

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: P244137

Luminaire Tested: **LD8B30D010 ER8B30940 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30940 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2913.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

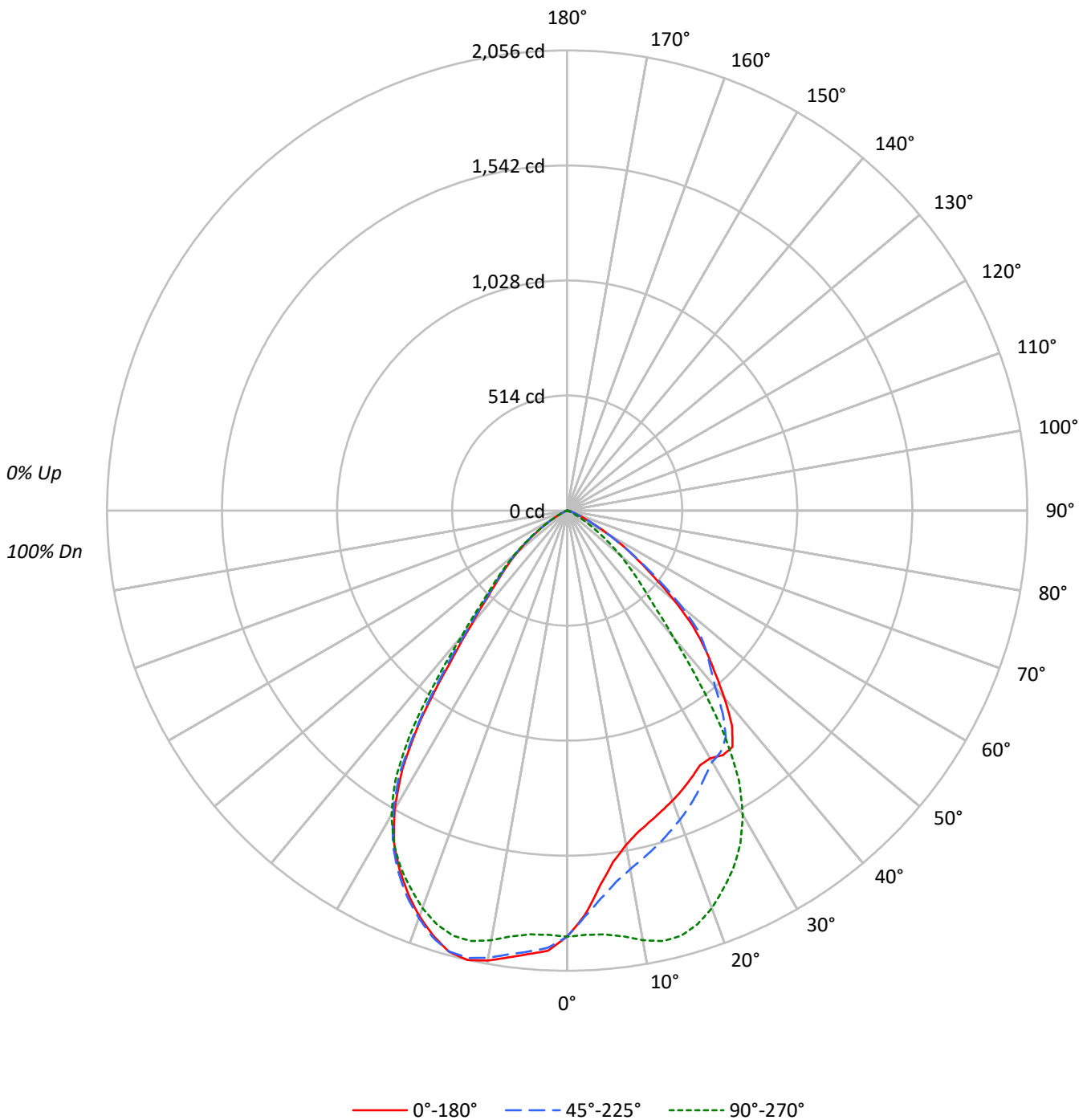
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

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

	0°	90°	180°
0°	58682	58682	58682
5°	52065	58828	61583
10°	47469	61011	63923
15°	45875	62795	65141
20°	45220	62021	63301
25°	44776	59882	60257
30°	45505	55885	54852
35°	48505	46246	42896
40°	43957	29607	26809
45°	37940	20256	18861
50°	29935	14776	13912
55°	20779	9086	8548
60°	13229	4595	4101
65°	6603	1824	1386
70°	3651	902	496
75°	2621	655	238
80°	2131	444	89
85°	2300	354	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.4	6.1
10°-20°	512.3	17.6
20°-30°	743.5	25.5
30°-40°	732.3	25.1
40°-50°	459.1	15.8
50°-60°	221.5	7.6
60°-70°	53.6	1.8
70°-80°	10.8	0.4
80°-90°	2.5	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°	1433.2	49.2
0°-40°	2165.5	74.3
0°-60°	2846.1	97.7
0°-90°	2913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1903	1903	1903	1903	1903	
5°	1682	1739	1900	1978	1990	156
15°	1437	1550	1967	2039	2040	406
25°	1316	1384	1760	1784	1771	609
35°	1288	1236	1228	1158	1140	780
45°	870	876	464	445	432	665
55°	386	399	169	167	159	356
65°	90	90	25	22	19	103
75°	22	19	6	2	2	25
85°	6	5	1	0	0	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1809.0	1797.5	1776.0	1802.0	1802.0	1787.5	1816.5	1799.0	1813.0	1835.0	1815.5
5°	1682.0	1672.5	1654.5	1682.0	1685.5	1672.0	1707.0	1694.0	1714.5	1741.5	1739.0
7.5°	1581.5	1569.5	1553.0	1581.5	1587.0	1578.0	1611.5	1605.5	1632.5	1667.5	1673.5
10°	1516.0	1503.5	1489.0	1515.0	1519.0	1513.0	1547.0	1543.5	1570.0	1610.5	1626.5
12.5°	1469.5	1459.0	1443.0	1470.5	1475.0	1466.5	1498.5	1497.0	1524.5	1567.0	1587.0
15°	1437.0	1424.5	1410.0	1433.5	1439.5	1430.0	1460.5	1457.5	1485.5	1527.5	1550.0
17.5°	1406.5	1395.0	1380.0	1402.0	1408.0	1398.0	1428.0	1423.0	1447.0	1487.0	1510.0
20°	1378.0	1365.5	1352.0	1374.5	1378.0	1366.5	1396.5	1390.0	1411.5	1448.5	1471.0
