

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: P244113

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244113  
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 EC8B30850 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3312.0 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

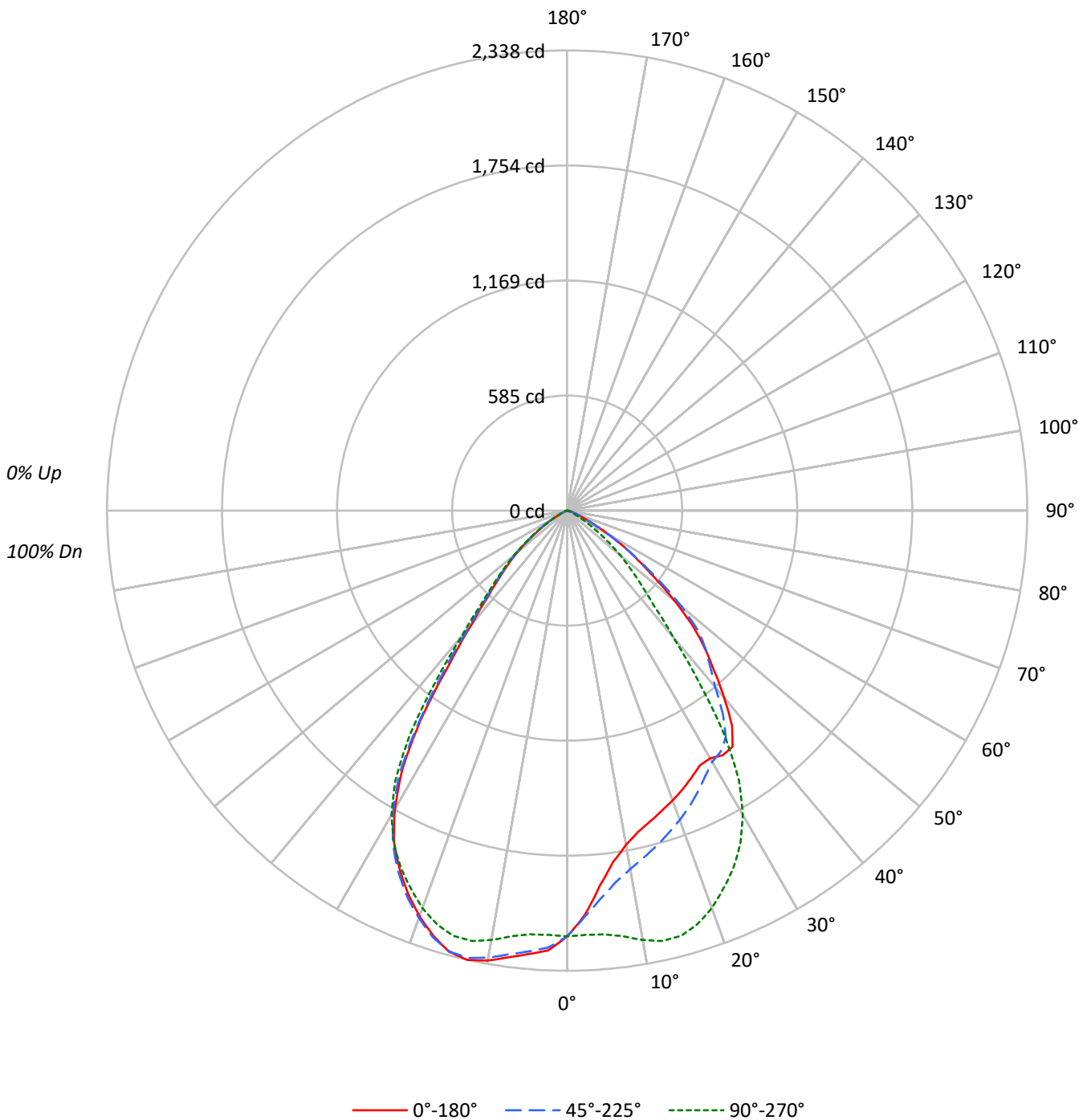
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

**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°	66721	66721	66721
5°	59197	66886	70018
10°	53973	69369	72678
15°	52158	71395	74064
20°	51415	70517	71971
25°	50910	68086	68511
30°	51740	63540	62365
35°	55149	52581	48772
40°	49979	33660	30480
45°	43138	23030	21443
50°	34037	16800	15817
55°	23623	10328	9720
60°	15042	5224	4662
65°	7508	2072	1576
70°	4147	1028	568
75°	2979	751	274
80°	2415	497	107
85°	2618	389	0



TEST NUMBER: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	6.1
10°-20°	582.5	17.6
20°-30°	845.4	25.5
30°-40°	832.6	25.1
40°-50°	521.9	15.8
50°-60°	251.9	7.6
60°-70°	60.9	1.8
70°-80°	12.3	0.4
80°-90°	2.8	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°	1629.5	49.2
0°-40°	2462.1	74.3
0°-60°	3235.9	97.7
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2164	2164	2164	2164	2164	
5°	1912	1977	2161	2248	2262	177
15°	1634	1762	2236	2318	2320	462
25°	1496	1574	2001	2028	2014	692
35°	1465	1405	1397	1317	1296	886
45°	989	996	528	506	492	756
55°	439	454	192	190	181	404
65°	103	102	28	24	22	117
75°	25	22	6	3	2	28
85°	7	6	1	0	0	8
90°	0	0	0	0	0	



TEST NUMBER: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSWOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7
2.5°	2056.8	2043.7	2019.3	2048.8	2048.8	2032.3	2065.3	2045.4	2061.3	2086.3	2064.2
5°	1912.4	1901.6	1881.1	1912.4	1916.4	1901.0	1940.8	1926.0	1949.3	1980.0	1977.2
7.5°	1798.1	1784.5	1765.7	1798.1	1804.4	1794.1	1832.2	1825.4	1856.1	1895.9	1902.7
10°	1723.7	1709.4	1693.0	1722.5	1727.1	1720.2	1758.9	1754.9	1785.0	1831.1	1849.3
12.5°	1670.8	1658.8	1640.7	1671.9	1677.0	1667.4	1703.8	1702.1	1733.3	1781.6	1804.4
15°	1633.8	1619.6	1603.1	1629.9	1636.7	1625.9	1660.6	1657.1	1689.0	1736.7	1762.3
17.5°	1599.2	1586.1	1569.0	1594.0	1600.9	1589.5	1623.6	1617.9	1645.2	1690.7	1716.8
