

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: P244959

Luminaire Tested: **LD8B30D010 ER8B30830 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244959  
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: LD8B30D010 ER8B30830 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2949.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

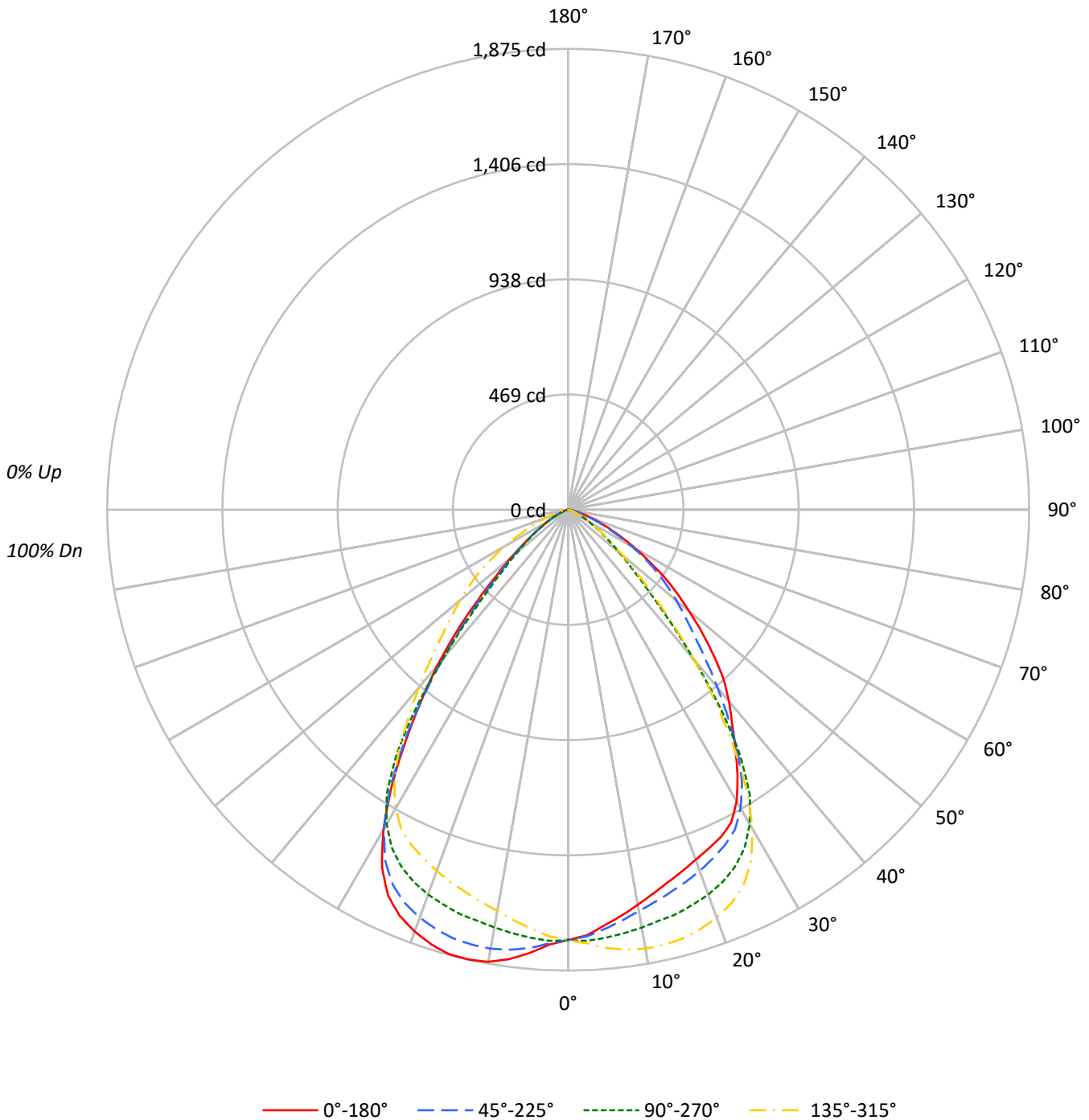
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	53985	53985	53985	53985
5°	52551	54114	56046	54114
10°	51098	54041	58485	54041
15°	50076	54364	59765	54364
20°	49735	54674	59921	54674
25°	49998	54564	58957	54564
30°	48760	52566	53510	52566
35°	44601	45854	43509	45854
40°	40950	31897	33310	31897
45°	36383	19458	22515	19458
50°	30799	13001	14435	13001
55°	25510	8871	9376	8871
60°	19452	5902	5958	5902
65°	13783	3677	3371	3677
70°	9945	2461	2236	2461
75°	6315	1227	1025	1227
80°	4404	906	764	906
85°	3927	0	283	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	5.7
10°-20°	482.5	16.4
20°-30°	730.7	24.8
30°-40°	732.3	24.8
40°-50°	459.9	15.6
50°-60°	245.1	8.3
60°-70°	100.8	3.4
70°-80°	26.6	0.9
80°-90°	4.5	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°	1379.9	46.8
0°-40°	2112.2	71.6
0°-60°	2817.1	95.5
0°-90°	2949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1751	1751	1751	1751	1751	
5°	1698	1748	1811	1748	1698	160
15°	1569	1703	1872	1703	1569	444
25°	1470	1604	1733	1604	1470	674
35°	1185	1218	1156	1218	1185	742
45°	834	446	516	446	834	642
55°	474	165	174	165	474	423
65°	189	50	46	50	189	196
75°	53	10	9	10	53	60
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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1732.8	1731.1	1730.2	1731.9	1732.8	1736.2	1735.4	1737.0	1737.0	1737.9	1739.6
5°	1697.7	1696.9	1697.7	1697.7	1701.2	1704.6	1703.7	1706.3	1708.0	1712.3	1714.0
7.5°	1665.3	1665.3	1664.4	1667.8	1669.5	1674.7	1673.8	1678.1	1680.6	1684.9	1690.9
10°	1631.9	1631.9	1632.7	1635.3	1636.2	1643.9	1643.9	1649.8	1653.3	1657.6	1665.3
12.5°	1599.4	1599.4	1604.6	1602.8	1606.3	1612.2	1614.8	1620.8	1625.9	1634.5	1642.2
15°	1568.6	1568.6	1570.4	1574.6	1577.2	1584.9	1589.2	1596.0	1602.0	1610.5	1621.7
17.5°	1542.1	1541.3	1542.1	1547.3	1552.4	1559.2	1562.7	1571.2	1577.2	1588.3	1598.6
20°	1515.6	1517.4	1517.4	1521.6	1525.0	1533.6	1537.0	1546.4	1553.3	1563.5	1575.5