22.5°	1348.5	1335.5	1321.5	1343.5	1347.0	1335.5	1363.0	1355.5	1375.5	1409.0	1429.5
25°	1316.0	1304.0	1290.0	1310.5	1313.5	1301.0	1330.0	1320.5	1338.0	1367.5	1384.5
27.5°	1283.5	1272.0	1256.5	1277.5	1279.0	1267.0	1293.5	1280.5	1295.0	1322.0	1336.5
30°	1278.0	1265.0	1249.0	1266.0	1266.5	1251.0	1276.0	1260.5	1268.5	1288.5	1297.0
32.5°	1295.5	1282.5	1266.0	1280.0	1278.5	1261.5	1285.5	1266.5	1269.0	1279.5	1277.5
35°	1288.5	1273.0	1253.5	1268.5	1268.5	1248.0	1272.0	1249.5	1247.0	1248.5	1236.0
37.5°	1209.0	1197.0	1178.5	1193.0	1191.5	1176.0	1194.5	1176.0	1167.5	1164.0	1141.5
40°	1092.0	1077.5	1063.5	1079.0	1080.5	1064.0	1088.0	1067.0	1064.5	1054.5	1028.0
42.5°	973.5	968.5	955.0	968.0	975.0	961.0	981.0	971.0	972.5	970.0	945.0
45°	870.0	861.5	851.5	866.5	871.0	864.0	884.0	878.0	884.0	896.5	876.0
47.5°	758.5	750.0	739.0	755.0	763.0	750.0	767.0	765.0	774.0	795.5	793.5
50°	624.0	618.0	616.0	618.0	623.0	617.0	629.0	629.5	635.5	665.0	667.0
52.5°	494.0	492.5	485.5	492.0	492.0	482.5	494.5	489.0	495.0	515.0	528.0
55°	386.5	385.0	380.5	386.5	380.0	376.5	380.0	374.5	370.0	385.5	399.0
57.5°	301.0	296.0	290.5	293.0	292.5	285.0	289.0	282.5	279.0	284.5	296.5
60°	214.5	213.0	208.0	210.5	212.5	207.0	211.0	208.0	202.0	206.5	207.0
62.5°	142.5	143.5	140.5	141.0	139.5	138.5	141.0	142.5	141.0	139.0	139.5
65°	90.5	90.0	89.5	90.0	91.0	89.0	90.5	91.5	90.0	90.0	89.5
67.5°	60.0	58.5	57.0	58.0	59.0	57.5	59.0	58.5	59.0	58.5	57.0
70°	40.5	40.0	39.5	40.0	40.0	39.0	40.0	39.5	40.0	39.5	38.0
72.5°	29.5	29.5	29.0	29.5	29.5	28.5	29.0	28.0	28.5	28.0	27.0
75°	22.0	22.0	21.5	22.0	21.5	21.0	21.5	21.0	20.0	20.0	19.0
77.5°	16.0	16.0	16.0	16.0	16.0	15.5	15.5	15.0	14.5	14.0	14.0
80°	12.0	11.5	11.5	11.5	11.5	11.0	11.5	11.0	10.5	10.0	9.5
82.5°	8.5	9.0	8.5	8.5	8.5	8.0	8.5	8.0	8.0	7.5	6.5
85°	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.0	5.5	5.5	5.0
87.5°	3.5	3.5	3.5	4.0	3.5	3.5	3.5	3.0	3.0	2.5	2.5
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1841.5	1844.0	1838.5	1847.0	1880.0	1853.5	1864.5	1868.0	1893.0	1897.5	1894.5
5°	1771.5	1782.5	1789.5	1808.5	1845.0	1826.0	1845.5	1858.0	1890.0	1900.5	1903.0