20°	1566.8	1552.5	1537.2	1562.8	1566.8	1553.7	1587.8	1580.4	1604.8	1646.9	1672.5
22.5°	1533.2	1518.4	1502.5	1527.5	1531.5	1518.4	1549.7	1541.2	1563.9	1602.0	1625.3
25°	1496.3	1482.6	1466.7	1490.0	1493.4	1479.2	1512.2	1501.4	1521.3	1554.8	1574.1
27.5°	1459.3	1446.2	1428.6	1452.5	1454.2	1440.5	1470.7	1455.9	1472.4	1503.1	1519.6
30°	1453.1	1438.3	1420.1	1439.4	1440.0	1422.4	1450.8	1433.2	1442.3	1465.0	1474.7
32.5°	1473.0	1458.2	1439.4	1455.3	1453.6	1434.3	1461.6	1440.0	1442.8	1454.8	1452.5
35°	1465.0	1447.4	1425.2	1442.3	1442.3	1418.9	1446.2	1420.6	1417.8	1419.5	1405.3
37.5°	1374.6	1361.0	1339.9	1356.4	1354.7	1337.1	1358.1	1337.1	1327.4	1323.4	1297.9
40°	1241.6	1225.1	1209.2	1226.8	1228.5	1209.7	1237.0	1213.2	1210.3	1198.9	1168.8
42.5°	1106.8	1101.2	1085.8	1100.6	1108.6	1092.6	1115.4	1104.0	1105.7	1102.9	1074.4
45°	989.2	979.5	968.1	985.2	990.3	982.3	1005.1	998.3	1005.1	1019.3	996.0
47.5°	862.4	852.7	840.2	858.4	867.5	852.7	872.1	869.8	880.0	904.5	902.2
50°	709.5	702.7	700.4	702.7	708.3	701.5	715.2	715.7	722.5	756.1	758.4
52.5°	561.7	560.0	552.0	559.4	559.4	548.6	562.2	556.0	562.8	585.5	600.3
55°	439.4	437.7	432.6	439.4	432.1	428.1	432.1	425.8	420.7	438.3	453.7
57.5°	342.2	336.5	330.3	333.1	332.6	324.0	328.6	321.2	317.2	323.5	337.1
60°	243.9	242.2	236.5	239.3	241.6	235.4	239.9	236.5	229.7	234.8	235.4
62.5°	162.0	163.2	159.7	160.3	158.6	157.5	160.3	162.0	160.3	158.0	158.6
65°	102.9	102.3	101.8	102.3	103.5	101.2	102.9	104.0	102.3	102.3	101.8
67.5°	68.2	66.5	64.8	65.9	67.1	65.4	67.1	66.5	67.1	66.5	64.8
70°	46.0	45.5	44.9	45.5	45.5	44.3	45.5	44.9	45.5	44.9	43.2
72.5°	33.5	33.5	33.0	33.5	33.5	32.4	33.0	31.8	32.4	31.8	30.7
75°	25.0	25.0	24.4	25.0	24.4	23.9	24.4	23.9	22.7	22.7	21.6
77.5°	18.2	18.2	18.2	18.2	18.2	17.6	17.6	17.1	16.5	15.9	15.9
80°	13.6	13.1	13.1	13.1	13.1	12.5	13.1	12.5	11.9	11.4	10.8
82.5°	9.7	10.2	9.7	9.7	9.7	9.1	9.7	9.1	9.1	8.5	7.4
85°	7.4	7.4	7.4	7.4	7.4	6.8	6.8	6.8	6.3	6.3	5.7
87.5°	4.0	4.0	4.0	4.5	4.0	4.0	4.0	3.4	3.4	2.8	2.8
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: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7
2.5°	2093.7	2096.6	2090.3	2100.0	2137.5	2107.4	2119.9	2123.9	2152.3	2157.4	2154.0
