

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: P244173

Luminaire Tested: **LD8B30D010 ER8B30835 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30835 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3250.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

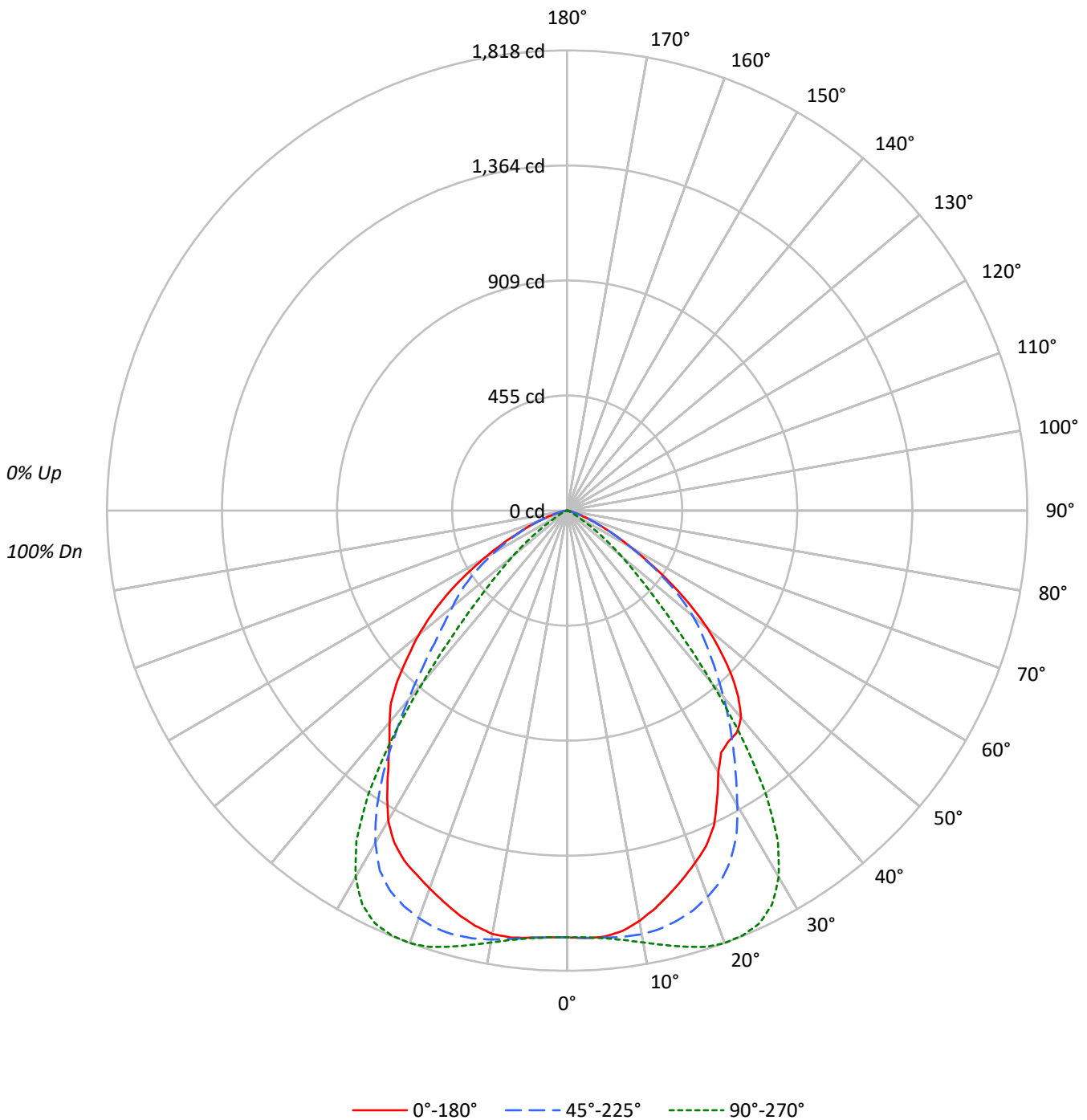
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	51990	51990	51990
5°	52300	52492	52436
10°	51530	54248	53183
15°	50025	56937	52767
20°	48573	59671	52127
25°	46708	61203	51883
30°	42507	59524	50344
35°	41875	51576	46321
40°	43011	35770	43913
45°	40042	21621	41289
50°	34732	13351	36790
55°	26655	6978	31225
60°	18156	2812	23565
65°	11295	1437	16257
70°	6131	893	9927
75°	3193	429	5862
80°	1438	479	3179
85°	955	318	2866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	5.0
10°-20°	480.3	14.8
20°-30°	732.8	22.5
30°-40°	764.7	23.5
40°-50°	574.4	17.7
50°-60°	353.4	10.9
60°-70°	143.8	4.4
70°-80°	33.9	1.0
80°-90°	4.7	0.1
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°	1375.2	42.3
0°-40°	2139.9	65.8
0°-60°	3067.6	94.4
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1686	1686	1686	1686	1686	
5°	1690	1694	1696	1694	1694	160
15°	1567	1677	1784	1734	1653	441
25°	1373	1527	1799	1656	1525	624
35°	1112	1144	1370	1266	1230	702
45°	918	795	496	740	947	701
55°	496	471	130	471	581	446
65°	155	157	20	210	223	161
75°	27	27	4	47	49	32
85°	3	3	1	6	8	4
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°	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0
2.5°	1690.5	1687.8	1690.5	1690.5	1691.4	1689.6	1690.5	1691.4	1689.6	1689.6	1689.6
5°	1689.6	1687.8	1689.6	1688.7	1690.5	1690.5	1692.3	1692.3	1694.0	1694.0	1696.7
7.5°	1675.3	1671.7	1675.3	1677.9	1679.7	1683.3	1687.8	1691.4	1694.9	1698.5	1703.0
10°	1645.7	1645.7	1648.4	1653.8	1659.1	1665.4	1673.5	1682.4	1691.4	1699.4	1707.5
12.5°	1609.0	1606.3	1611.7	1618.9	1626.9	1636.8	1649.3	1662.7	1677.1	1693.1	1705.7
15°	1567.0	1564.3	1570.5	1577.7	1587.6	1601.9	1617.1	1635.0	1655.6	1677.1	1697.6
17.5°	1524.0	1523.1	1529.4	1539.2	1547.3	1562.5	1582.2	1603.7	1626.9	1655.6	1682.4
