	529.4	484.2	441.5	397.9	366.7	345.3	336.2	332.9	329.6	332.9	333.8
50°	464.5	417.6	372.4	328.8	295.9	277.0	265.5	260.6	259.8	259.8	261.4
52.5°	405.3	361.7	316.5	272.1	237.6	219.5	208.8	206.3	203.1	206.3	206.3
55°	349.4	305.8	261.4	219.5	190.7	171.8	161.9	158.7	157.0	159.5	159.5
57.5°	288.6	251.6	210.5	172.6	143.9	130.7	123.3	119.2	118.4	120.0	118.4
60°	236.8	205.5	170.2	135.7	113.5	99.5	93.7	92.1	90.4	92.1	92.1
62.5°	187.4	161.1	132.3	106.0	87.1	77.3	70.7	70.7	69.9	69.9	70.7
65°	138.9	118.4	97.8	75.6	60.8	53.4	48.5	48.5	47.7	48.5	47.7
67.5°	101.1	87.1	70.7	55.1	43.6	39.5	36.2	33.7	35.4	33.7	32.9
70°	74.0	62.5	51.0	41.9	33.7	29.6	27.1	26.3	24.7	24.7	24.7
72.5°	49.3	41.9	34.5	27.1	22.2	18.1	17.3	15.6	14.0	14.8	16.4
75°	32.9	28.0	24.7	19.7	14.8	14.8	9.9	9.9	8.2	9.9	7.4
77.5°	23.0	18.9	14.8	12.3	9.9	9.0	6.6	6.6	5.8	5.8	5.8
80°	16.4	14.0	10.7	9.0	6.6	6.6	5.8	4.9	4.1	4.1	4.9
82.5°	9.9	7.4	7.4	6.6	4.1	3.3	2.5	3.3	1.7	1.7	1.7
85°	5.8	4.9	4.1	2.5	1.7	1.7	0.8	0.0	0.8	0.8	0.0
87.5°	3.3	1.7	1.7	0.8	0.0	0.8	0.8	0.0	0.0	0.0	1.7
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°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1693.5	1692.7	1694.3	1694.3	1699.3	1698.4	1700.9	1700.9	1699.3	1700.1	1703.4
5°	1699.3	1701.7	1706.7	1710.8	1718.2	1721.5	1725.6	1729.7	1730.5	1733.0	1735.4
7.5°	1699.3	1707.5	1713.3	1720.6	1730.5	1736.3	1745.3	1752.7	1756.0	1760.1	1765.0
10°	1696.0	1704.2	1714.9	1723.1	1735.4	1744.5	1753.5	1765.0	1770.0	1776.5	1783.1
12.5°	1689.4	1698.4	1709.9	1720.6	1734.6	1742.8	1754.3	1765.0	1772.4	1781.5	1788.9
15°	1679.5	1690.2	1700.9	1711.6	1726.4	1736.3	1747.0	1759.3	1766.7	1776.5	1783.1
17.5°	1663.9	1675.4	1685.3	1695.1	1709.1	1720.6	1730.5	1742.0	1749.4	1757.6	1766.7
20°	1645.0	1655.7	1666.4	1674.6	1688.6	1698.4	1709.1	1719.8	1725.6	1727.2	1741.2
22.5°	1621.2	1628.6	1636.8	1649.9	1658.2	1667.2	1677.1	1686.9	1692.7	1701.7	1706.7
25°	1581.7	1589.1	1598.1	1603.9	1613.8	1621.2	1631.0	1641.7	1645.0	1651.6	1656.5
27.5°	1526.6	1530.7	1534.9	1539.8	1545.5	1549.6	1555.4	1560.3	1563.6	1566.9	1570.2
30°	1439.5	1439.5	1439.5	1436.2	1438.7	1441.1	1441.9	1441.1	1441.1	1440.3	1440.3
32.5°	1324.4	1317.8	1310.4	1303.8	1301.4	1298.1	1296.4	1294.0	1289.9	1287.4	1288.2
35°	1169.0	1154.2	1145.2	1137.0	1130.4	1125.5	1123.0	1120.5	1119.7	1116.4	1113.1
37.5°	975.0	964.3	957.8	952.8	947.1	942.1	942.9	943.8	946.2	944.6	945.4
40°	769.5	767.0	769.5	763.7	762.1	763.7	767.8	773.6	776.9	780.2	785.9
42.5°	585.3	589.4	595.2	595.2	597.6	601.0	605.9	614.9	619.8	625.6	632.2
45°	440.6	445.6	453.0	455.4	457.1	461.2	467.0	474.3	477.6	482.6	488.3