5°	2014.2	2026.7	2034.6	2056.2	2097.7	2076.1	2098.3	2112.5	2148.9	2160.8	2163.7
7.5°	1951.6	1977.8	1997.1	2032.3	2081.2	2064.7	2098.3	2121.6	2165.9	2181.3	2188.7
10°	1905.0	1944.8	1978.3	2026.7	2081.8	2071.0	2114.8	2147.7	2197.2	2215.4	2224.5
12.5°	1869.8	1918.1	1963.0	2024.4	2084.1	2079.0	2131.8	2169.3	2221.6	2239.8	2250.6
15°	1831.1	1886.8	1939.1	2007.9	2072.1	2071.0	2127.8	2167.6	2221.1	2236.4	2246.7
17.5°	1785.0	1844.7	1902.2	1976.6	2040.3	2041.4	2098.9	2138.1	2190.4	2202.9	2209.7
20°	1738.4	1797.6	1855.0	1931.7	1994.3	1996.0	2052.2	2088.6	2138.6	2148.9	2150.6
22.5°	1689.0	1744.1	1801.5	1877.7	1938.0	1939.1	1994.8	2028.9	2071.6	2076.7	2081.2
25°	1632.7	1686.7	1740.7	1816.3	1873.7	1877.1	1927.7	1957.9	1997.1	2001.1	2002.8
27.5°	1574.1	1618.5	1670.2	1735.0	1793.0	1790.7	1838.5	1872.6	1907.8	1905.6	1905.0
30°	1515.0	1552.0	1583.8	1646.3	1689.0	1690.7	1735.6	1752.1	1789.0	1784.5	1783.9
32.5°	1473.5	1483.2	1491.7	1523.5	1563.9	1549.7	1580.4	1600.9	1626.4	1624.7	1625.3
35°	1397.3	1379.7	1354.1	1358.7	1383.1	1361.0	1377.4	1376.9	1403.0	1396.8	1404.2
37.5°	1267.2	1217.1	1160.3	1127.9	1132.4	1104.6	1098.9	1112.5	1121.6	1104.0	1110.3
40°	1128.4	1054.5	965.9	892.0	888.0	853.3	847.0	833.4	851.0	836.2	840.8
42.5°	1026.1	928.3	811.8	722.0	702.7	673.7	656.6	654.3	659.4	649.2	646.4
45°	947.7	843.6	710.0	607.1	585.5	554.3	537.2	531.0	531.5	528.1	525.3
47.5°	855.6	751.0	615.7	510.5	486.1	456.5	439.4	435.5	437.7	433.2	429.8
50°	728.2	634.4	511.1	415.0	393.4	371.8	358.1	354.2	353.6	350.2	347.9
52.5°	591.2	513.3	406.5	326.3	307.0	285.9	276.3	271.2	271.7	268.3	264.9
55°	457.6	409.3	314.9	246.7	229.1	212.6	203.5	197.3	195.6	192.1	190.4
57.5°	340.5	308.1	235.9	177.9	167.7	151.8	142.7	135.3	134.2	132.5	131.9
60°	238.8	215.5	166.0	126.8	114.8	105.2	96.1	88.7	85.3	84.7	83.0
62.5°	154.6	140.4	109.1	84.7	75.6	68.8	59.7	54.6	52.3	50.0	50.6
65°	96.1	85.3	68.2	54.6	49.5	44.3	37.5	33.0	30.7	28.4	29.0
67.5°	59.7	53.4	43.2	35.2	31.8	27.9	22.7	19.3	17.6	15.9	14.8
70°	40.4	34.7	29.6	25.0	22.7	19.9	16.5	13.6	12.5	11.4	10.2
72.5°	28.4	25.6	21.6	18.8	17.1	14.8	12.5	10.8	9.7	8.5	7.4
75°	20.5	18.2	15.9	13.6	12.5	11.4	9.7	8.5	7.4	6.3	5.1
77.5°	14.8	13.1	11.4	10.2	9.7	8.0	6.8	6.3	5.7	4.5	3.4
80°	10.2	9.1	7.4	6.8	6.8	5.7	5.1	4.5	4.0	2.8	2.3