22.5°	1492.6	1491.7	1491.7	1497.7	1500.3	1507.9	1511.4	1519.9	1527.6	1536.2	1547.3
25°	1469.5	1467.8	1471.2	1472.1	1473.7	1482.3	1484.9	1490.8	1498.5	1506.3	1517.4
27.5°	1435.3	1433.6	1434.4	1437.9	1440.4	1447.2	1449.0	1455.0	1460.9	1467.8	1477.2
30°	1369.4	1367.8	1366.9	1372.9	1375.5	1380.6	1383.1	1393.4	1395.1	1402.8	1409.6
32.5°	1282.3	1281.4	1283.1	1288.2	1290.8	1297.7	1301.1	1307.1	1311.3	1315.6	1322.4
35°	1184.8	1183.1	1184.8	1190.0	1190.0	1195.9	1198.5	1201.0	1200.2	1201.0	1199.4
37.5°	1094.2	1093.3	1094.2	1096.8	1094.2	1096.8	1094.2	1089.1	1079.7	1069.4	1059.1
40°	1017.3	1018.1	1013.0	1016.4	1007.0	1005.3	995.9	983.1	964.3	943.8	914.7
42.5°	935.2	932.6	929.2	930.9	923.3	917.2	901.9	885.6	861.7	827.5	792.4
45°	834.3	833.5	831.8	830.9	825.8	819.8	807.0	788.2	761.7	726.6	684.7
47.5°	736.0	733.5	733.5	734.3	728.3	727.5	717.2	701.0	677.9	643.7	600.1
50°	642.0	641.1	642.9	646.3	642.0	640.3	633.5	622.3	601.8	572.8	531.7
52.5°	557.4	556.5	558.2	562.5	560.8	562.5	555.7	547.1	533.4	505.2	469.3
55°	474.5	474.5	474.5	479.6	479.6	479.6	476.1	471.0	458.2	437.7	404.4
57.5°	388.1	388.9	394.1	394.9	394.1	395.8	394.9	389.8	381.3	366.7	341.1
60°	315.4	315.4	318.0	320.6	319.7	320.6	320.6	318.0	309.5	297.5	277.0
62.5°	249.6	252.2	250.5	252.2	255.6	252.2	250.5	248.8	242.8	235.1	218.0
65°	188.9	190.6	190.6	191.5	189.8	190.6	187.2	184.7	181.2	172.7	161.6
67.5°	143.6	143.6	143.6	143.6	142.8	141.9	141.1	138.5	132.5	129.1	117.1
70°	110.3	105.1	105.1	105.1	105.1	106.0	103.4	100.0	98.3	92.3	83.8
72.5°	73.5	75.2	73.5	73.5	71.8	72.7	69.2	67.5	65.8	62.4	57.3
75°	53.0	48.7	50.4	51.3	48.7	50.4	47.0	43.6	43.6	41.0	38.5
77.5°	34.2	33.4	34.2	35.0	34.2	33.4	31.6	29.9	29.9	29.1	26.5
80°	24.8	23.9	23.9	23.9	23.1	23.9	22.2	22.2	20.5	19.7	17.9
82.5°	16.3	16.3	15.4	16.3	15.4	16.3	13.7	13.7	13.7	12.8	11.1
85°	11.1	9.4	9.4	10.3	8.6	10.3	9.4	8.6	7.7	7.7	6.8
87.5°	5.1	6.0	5.1	6.0	5.1	5.1	6.0	5.1	5.1	3.4	3.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1742.2	1743.0	1743.0	1746.5	1748.2	1749.0	1749.0	1755.9	1753.3	1755.0	1756.7
5°	1717.4	1722.5	1724.2	1724.2	1733.6	1737.0	1740.5	1748.2	1749.0	1754.1	1760.1
7.5°	1693.4	1699.4	1702.9	1710.5	1716.5	1722.5	1732.8	1737.9	1743.0	1749.9	1757.6
10°	1670.4	1677.2	1684.0	1690.0	1699.4	1707.1	1714.0	1725.9	1731.9	1741.3	1751.6
12.5°	1648.2	1657.6	1663.5	1673.8	1684.0	1690.9	1701.2	1712.3	1721.7	1731.1	1743.0
