

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: P244155

Luminaire Tested: **LSR8B30D010 EC8B30930 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244155  
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: LSR8B30D010 EC8B30930 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2700.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

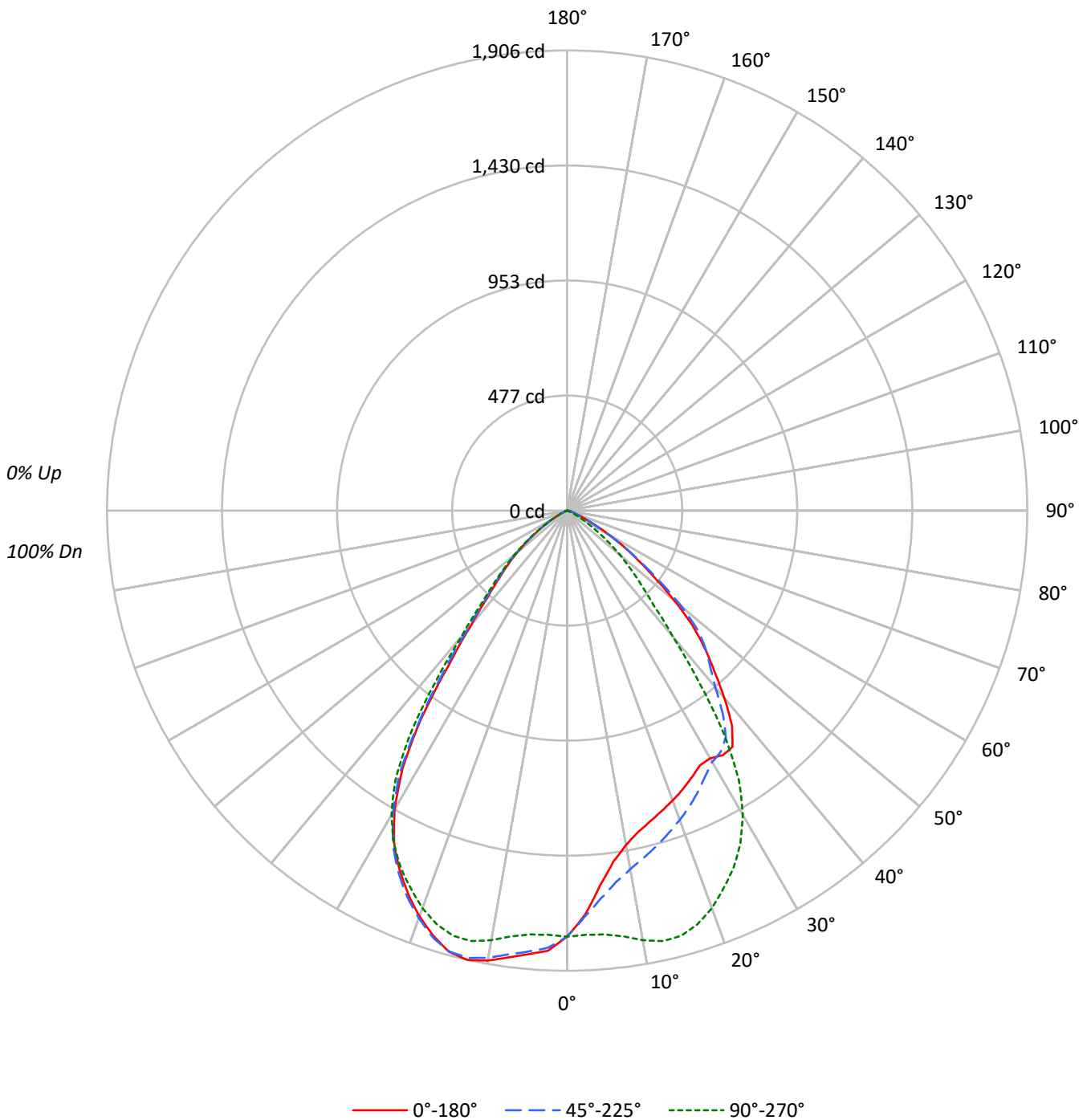
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
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°	164.4	6.1
10°-20°	474.9	17.6
20°-30°	689.3	25.5
30°-40°	678.9	25.1
40°-50°	425.6	15.8
50°-60°	205.4	7.6
60°-70°	49.7	1.8
70°-80°	10.0	0.4
80°-90°	2.3	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°	1328.6	49.2
0°-40°	2007.5	74.3
0°-60°	2638.5	97.7
0°-90°	2700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1764	1764	1764	1764	1764	
5°	1559	1612	1762	1833	1844	144
15°	1332	1437	1824	1890	1892	377
25°	1220	1284	1632	1654	1642	565
35°	1194	1146	1139	1074	1056	723
45°	807	812	431	412	401	617
55°	358	370	157	155	147	330
65°	84	83	23	20	18	96
75°	20	18	5	2	2	23
85°	6	5	1	0	0	6
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°	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1677.0	1666.4	1646.4	1670.5	1670.5	1657.1	1684.0	1667.7	1680.7	1701.1	1683.1
5°	1559.3	1550.5	1533.8	1559.3	1562.6	1550.0	1582.5	1570.4	1589.5	1614.5	1612.1
7.5°	1466.2	1455.1	1439.7	1466.2	1471.2	1462.9	1494.0	1488.4	1513.5	1545.9	1551.5
10°	1405.4	1393.9	1380.4	1404.5	1408.2	1402.6	1434.1	1431.0	1455.5	1493.1	1507.9
12.5°	1362.4	1352.6	1337.7	1363.2	1367.4	1359.5	1389.1	1387.8	1413.2	1452.7	1471.2
15°	1332.2	1320.5	1307.1	1328.9	1334.4	1325.7	1353.9	1351.1	1377.1	1416.0	1436.9
17.5°	1303.9	1293.2	1279.3	1299.7	1305.3	1296.0	1323.8	1319.2	1341.4	1378.5	1399.8
20°	1277.5	1265.8	1253.4	1274.2	1277.5	1266.8	1294.6	1288.6	1308.5	1342.8	1363.7
22.5°	1250.1	1238.0	1225.1	1245.5	1248.7	1238.0	1263.6	1256.6	1275.1	1306.2	1325.2
25°	1220.0	1208.9	1195.9	1214.9	1217.6	1206.1	1233.0	1224.1	1240.4	1267.7	1283.5
27.5°	1189.8	1179.2	1164.8	1184.3	1185.7	1174.6	1199.1	1187.1	1200.5	1225.6	1239.0