82.5°	6.8	6.3	5.7	5.1	4.5	4.0	4.0	2.8	2.3	1.7	1.1
85°	5.1	4.5	4.0	3.4	3.4	2.8	2.3	1.7	1.7	1.1	0.6
87.5°	2.8	2.8	2.3	1.7	1.7	1.1	1.1	0.6	0.6	0.6	0.6
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: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7
2.5°	2183.0	2184.7	2194.4	2187.0	2205.7	2219.4	2212.6	2227.9	2222.8	2221.6	2239.3
5°	2197.8	2201.8	2214.8	2208.0	2228.5	2243.3	2236.4	2253.5	2248.4	2247.2	2265.4
7.5°	2226.2	2230.2	2241.5	2235.9	2257.5	2270.5	2262.0	2280.8	2273.9	2273.4	2291.0
10°	2262.0	2267.7	2277.4	2271.7	2291.6	2302.9	2294.4	2312.6	2306.4	2303.5	2322.8
12.5°	2288.7	2292.7	2302.4	2297.8	2317.2	2325.7	2318.3	2335.9	2328.0	2325.7	2342.7
15°	2282.5	2286.5	2294.4	2290.4	2308.6	2316.6	2306.9	2326.2	2318.3	2313.7	2329.1
17.5°	2242.7	2245.0	2250.6	2246.7	2266.0	2271.1	2260.3	2279.6	2272.2	2264.3	2279.1
20°	2184.1	2183.0	2186.4	2184.7	2200.6	2203.5	2196.6	2210.8	2202.3	2197.8	2206.3
22.5°	2111.4	2110.2	2112.5	2108.0	2123.9	2125.6	2115.3	2132.4	2123.9	2115.3	2129.6
25°	2030.6	2024.4	2023.2	2025.0	2035.8	2037.5	2026.7	2039.2	2028.4	2021.5	2035.2
27.5°	1931.2	1923.2	1921.5	1923.2	1934.0	1926.0	1916.9	1926.0	1915.2	1909.0	1917.5
30°	1808.4	1797.0	1791.9	1788.5	1799.8	1797.0	1776.0	1786.2	1769.1	1760.0	1766.3
32.5°	1642.9	1636.7	1623.0	1615.1	1625.9	1604.3	1591.2	1591.2	1584.4	1569.0	1572.4
35°	1413.3	1403.6	1391.1	1384.3	1386.0	1357.0	1335.4	1339.9	1317.2	1313.2	1314.9
37.5°	1122.8	1106.8	1102.3	1088.1	1091.5	1065.9	1036.4	1036.9	1025.0	1012.5	1008.5
40°	843.6	840.8	836.2	824.3	828.9	801.0	789.6	790.2	782.2	773.1	777.7
42.5°	652.1	643.0	640.1	636.1	637.3	632.7	617.9	619.7	612.8	610.6	608.3
45°	529.8	520.2	513.3	516.8	516.8	511.6	506.0	509.4	506.0	501.4	503.7
47.5°	436.6	427.5	424.1	423.5	427.5	424.1	418.4	419.5	419.0	417.3	416.1
50°	348.5	346.2	343.4	341.7	343.4	342.2	337.1	340.0	341.7	336.0	337.7
52.5°	265.5	265.5	264.9	260.9	264.3	260.9	260.4	261.5	259.8	257.5	257.0
55°	194.4	192.7	189.9	189.3	190.4	189.3	188.2	188.7	189.9	184.2	184.2
57.5°	133.0	131.9	130.2	130.2	132.5	129.6	127.9	130.2	127.9	125.6	125.6
60°	85.3	84.7	83.0	83.0	83.0	82.4	80.7	81.3	82.4	79.0	79.6
62.5°	51.2	49.5	48.9	48.3	48.9	48.3	48.3	47.8	47.2	47.2	45.5