20°	1480.2	1479.3	1485.5	1493.6	1504.3	1518.6	1538.3	1563.4	1591.1	1623.4	1654.7
22.5°	1434.5	1435.4	1440.8	1449.7	1458.7	1473.9	1494.5	1519.5	1550.0	1584.9	1619.8
25°	1372.8	1368.3	1375.5	1384.4	1399.6	1412.1	1431.9	1458.7	1490.0	1526.7	1567.9
27.5°	1283.3	1282.4	1288.7	1296.7	1310.1	1325.3	1346.8	1374.6	1407.7	1447.9	1488.2
30°	1193.8	1195.6	1198.3	1206.3	1215.3	1230.5	1252.0	1275.2	1306.6	1345.0	1388.0
32.5°	1132.9	1132.9	1136.5	1141.9	1148.2	1156.2	1171.4	1188.4	1212.6	1239.4	1270.8
35°	1112.4	1108.8	1112.4	1113.3	1114.2	1115.9	1118.6	1124.0	1132.0	1143.7	1155.3
37.5°	1103.4	1100.7	1100.7	1097.2	1092.7	1087.3	1080.1	1072.1	1063.2	1051.5	1042.6
40°	1068.5	1066.7	1064.9	1061.4	1051.5	1040.8	1029.1	1010.3	989.8	961.1	932.5
42.5°	1001.4	999.6	998.7	991.6	982.6	970.1	956.6	937.0	911.0	874.3	833.2
45°	918.2	914.6	911.9	905.6	899.4	888.6	876.1	858.2	832.3	794.7	745.5
47.5°	821.5	819.7	818.8	816.2	809.9	803.6	795.6	781.3	758.0	722.2	671.2
50°	724.0	720.4	722.2	721.3	718.6	714.1	708.8	698.9	681.0	648.8	602.3
52.5°	612.1	612.1	611.2	613.9	614.8	613.9	614.8	604.1	588.8	564.7	525.3
55°	495.8	495.8	498.5	502.0	505.6	506.5	505.6	501.2	490.4	470.7	435.8
57.5°	386.6	384.8	390.2	395.5	399.1	402.7	400.0	396.4	390.2	374.1	347.2
60°	294.4	294.4	298.0	301.6	305.2	308.7	307.8	306.9	301.6	290.8	269.4
62.5°	216.6	217.5	217.5	220.1	223.7	227.3	230.0	227.3	224.6	217.5	203.1
65°	154.8	153.9	154.8	157.5	160.2	163.8	165.6	164.7	162.0	156.6	145.9
67.5°	103.8	102.9	106.5	107.4	109.2	112.8	111.9	112.8	111.9	107.4	98.4
70°	68.0	66.2	68.0	67.1	69.8	70.7	72.5	73.4	72.5	69.8	67.1
72.5°	42.1	41.2	42.1	43.0	43.9	44.7	46.5	46.5	45.6	43.9	40.3
75°	26.8	24.2	25.1	23.3	25.1	25.1	26.8	27.7	26.8	26.8	25.1
77.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	17.0	17.9	16.1	15.2
80°	8.1	8.1	9.0	9.0	9.0	9.9	9.0	9.0	9.0	9.9	7.2
82.5°	6.3	5.4	5.4	5.4	6.3	5.4	5.4	5.4	5.4	5.4	5.4
85°	2.7	3.6	2.7	1.8	2.7	2.7	3.6	2.7	2.7	2.7	3.6
87.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.8	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0
2.5°	1690.5	1688.7	1688.7	1687.8	1689.6	1687.8	1688.7	1687.8	1687.8	1689.6	1687.8