47.5°	339.5	342.8	346.9	351.0	355.1	356.8	362.5	362.5	366.7	370.0	371.6
50°	264.7	268.0	271.3	273.7	275.4	277.9	279.5	282.0	282.8	284.4	285.3
52.5°	207.2	211.3	211.3	212.9	215.4	217.8	217.0	217.8	218.7	218.7	221.1
55°	161.9	161.9	164.4	164.4	166.1	165.2	166.1	166.1	166.1	166.1	166.9
57.5°	120.8	121.7	124.2	122.5	121.7	123.3	121.7	123.3	122.5	124.2	121.7
60°	92.9	92.9	93.7	93.7	94.5	94.5	94.5	93.7	93.7	92.9	92.9
62.5°	69.9	70.7	71.5	70.7	70.7	70.7	69.9	69.9	69.1	68.2	68.2
65°	46.9	46.1	47.7	46.1	46.9	46.9	46.1	46.9	44.4	45.2	44.4
67.5°	33.7	32.9	32.1	32.9	32.1	31.2	31.2	32.1	32.9	30.4	30.4
70°	22.2	23.0	22.2	23.0	23.9	23.9	23.0	22.2	23.0	21.4	22.2
72.5°	14.0	14.0	14.0	14.0	14.0	14.8	14.8	14.8	13.2	13.2	12.3
75°	6.6	9.0	7.4	6.6	9.0	9.0	8.2	8.2	7.4	7.4	7.4
77.5°	6.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.1	4.9	4.1
80°	3.3	3.3	3.3	2.5	3.3	3.3	4.1	3.3	3.3	2.5	4.1
82.5°	1.7	1.7	1.7	0.0	0.8	1.7	1.7	0.8	1.7	1.7	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: P245878

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1702.6	1701.7	1702.6	1703.4	1702.6	1701.7	1702.6	1703.4	1700.1	1699.3	1700.9
5°	1738.7	1738.7	1740.4	1741.2	1740.4	1738.7	1738.7	1735.4	1733.0	1730.5	1729.7
7.5°	1770.0	1771.6	1773.2	1774.1	1773.2	1771.6	1770.0	1765.0	1760.1	1756.0	1752.7
10°	1788.9	1791.3	1794.6	1796.3	1794.6	1791.3	1788.9	1783.1	1776.5	1770.0	1765.0
12.5°	1797.1	1799.6	1803.7	1802.9	1803.7	1799.6	1797.1	1788.9	1781.5	1772.4	1765.0
15°	1791.3	1794.6	1798.7	1800.4	1798.7	1794.6	1791.3	1783.1	1776.5	1766.7	1759.3
17.5°	1773.2	1778.2	1780.7	1783.1	1780.7	1778.2	1773.2	1766.7	1757.6	1749.4	1742.0
20°	1748.6	1751.9	1755.2	1756.0	1755.2	1751.9	1748.6	1741.2	1727.2	1725.6	1719.8
22.5°	1713.3	1715.7	1723.1	1720.6	1723.1	1715.7	1713.3	1706.7	1701.7	1692.7	1686.9
25°	1662.3	1664.7	1665.6	1666.4	1665.6	1664.7	1662.3	1656.5	1651.6	1645.0	1641.7
27.5°	1574.3	1574.3	1575.9	1576.8	1575.9	1574.3	1574.3	1570.2	1566.9	1563.6	1560.3
30°	1441.1	1441.1	1441.1	1445.3	1441.1	1441.1	1441.1	1440.3	1440.3	1441.1	1441.1
32.5°	1287.4	1285.7	1284.1	1285.7	1284.1	1285.7	1287.4	1288.2	1287.4	1289.9	1294.0
35°	1113.1	1112.3	1114.8	1111.5	1114.8	1112.3	1113.1	1113.1	1116.4	1119.7	1120.5
37.5°	946.2	944.6	947.9	944.6	947.9	944.6	946.2	945.4	944.6	946.2	943.8
40°	787.6	789.2	789.2	795.8	789.2	789.2	787.6	785.9	780.2	776.9	773.6
42.5°	635.5	640.4	638.8	643.7	638.8	640.4	635.5	632.2	625.6	619.8	614.9
45°	491.6	494.9	494.9	496.5	494.9	494.9	491.6	488.3	482.6	477.6	474.3
47.5°	377.3	377.3	377.3	378.2	377.3	377.3	377.3	371.6	370.0	366.7	362.5
50°	286.9	287.7	288.6	289.4	288.6	287.7	286.9	285.3	284.4	282.8	282.0