30°	1184.8	1172.7	1157.9	1173.7	1174.1	1159.8	1182.9	1168.5	1175.9	1194.5	1202.4
32.5°	1201.0	1188.9	1173.7	1186.6	1185.2	1169.4	1191.7	1174.1	1176.4	1186.1	1184.3
35°	1194.5	1180.2	1162.0	1175.9	1175.9	1157.0	1179.2	1158.3	1156.0	1157.4	1145.9
37.5°	1120.8	1109.7	1092.5	1106.0	1104.6	1090.2	1107.3	1090.2	1082.3	1079.1	1058.2
40°	1012.4	998.9	985.9	1000.3	1001.7	986.4	1008.7	989.2	986.8	977.6	953.0
42.5°	902.5	897.8	885.4	897.4	903.9	890.9	909.5	900.2	901.5	899.3	876.1
45°	806.6	798.6	789.4	803.3	807.5	801.0	819.6	814.0	819.6	831.1	812.1
47.5°	703.2	695.2	685.0	700.0	707.4	695.2	711.1	709.1	717.6	737.5	735.6
50°	578.4	572.9	571.0	572.9	577.5	571.9	583.1	583.6	589.1	616.4	618.3
52.5°	457.9	456.6	450.1	456.1	456.1	447.3	458.4	453.3	458.9	477.4	489.4
55°	358.3	356.9	352.8	358.3	352.3	349.1	352.3	347.2	343.0	357.4	369.9
57.5°	279.0	274.4	269.3	271.6	271.2	264.2	267.9	261.9	258.6	263.8	274.9
60°	198.9	197.4	192.8	195.2	197.0	191.9	195.6	192.8	187.3	191.5	191.9
62.5°	132.1	133.1	130.3	130.7	129.4	128.4	130.7	132.1	130.7	128.9	129.4
65°	83.9	83.4	83.0	83.4	84.4	82.5	83.9	84.9	83.4	83.4	83.0
67.5°	55.6	54.3	52.8	53.8	54.7	53.4	54.7	54.3	54.7	54.3	52.8
70°	37.6	37.1	36.7	37.1	37.1	36.2	37.1	36.7	37.1	36.7	35.2
72.5°	27.4	27.4	26.9	27.4	27.4	26.5	26.9	26.0	26.5	26.0	25.0
75°	20.4	20.4	20.0	20.4	20.0	19.5	20.0	19.5	18.5	18.5	17.6
77.5°	14.8	14.8	14.8	14.8	14.8	14.3	14.3	13.9	13.5	13.0	13.0
80°	11.1	10.6	10.6	10.6	10.6	10.2	10.6	10.2	9.8	9.3	8.9
82.5°	7.8	8.3	7.8	7.8	7.8	7.4	7.8	7.4	7.4	7.0	6.1
85°	6.1	6.1	6.1	6.1	6.1	5.6	5.6	5.6	5.0	5.0	4.6
87.5°	3.3	3.3	3.3	3.7	3.3	3.3	3.3	2.8	2.8	2.4	2.4
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1707.2	1709.5	1704.4	1712.2	1742.8	1718.3	1728.5	1731.7	1754.9	1759.1	1756.3
5°	1642.3	1652.5	1659.0	1676.6	1710.4	1692.8	1710.9	1722.4	1752.1	1761.9	1764.2
7.5°	1591.3	1612.6	1628.4	1657.1	1697.0	1683.5	1710.9	1729.9	1766.0	1778.6	1784.5
10°	1553.3	1585.8	1613.1	1652.5	1697.4	1688.7	1724.3	1751.2	1791.5	1806.4	1813.8