5°	1696.7	1697.6	1695.8	1694.9	1697.6	1697.6	1697.6	1695.8	1695.8	1696.7	1695.8
7.5°	1705.7	1707.5	1708.4	1709.3	1711.1	1712.0	1712.0	1711.1	1710.2	1712.9	1709.3
10°	1715.5	1718.2	1723.6	1726.3	1730.7	1730.7	1732.5	1732.5	1730.7	1732.5	1731.6
12.5°	1712.0	1728.0	1737.0	1743.3	1749.5	1754.9	1756.7	1757.6	1756.7	1760.3	1756.7
15°	1718.2	1731.6	1746.0	1756.7	1768.3	1774.6	1776.4	1783.5	1785.3	1786.2	1780.9
17.5°	1708.4	1732.5	1747.7	1763.9	1780.9	1792.5	1803.2	1807.7	1808.6	1810.4	1803.2
20°	1686.0	1712.9	1736.1	1759.4	1779.1	1797.0	1805.9	1818.4	1814.9	1822.0	1812.2
22.5°	1655.6	1686.0	1715.5	1746.0	1766.5	1788.0	1806.8	1815.7	1820.2	1820.2	1809.5
25°	1607.2	1643.0	1675.3	1706.6	1737.9	1763.9	1785.3	1798.8	1801.4	1800.5	1788.0
27.5°	1532.1	1570.5	1608.1	1643.9	1682.4	1712.9	1737.9	1754.0	1758.5	1758.5	1745.1
30°	1428.3	1469.4	1506.1	1549.1	1588.5	1622.5	1657.4	1671.7	1679.7	1679.7	1664.5
32.5°	1304.8	1339.7	1373.7	1415.7	1458.7	1497.2	1530.3	1550.0	1559.8	1558.9	1545.5
35°	1170.5	1187.5	1213.5	1244.8	1283.3	1319.1	1351.3	1370.1	1387.1	1386.2	1373.7
37.5°	1036.3	1031.8	1034.5	1046.1	1070.3	1095.4	1120.4	1138.3	1152.6	1158.9	1156.2
40°	904.8	881.5	859.1	851.1	852.8	861.8	875.2	888.6	904.8	912.8	916.4
42.5°	786.6	747.2	707.9	678.3	661.3	656.0	662.2	666.7	676.5	688.2	699.8
45°	691.8	639.0	587.1	541.4	512.8	495.8	492.2	495.8	501.2	512.8	528.0
47.5°	613.9	552.1	494.0	443.0	400.9	378.6	372.3	370.5	375.9	386.6	407.2
50°	545.0	483.2	418.8	359.7	315.9	290.8	281.9	278.3	284.6	292.6	311.4
52.5°	469.8	409.0	342.7	285.5	239.8	213.9	204.0	198.7	202.2	213.0	231.8
55°	388.4	332.0	272.0	213.0	169.1	145.0	133.3	129.8	133.3	145.0	163.8
57.5°	306.9	259.5	209.4	153.9	114.5	90.4	78.7	75.2	85.0	89.5	109.2
60°	239.8	201.4	158.4	112.8	78.7	60.0	48.3	45.6	50.1	58.2	74.3
62.5°	179.9	155.7	121.7	80.5	58.2	38.5	32.2	29.5	32.2	38.5	51.0
65°	130.7	111.9	85.0	59.1	39.4	28.6	21.5	19.7	22.4	26.8	37.6
67.5°	89.5	75.2	59.1	41.2	26.8	17.9	15.2	15.2	16.1	19.7	27.7
70°	58.2	49.2	37.6	26.8	17.9	13.4	11.6	9.9	11.6	14.3	18.8
72.5°	36.7	31.3	24.2	18.8	13.4	9.9	8.1	7.2	9.0	10.7	14.3