7.5°	1716.5	1739.5	1756.5	1787.5	1830.5	1816.0	1845.5	1866.0	1905.0	1918.5	1925.0
10°	1675.5	1710.5	1740.0	1782.5	1831.0	1821.5	1860.0	1889.0	1932.5	1948.5	1956.5
12.5°	1644.5	1687.0	1726.5	1780.5	1833.0	1828.5	1875.0	1908.0	1954.0	1970.0	1979.5
15°	1610.5	1659.5	1705.5	1766.0	1822.5	1821.5	1871.5	1906.5	1953.5	1967.0	1976.0
17.5°	1570.0	1622.5	1673.0	1738.5	1794.5	1795.5	1846.0	1880.5	1926.5	1937.5	1943.5
20°	1529.0	1581.0	1631.5	1699.0	1754.0	1755.5	1805.0	1837.0	1881.0	1890.0	1891.5
22.5°	1485.5	1534.0	1584.5	1651.5	1704.5	1705.5	1754.5	1784.5	1822.0	1826.5	1830.5
25°	1436.0	1483.5	1531.0	1597.5	1648.0	1651.0	1695.5	1722.0	1756.5	1760.0	1761.5
27.5°	1384.5	1423.5	1469.0	1526.0	1577.0	1575.0	1617.0	1647.0	1678.0	1676.0	1675.5
30°	1332.5	1365.0	1393.0	1448.0	1485.5	1487.0	1526.5	1541.0	1573.5	1569.5	1569.0
32.5°	1296.0	1304.5	1312.0	1340.0	1375.5	1363.0	1390.0	1408.0	1430.5	1429.0	1429.5
35°	1229.0	1213.5	1191.0	1195.0	1216.5	1197.0	1211.5	1211.0	1234.0	1228.5	1235.0
37.5°	1114.5	1070.5	1020.5	992.0	996.0	971.5	966.5	978.5	986.5	971.0	976.5
40°	992.5	927.5	849.5	784.5	781.0	750.5	745.0	733.0	748.5	735.5	739.5
42.5°	902.5	816.5	714.0	635.0	618.0	592.5	577.5	575.5	580.0	571.0	568.5
45°	833.5	742.0	624.5	534.0	515.0	487.5	472.5	467.0	467.5	464.5	462.0
47.5°	752.5	660.5	541.5	449.0	427.5	401.5	386.5	383.0	385.0	381.0	378.0
50°	640.5	558.0	449.5	365.0	346.0	327.0	315.0	311.5	311.0	308.0	306.0
52.5°	520.0	451.5	357.5	287.0	270.0	251.5	243.0	238.5	239.0	236.0	233.0
55°	402.5	360.0	277.0	217.0	201.5	187.0	179.0	173.5	172.0	169.0	167.5
57.5°	299.5	271.0	207.5	156.5	147.5	133.5	125.5	119.0	118.0	116.5	116.0
60°	210.0	189.5	146.0	111.5	101.0	92.5	84.5	78.0	75.0	74.5	73.0
62.5°	136.0	123.5	96.0	74.5	66.5	60.5	52.5	48.0	46.0	44.0	44.5
65°	84.5	75.0	60.0	48.0	43.5	39.0	33.0	29.0	27.0	25.0	25.5
67.5°	52.5	47.0	38.0	31.0	28.0	24.5	20.0	17.0	15.5	14.0	13.0
70°	35.5	30.5	26.0	22.0	20.0	17.5	14.5	12.0	11.0	10.0	9.0
72.5°	25.0	22.5	19.0	16.5	15.0	13.0	11.0	9.5	8.5	7.5	6.5
75°	18.0	16.0	14.0	12.0	11.0	10.0	8.5	7.5	6.5	5.5	4.5
77.5°	13.0	11.5	10.0	9.0	8.5	7.0	6.0	5.5	5.0	4.0	3.0
80°	9.0	8.0	6.5	6.0	6.0	5.0	4.5	4.0	3.5	2.5	2.0