12.5°	1524.6	1563.9	1600.6	1650.6	1699.3	1695.1	1738.2	1768.8	1811.4	1826.3	1835.1
15°	1493.1	1538.5	1581.1	1637.2	1689.6	1688.7	1735.0	1767.4	1811.0	1823.5	1831.8
17.5°	1455.5	1504.2	1550.9	1611.7	1663.6	1664.6	1711.3	1743.3	1786.0	1796.2	1801.7
20°	1417.5	1465.7	1512.5	1575.0	1626.0	1627.5	1673.3	1703.0	1743.8	1752.1	1753.5
22.5°	1377.1	1422.1	1469.0	1531.1	1580.2	1581.1	1626.5	1654.4	1689.1	1693.3	1697.0
25°	1331.2	1375.2	1419.3	1481.0	1527.8	1530.6	1571.9	1596.4	1628.4	1631.6	1633.0
27.5°	1283.5	1319.6	1361.8	1414.7	1462.0	1460.1	1499.0	1526.8	1555.6	1553.7	1553.3
30°	1235.3	1265.4	1291.4	1342.4	1377.1	1378.5	1415.2	1428.6	1458.8	1455.1	1454.5
32.5°	1201.5	1209.3	1216.3	1242.3	1275.1	1263.6	1288.6	1305.3	1326.1	1324.8	1325.2
35°	1139.4	1124.9	1104.1	1107.8	1127.7	1109.7	1123.1	1122.7	1144.0	1138.9	1144.9
37.5°	1033.2	992.4	946.0	919.7	923.4	900.6	896.0	907.1	914.5	900.2	905.3
40°	920.1	859.8	787.5	727.3	724.1	695.8	690.6	679.6	693.9	681.8	685.6
42.5°	836.7	756.9	662.0	588.6	572.9	549.3	535.4	533.5	537.7	529.3	527.0
45°	772.7	687.8	579.0	495.0	477.4	452.0	438.1	432.9	433.4	430.6	428.3
47.5°	697.6	612.3	502.0	416.2	396.3	372.2	358.3	355.0	356.9	353.2	350.4
50°	593.8	517.3	416.7	338.3	320.7	303.1	292.0	288.8	288.3	285.5	283.7
52.5°	482.0	418.6	331.4	266.0	250.3	233.2	225.3	221.1	221.5	218.8	216.0
55°	373.2	333.7	256.8	201.2	186.8	173.3	165.9	160.9	159.4	156.7	155.3
57.5°	277.7	251.2	192.4	145.1	136.8	123.8	116.4	110.3	109.4	108.0	107.5
60°	194.7	175.7	135.3	103.4	93.6	85.8	78.4	72.3	69.5	69.1	67.7
62.5°	126.1	114.5	89.0	69.1	61.7	56.0	48.7	44.5	42.6	40.8	41.3
65°	78.4	69.5	55.6	44.5	40.4	36.2	30.6	26.9	25.0	23.2	23.7
67.5°	48.7	43.6	35.2	28.7	26.0	22.8	18.5	15.8	14.3	13.0	12.1
70°	33.0	28.2	24.1	20.4	18.5	16.3	13.5	11.1	10.2	9.3	8.3
72.5°	23.2	20.9	17.6	15.2	13.9	12.1	10.2	8.9	7.8	7.0	6.1
75°	16.7	14.8	13.0	11.1	10.2	9.3	7.8	7.0	6.1	5.0	4.1
77.5°	12.1	10.6	9.3	8.3	7.8	6.5	5.6	5.0	4.6	3.7	2.8
80°	8.3	7.4	6.1	5.6	5.6	4.6	4.1	3.7	3.3	2.4	1.9
82.5°	5.6	5.0	4.6	4.1	3.7	3.3	3.3	2.4	1.9	1.3	0.9
85°	4.1	3.7	3.3	2.8	2.8	2.4	1.9	1.3	1.3	0.9	0.4
87.5°	2.4	2.4	1.9	1.3	1.3	0.9	0.9	0.4	0.4	0.4	0.4