75°	22.4	17.0	12.5	9.9	7.2	7.2	7.2	3.6	4.5	7.2	9.0
77.5°	13.4	11.6	9.9	8.1	6.3	3.6	3.6	3.6	4.5	5.4	8.1
80°	7.2	6.3	4.5	4.5	3.6	2.7	3.6	2.7	1.8	4.5	5.4
82.5°	4.5	3.6	3.6	3.6	4.5	1.8	2.7	1.8	2.7	3.6	2.7
85°	2.7	2.7	2.7	1.8	4.5	1.8	1.8	0.9	0.9	1.8	1.8
87.5°	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0	1686.0
2.5°	1688.7	1687.8	1688.7	1687.8	1687.8	1687.8	1688.7	1688.7	1687.8	1687.8	1689.6
5°	1695.8	1695.8	1695.8	1694.9	1694.0	1694.0	1695.8	1695.8	1693.1	1695.8	1695.8
7.5°	1711.1	1708.4	1711.1	1707.5	1705.7	1706.6	1707.5	1705.7	1703.9	1704.8	1704.8
10°	1730.7	1728.0	1728.0	1725.4	1722.7	1720.9	1719.1	1714.6	1710.2	1709.3	1705.7
12.5°	1754.0	1749.5	1746.9	1741.5	1737.0	1730.7	1725.4	1718.2	1709.3	1703.0	1696.7
15°	1777.3	1770.1	1763.9	1754.9	1745.1	1734.3	1722.7	1711.1	1696.7	1684.2	1673.5
17.5°	1796.1	1786.2	1774.6	1760.3	1746.0	1729.8	1712.9	1695.8	1675.3	1659.1	1646.6
20°	1802.3	1788.0	1772.8	1754.0	1735.2	1712.9	1691.4	1669.0	1645.7	1628.7	1614.4
22.5°	1794.3	1777.3	1758.5	1738.8	1713.7	1689.6	1664.5	1638.6	1618.0	1594.7	1581.3
25°	1771.9	1751.3	1730.7	1707.5	1683.3	1656.5	1629.6	1602.8	1577.7	1565.2	1548.2
27.5°	1726.3	1703.9	1681.5	1657.4	1629.6	1602.8	1575.0	1549.1	1527.6	1510.6	1500.8
30°	1645.7	1619.8	1593.8	1567.9	1543.7	1516.0	1490.0	1468.5	1447.0	1433.6	1423.8
32.5°	1522.2	1499.0	1473.0	1447.9	1425.6	1402.3	1380.8	1362.0	1346.8	1337.9	1330.7
35°	1355.8	1332.5	1312.8	1294.9	1276.1	1266.3	1252.9	1242.1	1235.9	1232.3	1231.4
37.5°	1146.4	1132.9	1126.7	1123.1	1119.5	1116.8	1118.6	1123.1	1126.7	1132.9	1140.1
40°	922.6	934.3	937.9	950.4	962.0	977.2	994.2	1013.9	1030.0	1050.6	1064.9
42.5°	718.6	740.1	765.1	792.0	820.6	848.4	882.4	913.7	942.3	968.3	990.7
45°	552.1	585.3	622.9	661.3	699.8	740.1	781.3	819.7	853.7	881.5	904.8
47.5°	430.4	467.1	515.5	562.9	609.4	656.9	702.5	742.8	771.4	798.2	818.8
50°	341.0	383.0	435.8	490.4	541.4	591.5	639.8	677.4	706.1	727.6	742.8
52.5°	264.0	314.1	367.8	425.1	479.7	534.3	579.0	613.9	637.2	656.0	667.6
55°	196.9	246.1	303.4	362.4	417.9	470.7	512.8	543.2	563.8	574.5	580.8