15°	1628.5	1639.6	1646.4	1657.6	1668.7	1678.1	1689.2	1702.9	1709.7	1720.8	1731.9
17.5°	1607.1	1619.1	1627.6	1637.9	1651.6	1661.8	1671.2	1684.9	1693.4	1705.4	1718.3
20°	1584.9	1596.9	1607.1	1617.4	1631.1	1641.3	1652.4	1666.1	1675.5	1687.5	1697.7
22.5°	1558.4	1569.5	1580.6	1592.6	1606.3	1614.8	1627.6	1639.6	1649.8	1661.0	1671.2
25°	1524.2	1537.9	1546.4	1557.5	1568.6	1578.0	1591.7	1603.7	1612.2	1622.5	1631.9
27.5°	1484.0	1494.3	1501.1	1510.5	1521.6	1530.2	1540.4	1552.4	1561.0	1570.4	1577.2
30°	1415.6	1425.0	1431.0	1437.9	1449.0	1456.7	1465.2	1476.3	1482.3	1489.2	1495.1
32.5°	1325.9	1333.6	1337.0	1342.1	1349.8	1357.5	1364.3	1373.7	1376.3	1380.6	1380.6
35°	1195.9	1197.6	1196.8	1198.5	1201.9	1206.2	1212.2	1218.1	1221.6	1221.6	1219.0
37.5°	1043.8	1033.5	1022.4	1013.9	1011.3	1009.6	1013.0	1015.5	1019.0	1020.7	1016.4
40°	885.6	862.6	837.7	815.5	800.1	793.3	790.7	792.4	792.4	798.4	798.4
42.5°	749.7	713.8	677.1	643.7	621.5	604.4	596.7	596.7	597.5	601.8	604.4
45°	636.9	591.6	548.8	512.1	481.3	459.0	448.8	446.2	445.4	447.1	453.1
47.5°	550.5	503.5	459.0	413.8	381.3	359.0	349.6	346.2	342.8	346.2	347.1
50°	483.0	434.3	387.3	341.9	307.7	288.1	276.1	271.0	270.1	270.1	271.8
52.5°	421.4	376.1	329.1	283.0	247.0	228.3	217.1	214.6	211.2	214.6	214.6
55°	363.3	318.0	271.8	228.3	198.3	178.7	168.4	165.0	163.3	165.8	165.8
57.5°	300.1	261.6	218.9	179.5	149.6	135.9	128.2	124.0	123.1	124.8	123.1
60°	246.2	213.7	177.0	141.1	118.0	103.4	97.5	95.7	94.0	95.7	95.7
62.5°	194.9	167.6	137.6	110.3	90.6	80.4	73.5	73.5	72.7	72.7	73.5
65°	144.5	123.1	101.7	78.6	63.3	55.6	50.4	50.4	49.6	50.4	49.6
67.5°	105.1	90.6	73.5	57.3	45.3	41.0	37.6	35.0	36.8	35.0	34.2
70°	77.0	65.0	53.0	43.6	35.0	30.8	28.2	27.3	25.7	25.7	25.7
72.5°	51.3	43.6	35.9	28.2	23.1	18.8	17.9	16.3	14.5	15.4	17.1
75°	34.2	29.1	25.7	20.5	15.4	15.4	10.3	10.3	8.6	10.3	7.7
77.5°	23.9	19.7	15.4	12.8	10.3	9.4	6.8	6.8	6.0	6.0	6.0
80°	17.1	14.5	11.1	9.4	6.8	6.8	6.0	5.1	4.3	4.3	5.1
82.5°	10.3	7.7	7.7	6.8	4.3	3.4	2.6	3.4	1.7	1.7	1.7
85°	6.0	5.1	4.3	2.6	1.7	1.7	0.8	0.0	0.8	0.8	0.0
87.5°	3.4	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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1761.0	1760.1	1761.8	1761.8	1767.0	1766.1	1768.7	1768.7	1767.0	1767.8	1771.2
5°	1767.0	1769.6	1774.7	1778.9	1786.6	1790.1	1794.3	1798.6	1799.5	1802.0	1804.6