52.5°	220.3	221.1	219.5	221.1	219.5	221.1	220.3	221.1	218.7	218.7	217.8
55°	166.9	166.1	166.9	167.7	166.9	166.1	166.9	166.9	166.1	166.1	166.1
57.5°	122.5	120.8	120.8	120.8	120.8	120.8	122.5	121.7	124.2	122.5	123.3
60°	91.3	92.1	92.1	92.9	92.1	92.1	91.3	92.9	92.9	93.7	93.7
62.5°	67.4	69.9	68.2	69.9	68.2	69.9	67.4	68.2	68.2	69.1	69.9
65°	43.6	43.6	43.6	44.4	43.6	43.6	43.6	44.4	45.2	44.4	46.9
67.5°	29.6	30.4	32.1	31.2	32.1	30.4	29.6	30.4	30.4	32.9	32.1
70°	23.9	21.4	21.4	23.9	21.4	21.4	23.9	22.2	21.4	23.0	22.2
72.5°	14.0	12.3	14.0	14.0	14.0	12.3	14.0	12.3	13.2	13.2	14.8
75°	7.4	6.6	5.8	8.2	5.8	6.6	7.4	7.4	7.4	7.4	8.2
77.5°	4.9	4.1	5.8	5.8	5.8	4.1	4.9	4.1	4.9	4.1	4.9
80°	2.5	3.3	2.5	4.1	2.5	3.3	2.5	4.1	2.5	3.3	3.3
82.5°	0.8	1.7	1.7	1.7	1.7	1.7	0.8	0.8	1.7	1.7	0.8
85°	0.0	1.7	0.8	0.8	0.8	1.7	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: P245878

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1700.9	1698.4	1699.3	1694.3	1694.3	1692.7	1693.5	1689.4	1687.8	1686.1	1688.6
5°	1725.6	1721.5	1718.2	1710.8	1706.7	1701.7	1699.3	1692.7	1686.9	1682.0	1681.2
7.5°	1745.3	1736.3	1730.5	1720.6	1713.3	1707.5	1699.3	1690.2	1682.8	1676.2	1671.3
10°	1753.5	1744.5	1735.4	1723.1	1714.9	1704.2	1696.0	1684.5	1674.6	1665.6	1659.8
12.5°	1754.3	1742.8	1734.6	1720.6	1709.9	1698.4	1689.4	1676.2	1664.7	1655.7	1646.7
15°	1747.0	1736.3	1726.4	1711.6	1700.9	1690.2	1679.5	1665.6	1654.9	1644.2	1637.6
17.5°	1730.5	1720.6	1709.1	1695.1	1685.3	1675.4	1663.9	1652.4	1640.1	1628.6	1620.3
20°	1709.1	1698.4	1688.6	1674.6	1666.4	1655.7	1645.0	1632.7	1622.8	1611.3	1602.3
22.5°	1677.1	1667.2	1658.2	1649.9	1636.8	1628.6	1621.2	1607.2	1597.3	1586.6	1576.8
25°	1631.0	1621.2	1613.8	1603.9	1598.1	1589.1	1581.7	1569.4	1560.3	1550.5	1542.2
27.5°	1555.4	1549.6	1545.5	1539.8	1534.9	1530.7	1526.6	1516.8	1510.2	1501.2	1492.9
30°	1441.9	1441.1	1438.7	1436.2	1439.5	1439.5	1439.5	1437.8	1432.1	1425.5	1419.7
32.5°	1296.4	1298.1	1301.4	1303.8	1310.4	1317.8	1324.4	1327.7	1327.7	1323.6	1321.1
35°	1123.0	1125.5	1130.4	1137.0	1145.2	1154.2	1169.0	1172.3	1174.8	1174.8	1171.5
37.5°	942.9	942.1	947.1	952.8	957.8	964.3	975.0	977.5	981.6	979.9	976.6
40°	767.8	763.7	762.1	763.7	769.5	767.0	769.5	767.8	767.8	762.1	762.1
42.5°	605.9	601.0	597.6	595.2	595.2	589.4	585.3	581.2	578.8	574.6	573.8
45°	467.0	461.2	457.1	455.4	453.0	445.6	440.6	435.7	429.9	428.3	429.1
47.5°	362.5	356.8	355.1	351.0	346.9	342.8	339.5	333.8	332.9	329.6	332.9
50°	279.5	277.9	275.4	273.7	271.3	268.0	264.7	261.4	259.8	259.8	260.6
52.5°	217.0	217.8	215.4	212.9	211.3	211.3	207.2	206.3	206.3	203.1	206.3
55°	166.1	165.2	166.1	164.4	164.4	161.9	161.9	159.5	159.5	157.0	158.7