65°	27.9	26.7	25.6	26.2	26.2	25.6	25.6	25.6	24.4	23.9	23.3
67.5°	14.2	13.1	13.1	12.5	12.5	12.5	12.5	11.9	11.9	11.9	11.4
70°	9.1	8.5	8.0	8.0	8.0	7.4	7.4	7.4	7.4	7.4	6.8
72.5°	6.3	5.7	5.1	5.1	5.1	4.5	4.5	4.5	4.5	4.0	4.0
75°	4.5	4.0	3.4	3.4	3.4	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.3	2.3	2.3	2.3	1.7	1.7	1.7	1.7	1.7	1.1
80°	1.7	1.7	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6
82.5°	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	0.6	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: P244113

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7	2163.7
2.5°	2233.0	2228.5	2231.3	2252.3	2243.3	2240.4	2216.5	2237.6
5°	2259.7	2256.3	2256.3	2280.2	2269.4	2267.1	2243.8	2262.0
7.5°	2284.8	2281.3	2281.9	2306.4	2297.8	2294.4	2271.1	2289.3
10°	2317.2	2314.9	2315.4	2338.8	2329.7	2326.2	2302.4	2321.1
12.5°	2336.5	2333.1	2333.1	2358.1	2347.9	2342.7	2320.0	2338.2
15°	2321.7	2316.6	2316.6	2341.6	2330.2	2322.8	2302.9	2320.0
17.5°	2271.1	2266.0	2266.0	2287.6	2279.1	2268.3	2247.8	2263.7
20°	2200.6	2194.4	2192.7	2217.7	2205.7	2196.1	2177.9	2193.2
22.5°	2121.0	2118.2	2113.1	2138.1	2127.3	2117.0	2097.7	2109.7
25°	2025.5	2021.0	2015.9	2040.3	2029.5	2019.3	2003.9	2013.6
27.5°	1906.7	1907.3	1904.4	1923.8	1913.0	1907.3	1888.5	1904.4
30°	1762.9	1756.6	1754.4	1777.1	1766.9	1759.5	1736.2	1751.5
32.5°	1575.3	1566.2	1554.2	1579.8	1562.2	1555.9	1536.1	1558.2
35°	1302.4	1299.6	1288.8	1310.4	1300.7	1289.3	1276.8	1295.6
37.5°	1006.8	1009.1	1007.9	1013.6	1007.9	1000.5	986.9	980.1
40°	768.6	762.9	758.4	768.6	756.7	756.7	748.7	757.2
42.5°	602.6	600.3	606.0	608.3	601.5	600.3	599.2	598.6
45°	497.4	497.4	498.6	500.8	498.6	497.4	494.0	491.7
47.5°	409.9	412.2	409.9	417.3	413.3	412.2	405.3	408.2
50°	332.0	329.2	332.0	334.3	334.8	331.4	328.0	329.7
52.5°	257.5	253.0	251.8	255.3	253.0	253.0	250.7	250.1
55°	181.3	183.1	180.2	183.1	181.9	180.2	178.5	180.8
57.5°	122.8	123.4	122.2	123.9	121.1	121.7	121.1	120.5
60°	79.6	77.3	77.3	79.0	76.2	76.2	75.6	75.6
62.5°	45.5	44.9	44.9	44.3	43.8	43.8	43.8	42.6
65°	23.3	22.7	22.2	22.2	22.2	22.2	21.6	21.6
67.5°	11.4	10.8	10.8	11.4	10.8	10.8	10.8	10.8
70°	6.8	6.8	6.3	6.8	6.3	6.3	6.3	6.3
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)