

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: P245385

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245385  
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 EC8B30827 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2958.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

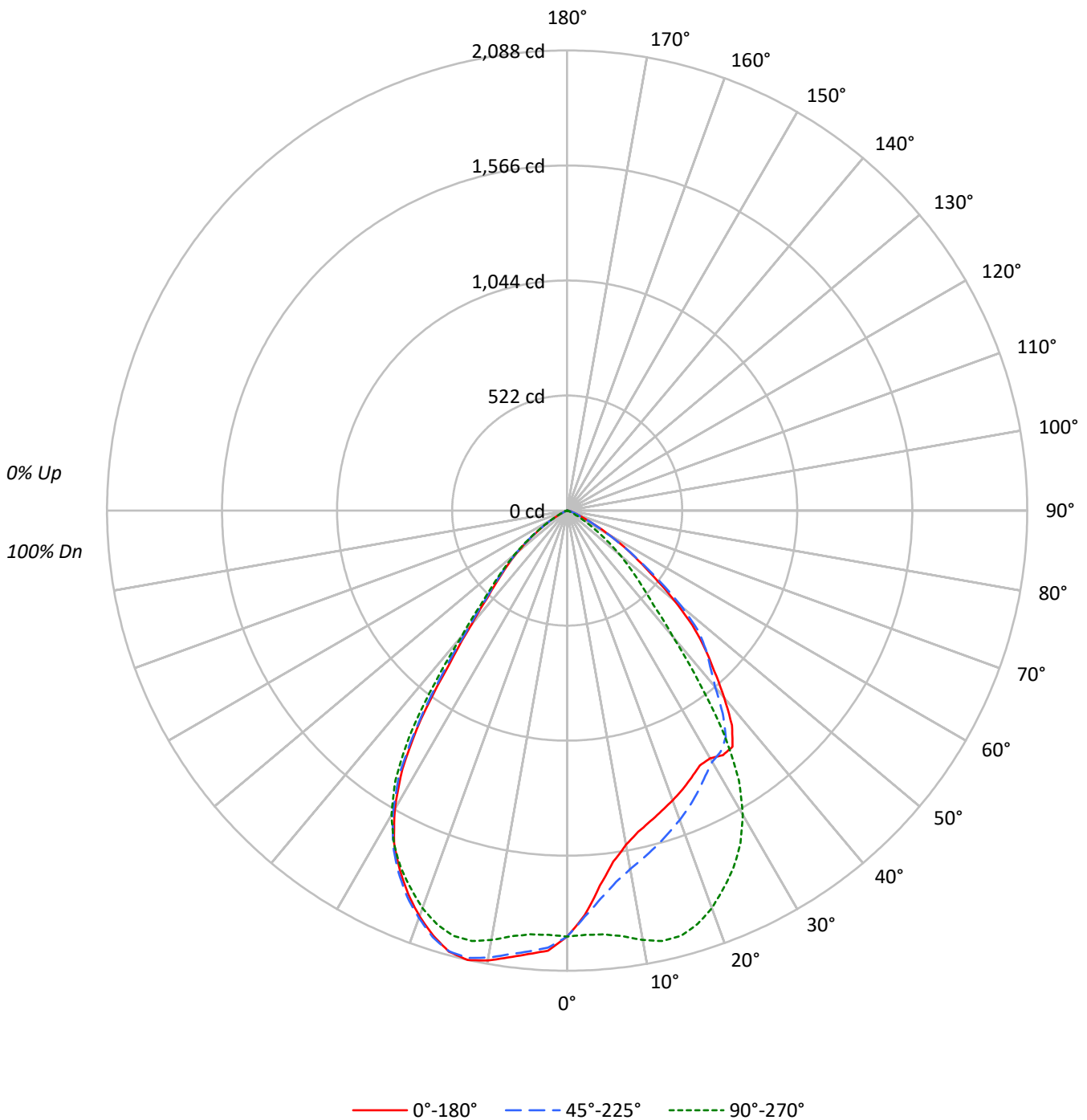
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**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°	59588	59588	59588
5°	52870	59738	62533
10°	48202	61954	64910
15°	46584	63765	66147
20°	45918	62979	64279
25°	45466	60808	61189
30°	46207	56746	55700
35°	49254	46961	43558
40°	44638	30066	27224
45°	38524	20570	19153
50°	30396	15006	14128
55°	21101	9225	8682
60°	13432	4669	4163
65°	6705	1853	1408
70°	3706	920	505
75°	2657	667	238
80°	2166	444	89
85°	2335	354	0



TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	6.1
10°-20°	520.2	17.6
20°-30°	755.0	25.5
30°-40°	743.6	25.1
40°-50°	466.1	15.8
50°-60°	224.9	7.6
60°-70°	54.4	1.8
70°-80°	11.0	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°	1455.3	49.2
0°-40°	2199.0	74.3
0°-60°	2890.0	97.7
0°-90°	2958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1932	1932	1932	1932	1932	
5°	1708	1766	1930	2008	2020	158
15°	1459	1574	1997	2070	2072	413
25°	1336	1406	1787	1812	1798	618
35°	1308	1255	1248	1176	1157	792
45°	883	890	472	452	439	675
55°	392	405	172	170	162	361
65°	92	91	25	22	19	105
75°	22	19	6	2	2	25
85°	7	5	1	0	0	7
90°	0	0	0	0	0	



TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1836.9	1825.3	1803.4	1829.8	1829.8	1815.1	1844.6	1826.8	1841.0	1863.4	1843.5
5°	1708.0	1698.3	1680.1	1708.0	1711.5	1697.8	1733.4	1720.2	1741.0	1768.4	1765.9
7.5°	1605.9	1593.7	1577.0	1605.9	1611.5	1602.4	1636.4	1630.3	1657.7	1693.3	1699.4
10°	1539.4	1526.7	1512.0	1538.4	1542.5	1536.4	1570.9	1567.3	1594.3	1635.4	1651.6
12.5°	1492.2	1481.5	1465.3	1493.2	1497.8	1489.2	1521.7	1520.1	1548.1	1591.2	1611.5
15°	1459.2	1446.5	1431.8	1455.6	1461.7	1452.1	1483.1	1480.0	1508.5	1551.1	1573.9
17.5°	1428.2	1416.6	1401.3	1423.7	1429.8	1419.6	1450.1	1445.0	1469.4	1510.0	1533.3