82.5°	6.0	5.5	5.0	4.5	4.0	3.5	3.5	2.5	2.0	1.5	1.0
85°	4.5	4.0	3.5	3.0	3.0	2.5	2.0	1.5	1.5	1.0	0.5
87.5°	2.5	2.5	2.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1920.0	1921.5	1930.0	1923.5	1940.0	1952.0	1946.0	1959.5	1955.0	1954.0	1969.5
5°	1933.0	1936.5	1948.0	1942.0	1960.0	1973.0	1967.0	1982.0	1977.5	1976.5	1992.5
7.5°	1958.0	1961.5	1971.5	1966.5	1985.5	1997.0	1989.5	2006.0	2000.0	1999.5	2015.0
10°	1989.5	1994.5	2003.0	1998.0	2015.5	2025.5	2018.0	2034.0	2028.5	2026.0	2043.0
12.5°	2013.0	2016.5	2025.0	2021.0	2038.0	2045.5	2039.0	2054.5	2047.5	2045.5	2060.5
15°	2007.5	2011.0	2018.0	2014.5	2030.5	2037.5	2029.0	2046.0	2039.0	2035.0	2048.5
17.5°	1972.5	1974.5	1979.5	1976.0	1993.0	1997.5	1988.0	2005.0	1998.5	1991.5	2004.5
20°	1921.0	1920.0	1923.0	1921.5	1935.5	1938.0	1932.0	1944.5	1937.0	1933.0	1940.5
22.5°	1857.0	1856.0	1858.0	1854.0	1868.0	1869.5	1860.5	1875.5	1868.0	1860.5	1873.0
25°	1786.0	1780.5	1779.5	1781.0	1790.5	1792.0	1782.5	1793.5	1784.0	1778.0	1790.0
27.5°	1698.5	1691.5	1690.0	1691.5	1701.0	1694.0	1686.0	1694.0	1684.5	1679.0	1686.5
30°	1590.5	1580.5	1576.0	1573.0	1583.0	1580.5	1562.0	1571.0	1556.0	1548.0	1553.5
32.5°	1445.0	1439.5	1427.5	1420.5	1430.0	1411.0	1399.5	1399.5	1393.5	1380.0	1383.0
35°	1243.0	1234.5	1223.5	1217.5	1219.0	1193.5	1174.5	1178.5	1158.5	1155.0	1156.5
37.5°	987.5	973.5	969.5	957.0	960.0	937.5	911.5	912.0	901.5	890.5	887.0
40°	742.0	739.5	735.5	725.0	729.0	704.5	694.5	695.0	688.0	680.0	684.0
42.5°	573.5	565.5	563.0	559.5	560.5	556.5	543.5	545.0	539.0	537.0	535.0
45°	466.0	457.5	451.5	454.5	454.5	450.0	445.0	448.0	445.0	441.0	443.0
47.5°	384.0	376.0	373.0	372.5	376.0	373.0	368.0	369.0	368.5	367.0	366.0
50°	306.5	304.5	302.0	300.5	302.0	301.0	296.5	299.0	300.5	295.5	297.0
52.5°	233.5	233.5	233.0	229.5	232.5	229.5	229.0	230.0	228.5	226.5	226.0
55°	171.0	169.5	167.0	166.5	167.5	166.5	165.5	166.0	167.0	162.0	162.0
57.5°	117.0	116.0	114.5	114.5	116.5	114.0	112.5	114.5	112.5	110.5	110.5
60°	75.0	74.5	73.0	73.0	73.0	72.5	71.0	71.5	72.5	69.5	70.0
62.5°	45.0	43.5	43.0	42.5	43.0	42.5	42.5	42.0	41.5	41.5	40.0
65°	24.5	23.5	22.5	23.0	23.0	22.5	22.5	22.5	21.5	21.0	20.5