7.5°	1767.0	1775.5	1781.5	1789.2	1799.5	1805.4	1814.8	1822.5	1826.0	1830.2	1835.4
10°	1763.5	1772.1	1783.2	1791.8	1804.6	1814.0	1823.4	1835.4	1840.5	1847.3	1854.2
12.5°	1756.7	1766.1	1778.1	1789.2	1803.7	1812.3	1824.2	1835.4	1843.1	1852.5	1860.2
15°	1746.5	1757.6	1768.7	1779.8	1795.2	1805.4	1816.6	1829.4	1837.1	1847.3	1854.2
17.5°	1730.2	1742.2	1752.5	1762.7	1777.2	1789.2	1799.5	1811.4	1819.1	1827.7	1837.1
20°	1710.5	1721.7	1732.8	1741.3	1755.9	1766.1	1777.2	1788.3	1794.3	1796.0	1810.6
22.5°	1685.8	1693.4	1702.0	1715.7	1724.2	1733.6	1743.9	1754.1	1760.1	1769.6	1774.7
25°	1644.7	1652.4	1661.8	1667.8	1678.1	1685.8	1696.0	1707.1	1710.5	1717.4	1722.5
27.5°	1587.5	1591.7	1596.0	1601.1	1607.1	1611.4	1617.4	1622.5	1625.9	1629.3	1632.7
30°	1496.8	1496.8	1496.8	1493.4	1496.0	1498.5	1499.4	1498.5	1498.5	1497.7	1497.7
32.5°	1377.2	1370.3	1362.6	1355.8	1353.2	1349.8	1348.1	1345.5	1341.3	1338.7	1339.5
35°	1215.6	1200.2	1190.8	1182.3	1175.4	1170.3	1167.7	1165.2	1164.3	1160.9	1157.5
37.5°	1013.9	1002.7	995.9	990.8	984.8	979.7	980.5	981.4	983.9	982.2	983.1
40°	800.1	797.6	800.1	794.2	792.4	794.2	798.4	804.4	807.8	811.3	817.2
42.5°	608.7	612.9	618.9	618.9	621.5	624.9	630.0	639.4	644.5	650.5	657.4
45°	458.2	463.3	471.0	473.6	475.3	479.6	485.6	493.2	496.7	501.8	507.8
47.5°	353.1	356.5	360.7	365.0	369.3	371.0	377.0	377.0	381.3	384.7	386.4
50°	275.3	278.7	282.1	284.7	286.4	288.9	290.6	293.2	294.1	295.8	296.6
52.5°	215.4	219.7	219.7	221.4	224.0	226.5	225.7	226.5	227.4	227.4	229.9
55°	168.4	168.4	171.0	171.0	172.7	171.8	172.7	172.7	172.7	172.7	173.5
57.5°	125.7	126.5	129.1	127.4	126.5	128.2	126.5	128.2	127.4	129.1	126.5
60°	96.6	96.6	97.5	97.5	98.3	98.3	98.3	97.5	97.5	96.6	96.6
62.5°	72.7	73.5	74.4	73.5	73.5	73.5	72.7	72.7	71.8	70.9	70.9
65°	48.7	47.9	49.6	47.9	48.7	48.7	47.9	48.7	46.2	47.0	46.2
67.5°	35.0	34.2	33.4	34.2	33.4	32.5	32.5	33.4	34.2	31.6	31.6
70°	23.1	23.9	23.1	23.9	24.8	24.8	23.9	23.1	23.9	22.2	23.1
72.5°	14.5	14.5	14.5	14.5	14.5	15.4	15.4	15.4	13.7	13.7	12.8
75°	6.8	9.4	7.7	6.8	9.4	9.4	8.6	8.6	7.7	7.7	7.7
77.5°	6.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.3	5.1	4.3
80°	3.4	3.4	3.4	2.6	3.4	3.4	4.3	3.4	3.4	2.6	4.3
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: P244959

CATALOG NUMBER: LD8B30D010 ER8B30830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1770.4	1769.6	1770.4	1771.2	1770.4	1769.6	1770.4	1771.2	1767.8	1767.0	1768.7