20°	1399.3	1386.6	1372.9	1395.7	1399.3	1387.6	1418.1	1411.5	1433.3	1470.9	1493.7
22.5°	1369.3	1356.1	1341.9	1364.3	1367.8	1356.1	1384.1	1376.4	1396.8	1430.8	1451.6
25°	1336.3	1324.1	1309.9	1330.7	1333.8	1321.1	1350.5	1340.9	1358.7	1388.6	1405.9
27.5°	1303.3	1291.7	1275.9	1297.2	1298.8	1286.6	1313.5	1300.3	1315.0	1342.4	1357.1
30°	1297.7	1284.5	1268.3	1285.6	1286.1	1270.3	1295.7	1280.0	1288.1	1308.4	1317.0
32.5°	1315.5	1302.3	1285.6	1299.8	1298.3	1281.0	1305.4	1286.1	1288.6	1299.3	1297.2
35°	1308.4	1292.7	1272.9	1288.1	1288.1	1267.3	1291.7	1268.8	1266.3	1267.8	1255.1
37.5°	1227.7	1215.5	1196.7	1211.4	1209.9	1194.2	1213.0	1194.2	1185.5	1182.0	1159.1
40°	1108.9	1094.1	1079.9	1095.7	1097.2	1080.4	1104.8	1083.5	1080.9	1070.8	1043.9
42.5°	988.5	983.5	969.8	983.0	990.1	975.8	996.2	986.0	987.5	985.0	959.6
45°	883.4	874.8	864.7	879.9	884.5	877.3	897.7	891.6	897.7	910.4	889.5
47.5°	770.2	761.6	750.4	766.7	774.8	761.6	778.9	776.8	786.0	807.8	805.8
50°	633.6	627.5	625.5	627.5	632.6	626.5	638.7	639.2	645.3	675.3	677.3
52.5°	501.6	500.1	493.0	499.6	499.6	490.0	502.1	496.6	502.6	523.0	536.2
55°	392.5	390.9	386.4	392.5	385.9	382.3	385.9	380.3	375.7	391.5	405.2
57.5°	305.7	300.6	295.0	297.5	297.0	289.4	293.5	286.9	283.3	288.9	301.1
60°	217.8	216.3	211.2	213.8	215.8	210.2	214.3	211.2	205.1	209.7	210.2
62.5°	144.7	145.7	142.7	143.2	141.7	140.6	143.2	144.7	143.2	141.1	141.7
65°	91.9	91.4	90.9	91.4	92.4	90.4	91.9	92.9	91.4	91.4	90.9
67.5°	60.9	59.4	57.9	58.9	59.9	58.4	59.9	59.4	59.9	59.4	57.9
70°	41.1	40.6	40.1	40.6	40.6	39.6	40.6	40.1	40.6	40.1	38.6
72.5°	30.0	30.0	29.4	30.0	30.0	28.9	29.4	28.4	28.9	28.4	27.4
75°	22.3	22.3	21.8	22.3	21.8	21.3	21.8	21.3	20.3	20.3	19.3
77.5°	16.2	16.2	16.2	16.2	16.2	15.7	15.7	15.2	14.7	14.2	14.2
80°	12.2	11.7	11.7	11.7	11.7	11.2	11.7	11.2	10.7	10.2	9.6
82.5°	8.6	9.1	8.6	8.6	8.6	8.1	8.6	8.1	8.1	7.6	6.6
85°	6.6	6.6	6.6	6.6	6.6	6.1	6.1	6.1	5.6	5.6	5.1
87.5°	3.6	3.6	3.6	4.1	3.6	3.6	3.6	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



TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1870.0	1872.5	1866.9	1875.5	1909.0	1882.1	1893.3	1896.9	1922.2	1926.8	1923.8