57.5°	121.7	123.3	121.7	122.5	124.2	121.7	120.8	118.4	120.0	118.4	119.2
60°	94.5	94.5	94.5	93.7	93.7	92.9	92.9	92.1	92.1	90.4	92.1
62.5°	69.9	70.7	70.7	70.7	71.5	70.7	69.9	70.7	69.9	69.9	70.7
65°	46.1	46.9	46.9	46.1	47.7	46.1	46.9	47.7	48.5	47.7	48.5
67.5°	31.2	31.2	32.1	32.9	32.1	32.9	33.7	32.9	33.7	35.4	33.7
70°	23.0	23.9	23.9	23.0	22.2	23.0	22.2	24.7	24.7	24.7	26.3
72.5°	14.8	14.8	14.0	14.0	14.0	14.0	14.0	16.4	14.8	14.0	15.6
75°	8.2	9.0	9.0	6.6	7.4	9.0	6.6	7.4	9.9	8.2	9.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	6.6	5.8	5.8	5.8	6.6
80°	4.1	3.3	3.3	2.5	3.3	3.3	3.3	4.9	4.1	4.1	4.9
82.5°	1.7	1.7	0.8	0.0	1.7	1.7	1.7	1.7	1.7	1.7	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	1.7	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 ER8B409727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1682.0	1682.0	1681.2	1679.5	1676.2	1676.2	1675.4	1673.0	1671.3	1670.5	1670.5
5°	1673.8	1670.5	1667.2	1658.2	1658.2	1656.5	1651.6	1648.3	1646.7	1642.5	1640.9
7.5°	1666.4	1656.5	1650.8	1645.0	1637.6	1634.3	1628.6	1626.1	1620.3	1616.2	1613.8
10°	1648.3	1641.7	1634.3	1625.3	1619.5	1613.0	1606.4	1601.5	1594.0	1589.9	1586.6
12.5°	1636.0	1626.1	1619.5	1609.6	1599.8	1594.0	1585.0	1579.3	1571.8	1563.6	1558.7
15°	1624.5	1613.8	1604.7	1594.0	1583.3	1576.8	1566.1	1559.5	1548.8	1540.6	1534.9
17.5°	1607.2	1598.1	1588.3	1575.1	1565.3	1557.1	1545.5	1537.3	1527.4	1516.8	1511.0
20°	1589.1	1578.4	1568.6	1555.4	1545.5	1535.7	1524.2	1515.1	1503.6	1493.7	1487.2
22.5°	1565.3	1552.9	1544.7	1531.5	1520.0	1509.4	1498.7	1488.0	1477.3	1469.1	1461.7
25°	1530.7	1517.6	1508.5	1497.8	1487.2	1479.0	1465.8	1459.2	1448.5	1441.1	1433.7
27.5°	1481.4	1471.5	1463.3	1452.6	1443.6	1437.0	1427.2	1420.6	1411.5	1405.0	1399.2
30°	1409.1	1400.9	1393.4	1382.8	1376.2	1370.4	1361.4	1355.6	1349.1	1341.6	1340.0
32.5°	1312.1	1305.5	1298.1	1290.7	1285.7	1282.5	1275.0	1271.8	1265.2	1261.1	1257.0
35°	1165.7	1160.0	1155.9	1152.6	1150.9	1151.7	1150.1	1153.4	1155.0	1154.2	1155.0
37.5°	974.2	970.9	972.5	975.0	983.2	993.9	1003.8	1018.6	1028.4	1038.3	1047.4
40°	760.4	762.9	769.5	784.3	805.6	829.5	851.7	879.7	907.6	927.3	945.4
42.5°	573.8	581.2	597.6	619.0	651.1	686.4	721.0	762.1	795.8	828.7	851.7
45°	431.6	441.5	462.8	492.4	527.8	568.9	612.5	658.5	698.8	732.5	758.0
47.5°	336.2	345.3	366.7	397.9	441.5	484.2	529.4	577.1	619.0	651.9	674.1
50°	265.5	277.0	295.9	328.8	372.4	417.6	464.5	511.3	550.8	578.8	598.5
52.5°	208.8	219.5	237.6	272.1	316.5	361.7	405.3	451.3	485.8	513.0	526.1
55°	161.9	171.8	190.7	219.5	261.4	305.8	349.4	388.9	420.9	440.6	453.0
57.5°	123.3	130.7	143.9	172.6	210.5	251.6	288.6	328.0	352.7	366.7	374.9