5°	1808.0	1808.0	1809.7	1810.6	1809.7	1808.0	1808.0	1804.6	1802.0	1799.5	1798.6
7.5°	1840.5	1842.2	1843.9	1844.7	1843.9	1842.2	1840.5	1835.4	1830.2	1826.0	1822.5
10°	1860.2	1862.7	1866.1	1867.8	1866.1	1862.7	1860.2	1854.2	1847.3	1840.5	1835.4
12.5°	1868.7	1871.3	1875.5	1874.7	1875.5	1871.3	1868.7	1860.2	1852.5	1843.1	1835.4
15°	1862.7	1866.1	1870.4	1872.1	1870.4	1866.1	1862.7	1854.2	1847.3	1837.1	1829.4
17.5°	1843.9	1849.0	1851.6	1854.2	1851.6	1849.0	1843.9	1837.1	1827.7	1819.1	1811.4
20°	1818.3	1821.7	1825.1	1826.0	1825.1	1821.7	1818.3	1810.6	1796.0	1794.3	1788.3
22.5°	1781.5	1784.1	1791.8	1789.2	1791.8	1784.1	1781.5	1774.7	1769.6	1760.1	1754.1
25°	1728.5	1731.1	1731.9	1732.8	1731.9	1731.1	1728.5	1722.5	1717.4	1710.5	1707.1
27.5°	1637.0	1637.0	1638.7	1639.6	1638.7	1637.0	1637.0	1632.7	1629.3	1625.9	1622.5
30°	1498.5	1498.5	1498.5	1502.8	1498.5	1498.5	1498.5	1497.7	1497.7	1498.5	1498.5
32.5°	1338.7	1337.0	1335.3	1337.0	1335.3	1337.0	1338.7	1339.5	1338.7	1341.3	1345.5
35°	1157.5	1156.6	1159.2	1155.8	1159.2	1156.6	1157.5	1157.5	1160.9	1164.3	1165.2
37.5°	983.9	982.2	985.6	982.2	985.6	982.2	983.9	983.1	982.2	983.9	981.4
40°	819.0	820.6	820.6	827.5	820.6	820.6	819.0	817.2	811.3	807.8	804.4
42.5°	660.8	665.9	664.2	669.3	664.2	665.9	660.8	657.4	650.5	644.5	639.4
45°	511.2	514.6	514.6	516.3	514.6	514.6	511.2	507.8	501.8	496.7	493.2
47.5°	392.4	392.4	392.4	393.2	392.4	392.4	392.4	386.4	384.7	381.3	377.0
50°	298.3	299.2	300.1	300.9	300.1	299.2	298.3	296.6	295.8	294.1	293.2
52.5°	229.1	229.9	228.3	229.9	228.3	229.9	229.1	229.9	227.4	227.4	226.5
55°	173.5	172.7	173.5	174.4	173.5	172.7	173.5	173.5	172.7	172.7	172.7
57.5°	127.4	125.7	125.7	125.7	125.7	125.7	127.4	126.5	129.1	127.4	128.2
60°	94.9	95.7	95.7	96.6	95.7	95.7	94.9	96.6	96.6	97.5	97.5
62.5°	70.1	72.7	70.9	72.7	70.9	72.7	70.1	70.9	70.9	71.8	72.7
65°	45.3	45.3	45.3	46.2	45.3	45.3	45.3	46.2	47.0	46.2	48.7
67.5°	30.8	31.6	33.4	32.5	33.4	31.6	30.8	31.6	31.6	34.2	33.4
70°	24.8	22.2	22.2	24.8	22.2	22.2	24.8	23.1	22.2	23.9	23.1
72.5°	14.5	12.8	14.5	14.5	14.5	12.8	14.5	12.8	13.7	13.7	15.4
75°	7.7	6.8	6.0	8.6	6.0	6.8	7.7	7.7	7.7	7.7	8.6
77.5°	5.1	4.3	6.0	6.0	6.0	4.3	5.1	4.3	5.1	4.3	5.1
80°	2.6	3.4	2.6	4.3	2.6	3.4	2.6	4.3	2.6	3.4	3.4
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: P244959