5°	1798.9	1810.0	1817.1	1836.4	1873.5	1854.2	1874.0	1886.7	1919.2	1929.9	1932.4
7.5°	1743.0	1766.4	1783.6	1815.1	1858.8	1844.1	1874.0	1894.8	1934.4	1948.1	1954.7
10°	1701.4	1736.9	1766.9	1810.0	1859.3	1849.6	1888.7	1918.2	1962.4	1978.6	1986.7
12.5°	1669.9	1713.1	1753.2	1808.0	1861.3	1856.8	1904.0	1937.5	1984.2	2000.4	2010.1
15°	1635.4	1685.1	1731.9	1793.3	1850.7	1849.6	1900.4	1936.0	1983.7	1997.4	2006.5
17.5°	1594.3	1647.6	1698.8	1765.4	1822.2	1823.2	1874.5	1909.6	1956.3	1967.4	1973.5
20°	1552.6	1605.4	1656.7	1725.2	1781.1	1782.6	1832.9	1865.4	1910.1	1919.2	1920.7
22.5°	1508.5	1557.7	1609.0	1677.0	1730.8	1731.9	1781.6	1812.1	1850.1	1854.7	1858.8
25°	1458.2	1506.4	1554.7	1622.2	1673.5	1676.5	1721.7	1748.6	1783.6	1787.2	1788.7
27.5°	1405.9	1445.5	1491.7	1549.6	1601.4	1599.3	1642.0	1672.4	1703.9	1701.9	1701.4
30°	1353.1	1386.1	1414.5	1470.4	1508.5	1510.0	1550.1	1564.8	1597.8	1593.7	1593.2
32.5°	1316.0	1324.7	1332.3	1360.7	1396.8	1384.1	1411.5	1429.8	1452.6	1451.1	1451.6
35°	1248.0	1232.2	1209.4	1213.5	1235.3	1215.5	1230.2	1229.7	1253.1	1247.5	1254.1
37.5°	1131.7	1087.0	1036.3	1007.3	1011.4	986.5	981.4	993.6	1001.7	986.0	991.6
40°	1007.8	941.8	862.6	796.6	793.1	762.1	756.5	744.3	760.1	746.9	750.9
42.5°	916.4	829.1	725.0	644.8	627.5	601.7	586.4	584.4	589.0	579.8	577.3
45°	846.4	753.5	634.1	542.3	523.0	495.0	479.8	474.2	474.7	471.7	469.1
47.5°	764.1	670.7	549.9	455.9	434.1	407.7	392.5	388.9	390.9	386.9	383.8
50°	650.4	566.6	456.4	370.6	351.3	332.1	319.9	316.3	315.8	312.8	310.7
52.5°	528.0	458.5	363.0	291.4	274.2	255.4	246.8	242.2	242.7	239.6	236.6
55°	408.7	365.6	281.3	220.4	204.6	189.9	181.8	176.2	174.7	171.6	170.1
57.5°	304.1	275.2	210.7	158.9	149.8	135.6	127.4	120.8	119.8	118.3	117.8
60°	213.2	192.4	148.3	113.2	102.6	93.9	85.8	79.2	76.2	75.7	74.1
62.5°	138.1	125.4	97.5	75.7	67.5	61.4	53.3	48.7	46.7	44.7	45.2
65°	85.8	76.2	60.9	48.7	44.2	39.6	33.5	29.4	27.4	25.4	25.9
67.5°	53.3	47.7	38.6	31.5	28.4	24.9	20.3	17.3	15.7	14.2	13.2
70°	36.0	31.0	26.4	22.3	20.3	17.8	14.7	12.2	11.2	10.2	9.1
72.5°	25.4	22.8	19.3	16.8	15.2	13.2	11.2	9.6	8.6	7.6	6.6