60°	93.7	99.5	113.5	135.7	170.2	205.5	236.8	266.4	286.1	297.6	305.8
62.5°	70.7	77.3	87.1	106.0	132.3	161.1	187.4	209.6	226.1	233.5	239.2
65°	48.5	53.4	60.8	75.6	97.8	118.4	138.9	155.4	166.1	174.3	177.6
67.5°	36.2	39.5	43.6	55.1	70.7	87.1	101.1	112.6	124.2	127.4	133.2
70°	27.1	29.6	33.7	41.9	51.0	62.5	74.0	80.6	88.8	94.5	96.2
72.5°	17.3	18.1	22.2	27.1	34.5	41.9	49.3	55.1	60.0	63.3	64.9
75°	9.9	14.8	14.8	19.7	24.7	28.0	32.9	37.0	39.5	41.9	41.9
77.5°	6.6	9.0	9.9	12.3	14.8	18.9	23.0	25.5	28.0	28.8	28.8
80°	5.8	6.6	6.6	9.0	10.7	14.0	16.4	17.3	18.9	19.7	21.4
82.5°	2.5	3.3	4.1	6.6	7.4	7.4	9.9	10.7	12.3	13.2	13.2
85°	0.8	1.7	1.7	2.5	4.1	4.9	5.8	6.6	7.4	7.4	8.2
87.5°	0.8	0.8	0.0	0.8	1.7	1.7	3.3	3.3	3.3	4.9	4.9
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 ER8B409727 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1668.9	1669.7	1666.4	1665.6	1663.9	1664.7	1666.4
5°	1638.4	1639.2	1636.0	1632.7	1632.7	1631.8	1632.7
7.5°	1609.6	1610.5	1605.5	1603.9	1600.6	1601.5	1601.5
10°	1580.9	1580.9	1573.5	1572.7	1570.2	1569.4	1569.4
12.5°	1552.9	1550.5	1544.7	1541.4	1543.1	1538.1	1538.1
15°	1528.3	1524.2	1516.8	1514.3	1510.2	1508.5	1508.5
17.5°	1502.8	1499.5	1492.9	1488.0	1483.1	1482.2	1483.1
20°	1478.1	1474.8	1466.6	1463.3	1459.2	1459.2	1457.6
22.5°	1453.4	1450.2	1442.8	1440.3	1434.6	1434.6	1435.4
25°	1428.0	1425.5	1417.3	1415.6	1414.8	1411.5	1413.2
27.5°	1393.4	1391.8	1385.2	1382.8	1379.5	1378.7	1380.3
30°	1330.1	1327.7	1322.8	1320.3	1314.5	1315.4	1317.0
32.5°	1251.2	1247.9	1241.3	1238.9	1234.0	1232.3	1233.1
35°	1152.6	1150.1	1144.4	1144.4	1139.4	1137.8	1139.4
37.5°	1052.3	1054.7	1052.3	1054.7	1052.3	1051.4	1052.3
40°	957.8	966.8	968.4	977.5	974.2	979.1	978.3
42.5°	867.3	882.1	887.9	895.3	893.6	896.9	899.4
45°	776.0	788.4	794.1	799.1	799.9	801.6	802.4
47.5°	689.7	699.6	700.4	706.2	705.4	705.4	707.8
50°	609.2	615.8	617.4	621.5	618.2	616.6	617.4
52.5°	534.4	540.9	539.3	540.9	536.8	535.2	536.0
55°	457.9	461.2	461.2	461.2	456.3	456.3	456.3
57.5°	379.8	380.6	379.0	379.8	379.0	374.0	373.2
60°	308.3	308.3	307.5	308.3	305.8	303.4	303.4
62.5°	240.9	242.5	245.8	242.5	240.9	242.5	240.0
65°	180.1	183.3	182.5	184.1	183.3	183.3	181.7
67.5°	135.7	136.5	137.3	138.1	138.1	138.1	138.1
70°	99.5	102.0	101.1	101.1	101.1	101.1	106.0
72.5°	66.6	69.9	69.1	70.7	70.7	72.3	70.7
75°	45.2	48.5	46.9	49.3	48.5	46.9	51.0
77.5°	30.4	32.1	32.9	33.7	32.9	32.1	32.9
80°	21.4	23.0	22.2	23.0	23.0	23.0	23.9
82.5°	13.2	15.6	14.8	15.6	14.8	15.6	15.6
85°	9.0	9.9	8.2	9.9	9.0	9.0	10.7
87.5°	5.8	4.9	4.9	5.8	4.9	5.8	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)