CATALOG NUMBER: LD8B30D010 ER8B30830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1768.7	1766.1	1767.0	1761.8	1761.8	1760.1	1761.0	1756.7	1755.0	1753.3	1755.9
5°	1794.3	1790.1	1786.6	1778.9	1774.7	1769.6	1767.0	1760.1	1754.1	1749.0	1748.2
7.5°	1814.8	1805.4	1799.5	1789.2	1781.5	1775.5	1767.0	1757.6	1749.9	1743.0	1737.9
10°	1823.4	1814.0	1804.6	1791.8	1783.2	1772.1	1763.5	1751.6	1741.3	1731.9	1725.9
12.5°	1824.2	1812.3	1803.7	1789.2	1778.1	1766.1	1756.7	1743.0	1731.1	1721.7	1712.3
15°	1816.6	1805.4	1795.2	1779.8	1768.7	1757.6	1746.5	1731.9	1720.8	1709.7	1702.9
17.5°	1799.5	1789.2	1777.2	1762.7	1752.5	1742.2	1730.2	1718.3	1705.4	1693.4	1684.9
20°	1777.2	1766.1	1755.9	1741.3	1732.8	1721.7	1710.5	1697.7	1687.5	1675.5	1666.1
22.5°	1743.9	1733.6	1724.2	1715.7	1702.0	1693.4	1685.8	1671.2	1661.0	1649.8	1639.6
25°	1696.0	1685.8	1678.1	1667.8	1661.8	1652.4	1644.7	1631.9	1622.5	1612.2	1603.7
27.5°	1617.4	1611.4	1607.1	1601.1	1596.0	1591.7	1587.5	1577.2	1570.4	1561.0	1552.4
30°	1499.4	1498.5	1496.0	1493.4	1496.8	1496.8	1496.8	1495.1	1489.2	1482.3	1476.3
32.5°	1348.1	1349.8	1353.2	1355.8	1362.6	1370.3	1377.2	1380.6	1380.6	1376.3	1373.7
35°	1167.7	1170.3	1175.4	1182.3	1190.8	1200.2	1215.6	1219.0	1221.6	1221.6	1218.1
37.5°	980.5	979.7	984.8	990.8	995.9	1002.7	1013.9	1016.4	1020.7	1019.0	1015.5
40°	798.4	794.2	792.4	794.2	800.1	797.6	800.1	798.4	798.4	792.4	792.4
42.5°	630.0	624.9	621.5	618.9	618.9	612.9	608.7	604.4	601.8	597.5	596.7
45°	485.6	479.6	475.3	473.6	471.0	463.3	458.2	453.1	447.1	445.4	446.2
47.5°	377.0	371.0	369.3	365.0	360.7	356.5	353.1	347.1	346.2	342.8	346.2
50°	290.6	288.9	286.4	284.7	282.1	278.7	275.3	271.8	270.1	270.1	271.0
52.5°	225.7	226.5	224.0	221.4	219.7	219.7	215.4	214.6	214.6	211.2	214.6
55°	172.7	171.8	172.7	171.0	171.0	168.4	168.4	165.8	165.8	163.3	165.0
57.5°	126.5	128.2	126.5	127.4	129.1	126.5	125.7	123.1	124.8	123.1	124.0
60°	98.3	98.3	98.3	97.5	97.5	96.6	96.6	95.7	95.7	94.0	95.7
62.5°	72.7	73.5	73.5	73.5	74.4	73.5	72.7	73.5	72.7	72.7	73.5
65°	47.9	48.7	48.7	47.9	49.6	47.9	48.7	49.6	50.4	49.6	50.4
67.5°	32.5	32.5	33.4	34.2	33.4	34.2	35.0	34.2	35.0	36.8	35.0
70°	23.9	24.8	24.8	23.9	23.1	23.9	23.1	25.7	25.7	25.7	27.3
72.5°	15.4	15.4	14.5	14.5	14.5	14.5	14.5	17.1	15.4	14.5	16.3
75°	8.6	9.4	9.4	6.8	7.7	9.4	6.8	7.7	10.3	8.6	10.3
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	6.8	6.0	6.0	6.0	6.8