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1779.9	1781.4	1789.2	1783.2	1798.4	1809.6	1804.0	1816.6	1812.4	1811.4	1825.8
5°	1792.0	1795.3	1805.9	1800.3	1817.0	1829.0	1823.5	1837.4	1833.3	1832.3	1847.2
7.5°	1815.1	1818.4	1827.7	1823.1	1840.7	1851.3	1844.4	1859.6	1854.1	1853.7	1868.0
10°	1844.4	1849.0	1856.8	1852.2	1868.5	1877.8	1870.8	1885.6	1880.5	1878.2	1893.9
12.5°	1866.1	1869.4	1877.2	1873.5	1889.3	1896.3	1890.2	1904.6	1898.2	1896.3	1910.2
15°	1861.1	1864.3	1870.8	1867.6	1882.4	1888.9	1881.0	1896.7	1890.2	1886.5	1899.1
17.5°	1828.6	1830.5	1835.1	1831.8	1847.6	1851.8	1842.9	1858.7	1852.7	1846.2	1858.3
20°	1780.8	1779.9	1782.7	1781.4	1794.3	1796.6	1791.0	1802.7	1795.7	1792.0	1799.0
22.5°	1721.5	1720.6	1722.4	1718.7	1731.7	1733.1	1724.8	1738.7	1731.7	1724.8	1736.3
25°	1655.7	1650.6	1649.7	1651.1	1659.9	1661.3	1652.5	1662.7	1653.8	1648.3	1659.4
27.5°	1574.6	1568.1	1566.7	1568.1	1576.9	1570.4	1563.0	1570.4	1561.7	1556.5	1563.5
30°	1474.5	1465.1	1461.0	1458.2	1467.5	1465.1	1448.0	1456.4	1442.5	1435.1	1440.1
32.5°	1339.6	1334.4	1323.3	1316.8	1325.7	1308.1	1297.4	1297.4	1291.8	1279.3	1282.1
35°	1152.3	1144.4	1134.2	1128.7	1130.1	1106.4	1088.8	1092.5	1074.0	1070.8	1072.1
37.5°	915.4	902.5	898.8	887.2	890.0	869.1	845.0	845.5	835.7	825.5	822.3
40°	687.8	685.6	681.8	672.2	675.9	653.1	643.8	644.4	637.8	630.3	634.1
42.5°	531.7	524.3	521.9	518.7	519.6	515.9	503.9	505.2	499.6	497.8	495.9
45°	432.0	424.1	418.6	421.4	421.4	417.1	412.5	415.3	412.5	408.8	410.7
47.5°	356.0	348.5	345.8	345.4	348.5	345.8	341.1	342.1	341.6	340.2	339.3
50°	284.2	282.3	279.9	278.6	279.9	279.0	274.9	277.2	278.6	274.0	275.3
52.5°	216.5	216.5	216.0	212.8	215.6	212.8	212.3	213.2	211.9	210.0	209.5
55°	158.5	157.2	154.8	154.4	155.3	154.4	153.5	153.9	154.8	150.2	150.2
57.5°	108.5	107.5	106.2	106.2	108.0	105.7	104.3	106.2	104.3	102.5	102.5
60°	69.5	69.1	67.7	67.7	67.7	67.3	65.8	66.3	67.3	64.5	64.9
62.5°	41.7	40.4	39.9	39.3	39.9	39.3	39.3	38.9	38.5	38.5	37.1
65°	22.8	21.7	20.9	21.3	21.3	20.9	20.9	20.9	20.0	19.5	19.1