75°	18.3	16.2	14.2	12.2	11.2	10.2	8.6	7.6	6.6	5.6	4.6
77.5°	13.2	11.7	10.2	9.1	8.6	7.1	6.1	5.6	5.1	4.1	3.0
80°	9.1	8.1	6.6	6.1	6.1	5.1	4.6	4.1	3.6	2.5	2.0
82.5°	6.1	5.6	5.1	4.6	4.1	3.6	3.6	2.5	2.0	1.5	1.0
85°	4.6	4.1	3.6	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



TEST NUMBER: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1949.7	1951.2	1959.8	1953.2	1970.0	1982.2	1976.1	1989.8	1985.2	1984.2	1999.9
5°	1962.9	1966.4	1978.1	1972.0	1990.3	2003.5	1997.4	2012.6	2008.1	2007.0	2023.3
7.5°	1988.3	1991.8	2002.0	1996.9	2016.2	2027.9	2020.2	2037.0	2030.9	2030.4	2046.1
10°	2020.2	2025.3	2033.9	2028.9	2046.6	2056.8	2049.2	2065.4	2059.8	2057.3	2074.6
12.5°	2044.1	2047.7	2056.3	2052.2	2069.5	2077.1	2070.5	2086.2	2079.1	2077.1	2092.3
15°	2038.5	2042.1	2049.2	2045.6	2061.9	2069.0	2060.3	2077.6	2070.5	2066.4	2080.1
17.5°	2003.0	2005.0	2010.1	2006.5	2023.8	2028.4	2018.7	2036.0	2029.4	2022.3	2035.5
20°	1950.7	1949.7	1952.7	1951.2	1965.4	1967.9	1961.8	1974.5	1966.9	1962.9	1970.5
22.5°	1885.7	1884.7	1886.7	1882.6	1896.9	1898.4	1889.2	1904.5	1896.9	1889.2	1901.9
25°	1813.6	1808.0	1807.0	1808.5	1818.2	1819.7	1810.0	1821.2	1811.6	1805.5	1817.7
27.5°	1724.7	1717.6	1716.1	1717.6	1727.3	1720.2	1712.0	1720.2	1710.5	1704.9	1712.6
30°	1615.1	1604.9	1600.3	1597.3	1607.5	1604.9	1586.1	1595.3	1580.0	1571.9	1577.5
32.5°	1467.3	1461.7	1449.6	1442.4	1452.1	1432.8	1421.1	1421.1	1415.0	1401.3	1404.4
35°	1262.2	1253.6	1242.4	1236.3	1237.8	1211.9	1192.6	1196.7	1176.4	1172.8	1174.4
37.5°	1002.8	988.5	984.5	971.8	974.8	952.0	925.6	926.1	915.4	904.3	900.7
40°	753.5	750.9	746.9	736.2	740.3	715.4	705.2	705.7	698.6	690.5	694.6
42.5°	582.4	574.2	571.7	568.1	569.2	565.1	551.9	553.4	547.3	545.3	543.3
45°	473.2	464.6	458.5	461.5	461.5	457.0	451.9	454.9	451.9	447.8	449.8
47.5°	389.9	381.8	378.8	378.3	381.8	378.8	373.7	374.7	374.2	372.7	371.7
50°	311.2	309.2	306.7	305.1	306.7	305.7	301.1	303.6	305.1	300.1	301.6
52.5°	237.1	237.1	236.6	233.0	236.1	233.0	232.5	233.6	232.0	230.0	229.5
55°	173.6	172.1	169.6	169.1	170.1	169.1	168.1	168.6	169.6	164.5	164.5
57.5°	118.8	117.8	116.3	116.3	118.3	115.8	114.2	116.3	114.2	112.2	112.2