80°	4.3	3.4	3.4	2.6	3.4	3.4	3.4	5.1	4.3	4.3	5.1
82.5°	1.7	1.7	0.8	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4
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: P244959

CATALOG NUMBER: LD8B30D010 ER8B30830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1749.0	1749.0	1748.2	1746.5	1743.0	1743.0	1742.2	1739.6	1737.9	1737.0	1737.0
5°	1740.5	1737.0	1733.6	1724.2	1724.2	1722.5	1717.4	1714.0	1712.3	1708.0	1706.3
7.5°	1732.8	1722.5	1716.5	1710.5	1702.9	1699.4	1693.4	1690.9	1684.9	1680.6	1678.1
10°	1714.0	1707.1	1699.4	1690.0	1684.0	1677.2	1670.4	1665.3	1657.6	1653.3	1649.8
12.5°	1701.2	1690.9	1684.0	1673.8	1663.5	1657.6	1648.2	1642.2	1634.5	1625.9	1620.8
15°	1689.2	1678.1	1668.7	1657.6	1646.4	1639.6	1628.5	1621.7	1610.5	1602.0	1596.0
17.5°	1671.2	1661.8	1651.6	1637.9	1627.6	1619.1	1607.1	1598.6	1588.3	1577.2	1571.2
20°	1652.4	1641.3	1631.1	1617.4	1607.1	1596.9	1584.9	1575.5	1563.5	1553.3	1546.4
22.5°	1627.6	1614.8	1606.3	1592.6	1580.6	1569.5	1558.4	1547.3	1536.2	1527.6	1519.9
25°	1591.7	1578.0	1568.6	1557.5	1546.4	1537.9	1524.2	1517.4	1506.3	1498.5	1490.8
27.5°	1540.4	1530.2	1521.6	1510.5	1501.1	1494.3	1484.0	1477.2	1467.8	1460.9	1455.0
30°	1465.2	1456.7	1449.0	1437.9	1431.0	1425.0	1415.6	1409.6	1402.8	1395.1	1393.4
32.5°	1364.3	1357.5	1349.8	1342.1	1337.0	1333.6	1325.9	1322.4	1315.6	1311.3	1307.1
35°	1212.2	1206.2	1201.9	1198.5	1196.8	1197.6	1195.9	1199.4	1201.0	1200.2	1201.0
37.5°	1013.0	1009.6	1011.3	1013.9	1022.4	1033.5	1043.8	1059.1	1069.4	1079.7	1089.1
40°	790.7	793.3	800.1	815.5	837.7	862.6	885.6	914.7	943.8	964.3	983.1
42.5°	596.7	604.4	621.5	643.7	677.1	713.8	749.7	792.4	827.5	861.7	885.6
45°	448.8	459.0	481.3	512.1	548.8	591.6	636.9	684.7	726.6	761.7	788.2
47.5°	349.6	359.0	381.3	413.8	459.0	503.5	550.5	600.1	643.7	677.9	701.0
50°	276.1	288.1	307.7	341.9	387.3	434.3	483.0	531.7	572.8	601.8	622.3
52.5°	217.1	228.3	247.0	283.0	329.1	376.1	421.4	469.3	505.2	533.4	547.1
55°	168.4	178.7	198.3	228.3	271.8	318.0	363.3	404.4	437.7	458.2	471.0
57.5°	128.2	135.9	149.6	179.5	218.9	261.6	300.1	341.1	366.7	381.3	389.8
60°	97.5	103.4	118.0	141.1	177.0	213.7	246.2	277.0	297.5	309.5	318.0
62.5°	73.5	80.4	90.6	110.3	137.6	167.6	194.9	218.0	235.1	242.8	248.8
65°	50.4	55.6	63.3	78.6	101.7	123.1	144.5	161.6	172.7	181.2	184.7
67.5°	37.6	41.0	45.3	57.3	73.5	90.6	105.1	117.1	129.1	132.5	138.5