67.5°	11.5	10.6	10.6	10.2	10.2	10.2	10.2	9.8	9.8	9.8	9.3
70°	7.4	7.0	6.5	6.5	6.5	6.1	6.1	6.1	6.1	6.1	5.6
72.5°	5.0	4.6	4.1	4.1	4.1	3.7	3.7	3.7	3.7	3.3	3.3
75°	3.7	3.3	2.8	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	0.9
80°	1.3	1.3	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
82.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	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: P244155

CATALOG NUMBER: LSR8B30D010 EC8B30930 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1820.7	1817.0	1819.4	1836.5	1829.0	1826.8	1807.3	1824.4
5°	1842.5	1839.8	1839.8	1859.2	1850.4	1848.5	1829.6	1844.4
7.5°	1862.9	1860.1	1860.6	1880.5	1873.5	1870.8	1851.8	1866.6
10°	1889.3	1887.4	1888.0	1906.9	1899.5	1896.7	1877.2	1892.6
12.5°	1905.1	1902.3	1902.3	1922.7	1914.3	1910.2	1891.7	1906.5
15°	1893.0	1888.9	1888.9	1909.3	1900.0	1893.9	1877.8	1891.7
17.5°	1851.8	1847.6	1847.6	1865.2	1858.3	1849.4	1832.7	1845.7
20°	1794.3	1789.2	1787.8	1808.2	1798.4	1790.6	1775.8	1788.3
22.5°	1729.4	1727.1	1723.0	1743.3	1734.5	1726.1	1710.4	1720.2
25°	1651.6	1647.9	1643.6	1663.6	1654.8	1646.4	1634.0	1641.8
27.5°	1554.7	1555.2	1552.8	1568.6	1559.8	1555.2	1539.8	1552.8
30°	1437.3	1432.3	1430.4	1449.0	1440.6	1434.7	1415.6	1428.2
32.5°	1284.4	1277.0	1267.3	1288.1	1273.8	1268.6	1252.5	1270.5
35°	1061.9	1059.6	1050.8	1068.4	1060.6	1051.3	1041.1	1056.3
37.5°	820.9	822.7	821.8	826.5	821.8	815.8	804.7	799.2
40°	626.6	622.0	618.3	626.6	617.0	617.0	610.5	617.4
42.5°	491.3	489.4	494.1	495.9	490.4	489.4	488.5	488.1
45°	405.6	405.6	406.5	408.4	406.5	405.6	402.8	401.0
47.5°	334.2	336.1	334.2	340.2	337.0	336.1	330.5	332.8
50°	270.7	268.4	270.7	272.5	273.0	270.3	267.5	268.8
52.5°	210.0	206.3	205.4	208.2	206.3	206.3	204.5	203.9
55°	147.9	149.2	147.0	149.2	148.3	147.0	145.5	147.4
57.5°	100.1	100.6	99.7	101.0	98.8	99.2	98.8	98.3
60°	64.9	63.0	63.0	64.5	62.1	62.1	61.7	61.7
62.5°	37.1	36.7	36.7	36.2	35.6	35.6	35.6	34.8
65°	19.1	18.5	18.0	18.0	18.0	18.0	17.6	17.6
67.5°	9.3	8.9	8.9	9.3	8.9	8.9	8.9	8.9
70°	5.6	5.6	5.0	5.6	5.0	5.0	5.0	5.0
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)