60°	76.2	75.7	74.1	74.1	74.1	73.6	72.1	72.6	73.6	70.6	71.1
62.5°	45.7	44.2	43.7	43.2	43.7	43.2	43.2	42.6	42.1	42.1	40.6
65°	24.9	23.9	22.8	23.4	23.4	22.8	22.8	22.8	21.8	21.3	20.8
67.5°	12.7	11.7	11.7	11.2	11.2	11.2	11.2	10.7	10.7	10.7	10.2
70°	8.1	7.6	7.1	7.1	7.1	6.6	6.6	6.6	6.6	6.6	6.1
72.5°	5.6	5.1	4.6	4.6	4.6	4.1	4.1	4.1	4.1	3.6	3.6
75°	4.1	3.6	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: P245385

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1994.3	1990.3	1992.8	2011.6	2003.5	2000.9	1979.6	1998.4
5°	2018.2	2015.2	2015.2	2036.5	2026.8	2024.8	2004.0	2020.2
7.5°	2040.5	2037.5	2038.0	2059.8	2052.2	2049.2	2028.4	2044.6
10°	2069.5	2067.5	2068.0	2088.8	2080.7	2077.6	2056.3	2073.0
12.5°	2086.7	2083.7	2083.7	2106.0	2096.9	2092.3	2072.0	2088.3
15°	2073.5	2069.0	2069.0	2091.3	2081.2	2074.6	2056.8	2072.0
17.5°	2028.4	2023.8	2023.8	2043.1	2035.5	2025.8	2007.5	2021.8
20°	1965.4	1959.8	1958.3	1980.6	1970.0	1961.3	1945.1	1958.8
22.5°	1894.3	1891.8	1887.2	1909.6	1899.9	1890.8	1873.5	1884.2
25°	1809.0	1805.0	1800.4	1822.2	1812.6	1803.4	1789.7	1798.4
27.5°	1702.9	1703.4	1700.9	1718.1	1708.5	1703.4	1686.7	1700.9
30°	1574.5	1568.9	1566.8	1587.1	1578.0	1571.4	1550.6	1564.3
32.5°	1406.9	1398.8	1388.1	1411.0	1395.2	1389.6	1371.9	1391.7
35°	1163.2	1160.7	1151.0	1170.3	1161.7	1151.5	1140.4	1157.1
37.5°	899.2	901.2	900.2	905.3	900.2	893.6	881.4	875.3
40°	686.4	681.4	677.3	686.4	675.8	675.8	668.7	676.3
42.5°	538.2	536.2	541.2	543.3	537.2	536.2	535.1	534.6
45°	444.3	444.3	445.3	447.3	445.3	444.3	441.2	439.2
47.5°	366.1	368.1	366.1	372.7	369.1	368.1	362.0	364.5
50°	296.5	294.0	296.5	298.5	299.1	296.0	293.0	294.5
52.5°	230.0	225.9	224.9	228.0	225.9	225.9	223.9	223.4
55°	162.0	163.5	160.9	163.5	162.5	160.9	159.4	161.5
57.5°	109.7	110.2	109.2	110.7	108.1	108.7	108.1	107.6
60°	71.1	69.1	69.1	70.6	68.0	68.0	67.5	67.5
62.5°	40.6	40.1	40.1	39.6	39.1	39.1	39.1	38.1
65°	20.8	20.3	19.8	19.8	19.8	19.8	19.3	19.3
67.5°	10.2	9.6	9.6	10.2	9.6	9.6	9.6	9.6
70°	6.1	6.1	5.6	6.1	5.6	5.6	5.6	5.6
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)