67.5°	12.5	11.5	11.5	11.0	11.0	11.0	11.0	10.5	10.5	10.5	10.0
70°	8.0	7.5	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.0
72.5°	5.5	5.0	4.5	4.5	4.5	4.0	4.0	4.0	4.0	3.5	3.5
75°	4.0	3.5	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.0
80°	1.5	1.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
82.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	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: P244137

CATALOG NUMBER: LD8B30D010 ER8B30940 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1964.0	1960.0	1962.5	1981.0	1973.0	1970.5	1949.5	1968.0
5°	1987.5	1984.5	1984.5	2005.5	1996.0	1994.0	1973.5	1989.5
7.5°	2009.5	2006.5	2007.0	2028.5	2021.0	2018.0	1997.5	2013.5
10°	2038.0	2036.0	2036.5	2057.0	2049.0	2046.0	2025.0	2041.5
12.5°	2055.0	2052.0	2052.0	2074.0	2065.0	2060.5	2040.5	2056.5
15°	2042.0	2037.5	2037.5	2059.5	2049.5	2043.0	2025.5	2040.5
17.5°	1997.5	1993.0	1993.0	2012.0	2004.5	1995.0	1977.0	1991.0
20°	1935.5	1930.0	1928.5	1950.5	1940.0	1931.5	1915.5	1929.0
22.5°	1865.5	1863.0	1858.5	1880.5	1871.0	1862.0	1845.0	1855.5
25°	1781.5	1777.5	1773.0	1794.5	1785.0	1776.0	1762.5	1771.0
27.5°	1677.0	1677.5	1675.0	1692.0	1682.5	1677.5	1661.0	1675.0
30°	1550.5	1545.0	1543.0	1563.0	1554.0	1547.5	1527.0	1540.5
32.5°	1385.5	1377.5	1367.0	1389.5	1374.0	1368.5	1351.0	1370.5
35°	1145.5	1143.0	1133.5	1152.5	1144.0	1134.0	1123.0	1139.5
37.5°	885.5	887.5	886.5	891.5	886.5	880.0	868.0	862.0
40°	676.0	671.0	667.0	676.0	665.5	665.5	658.5	666.0
42.5°	530.0	528.0	533.0	535.0	529.0	528.0	527.0	526.5
45°	437.5	437.5	438.5	440.5	438.5	437.5	434.5	432.5
47.5°	360.5	362.5	360.5	367.0	363.5	362.5	356.5	359.0
50°	292.0	289.5	292.0	294.0	294.5	291.5	288.5	290.0
52.5°	226.5	222.5	221.5	224.5	222.5	222.5	220.5	220.0
55°	159.5	161.0	158.5	161.0	160.0	158.5	157.0	159.0
57.5°	108.0	108.5	107.5	109.0	106.5	107.0	106.5	106.0
60°	70.0	68.0	68.0	69.5	67.0	67.0	66.5	66.5
62.5°	40.0	39.5	39.5	39.0	38.5	38.5	38.5	37.5
65°	20.5	20.0	19.5	19.5	19.5	19.5	19.0	19.0
67.5°	10.0	9.5	9.5	10.0	9.5	9.5	9.5	9.5
70°	6.0	6.0	5.5	6.0	5.5	5.5	5.5	5.5
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)