57.5°	142.3	187.0	244.3	303.4	353.5	403.6	437.6	465.3	477.0	483.2	485.9
60°	103.8	145.0	196.0	247.0	294.4	334.7	364.2	383.0	392.0	395.5	394.6
62.5°	76.1	111.9	155.7	198.7	237.1	270.3	293.5	306.1	310.5	312.3	309.6
65°	58.2	85.9	123.5	156.6	186.1	210.3	227.3	235.4	238.0	237.1	235.4
67.5°	43.0	64.4	92.2	117.2	138.7	157.5	166.5	173.6	175.4	172.7	170.0
70°	30.4	47.4	67.1	84.1	100.2	111.0	120.8	121.7	121.7	120.8	119.0
72.5°	21.5	33.1	45.6	57.3	67.1	75.2	78.7	81.4	80.5	79.6	77.9
75°	14.3	20.6	33.1	35.8	44.7	47.4	51.0	51.0	51.9	49.2	49.2
77.5°	9.0	14.3	19.7	23.3	26.8	30.4	32.2	32.2	33.1	32.2	32.2
80°	5.4	9.0	10.7	16.1	16.1	18.8	19.7	20.6	18.8	21.5	18.8
82.5°	3.6	5.4	8.1	8.1	9.9	11.6	11.6	12.5	12.5	11.6	11.6
85°	2.7	3.6	4.5	5.4	5.4	6.3	5.4	5.4	6.3	7.2	6.3
87.5°	0.9	1.8	0.9	1.8	1.8	3.6	2.7	2.7	2.7	3.6	3.6
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: P244173

CATALOG NUMBER: LD8B30D010 ER8B30835 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1686.0	1686.0	1686.0	1686.0
2.5°	1687.8	1688.7	1687.8	1687.8
5°	1695.8	1694.9	1695.8	1694.0
7.5°	1702.1	1702.1	1701.2	1701.2
10°	1702.1	1698.5	1698.5	1698.5
12.5°	1688.7	1684.2	1681.5	1679.7
15°	1665.4	1657.4	1653.8	1652.9
17.5°	1635.0	1627.8	1623.4	1620.7
20°	1600.1	1592.9	1587.6	1588.5
22.5°	1569.6	1561.6	1558.0	1556.2
25°	1539.2	1529.4	1526.7	1524.9
27.5°	1490.0	1484.6	1482.0	1479.3
30°	1414.8	1412.1	1407.7	1413.9
32.5°	1328.0	1323.6	1320.0	1322.7
35°	1232.3	1229.6	1232.3	1230.5
37.5°	1144.6	1147.3	1150.8	1152.6
40°	1075.7	1085.5	1089.1	1090.9
42.5°	1006.8	1018.4	1025.6	1030.0
45°	921.7	933.4	941.4	946.8
47.5°	834.0	843.9	851.9	851.1
50°	754.4	759.8	763.3	766.9
52.5°	673.9	673.9	674.7	674.7
55°	582.6	580.8	579.9	580.8
57.5°	482.3	480.6	479.7	477.0
60°	391.1	385.7	382.1	382.1
62.5°	306.1	299.8	297.1	296.2
65°	230.0	229.1	223.7	222.8
67.5°	166.5	162.9	159.3	160.2
70°	117.2	111.9	111.9	110.1
72.5°	76.1	73.4	72.5	72.5
75°	47.4	47.4	45.6	49.2
77.5°	31.3	31.3	30.4	31.3
80°	18.8	18.8	18.8	17.9
82.5°	11.6	12.5	11.6	11.6
85°	6.3	7.2	5.4	8.1
87.5°	3.6	4.5	3.6	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)