70°	28.2	30.8	35.0	43.6	53.0	65.0	77.0	83.8	92.3	98.3	100.0
72.5°	17.9	18.8	23.1	28.2	35.9	43.6	51.3	57.3	62.4	65.8	67.5
75°	10.3	15.4	15.4	20.5	25.7	29.1	34.2	38.5	41.0	43.6	43.6
77.5°	6.8	9.4	10.3	12.8	15.4	19.7	23.9	26.5	29.1	29.9	29.9
80°	6.0	6.8	6.8	9.4	11.1	14.5	17.1	17.9	19.7	20.5	22.2
82.5°	2.6	3.4	4.3	6.8	7.7	7.7	10.3	11.1	12.8	13.7	13.7
85°	0.8	1.7	1.7	2.6	4.3	5.1	6.0	6.8	7.7	7.7	8.6
87.5°	0.8	0.8	0.0	0.8	1.7	1.7	3.4	3.4	3.4	5.1	5.1
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: P244959

CATALOG NUMBER: LD8B30D010 ER8B30830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1735.4	1736.2	1732.8	1731.9	1730.2	1731.1	1732.8
5°	1703.7	1704.6	1701.2	1697.7	1697.7	1696.9	1697.7
7.5°	1673.8	1674.7	1669.5	1667.8	1664.4	1665.3	1665.3
10°	1643.9	1643.9	1636.2	1635.3	1632.7	1631.9	1631.9
12.5°	1614.8	1612.2	1606.3	1602.8	1604.6	1599.4	1599.4
15°	1589.2	1584.9	1577.2	1574.6	1570.4	1568.6	1568.6
17.5°	1562.7	1559.2	1552.4	1547.3	1542.1	1541.3	1542.1
20°	1537.0	1533.6	1525.0	1521.6	1517.4	1517.4	1515.6
22.5°	1511.4	1507.9	1500.3	1497.7	1491.7	1491.7	1492.6
25°	1484.9	1482.3	1473.7	1472.1	1471.2	1467.8	1469.5
27.5°	1449.0	1447.2	1440.4	1437.9	1434.4	1433.6	1435.3
30°	1383.1	1380.6	1375.5	1372.9	1366.9	1367.8	1369.4
32.5°	1301.1	1297.7	1290.8	1288.2	1283.1	1281.4	1282.3
35°	1198.5	1195.9	1190.0	1190.0	1184.8	1183.1	1184.8
37.5°	1094.2	1096.8	1094.2	1096.8	1094.2	1093.3	1094.2
40°	995.9	1005.3	1007.0	1016.4	1013.0	1018.1	1017.3
42.5°	901.9	917.2	923.3	930.9	929.2	932.6	935.2
45°	807.0	819.8	825.8	830.9	831.8	833.5	834.3
47.5°	717.2	727.5	728.3	734.3	733.5	733.5	736.0
50°	633.5	640.3	642.0	646.3	642.9	641.1	642.0
52.5°	555.7	562.5	560.8	562.5	558.2	556.5	557.4
55°	476.1	479.6	479.6	479.6	474.5	474.5	474.5
57.5°	394.9	395.8	394.1	394.9	394.1	388.9	388.1
60°	320.6	320.6	319.7	320.6	318.0	315.4	315.4
62.5°	250.5	252.2	255.6	252.2	250.5	252.2	249.6
65°	187.2	190.6	189.8	191.5	190.6	190.6	188.9
67.5°	141.1	141.9	142.8	143.6	143.6	143.6	143.6
70°	103.4	106.0	105.1	105.1	105.1	105.1	110.3
72.5°	69.2	72.7	71.8	73.5	73.5	75.2	73.5
75°	47.0	50.4	48.7	51.3	50.4	48.7	53.0
77.5°	31.6	33.4	34.2	35.0	34.2	33.4	34.2
80°	22.2	23.9	23.1	23.9	23.9	23.9	24.8
82.5°	13.7	16.3	15.4	16.3	15.4	16.3	16.3
85°	9.4	10.3	8.6	10.3	9.4	9.4	11.1
87.5°	6.0	5.1	5.1	6.0	5.1	6.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)