

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: P245439

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245439
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 EC8B30950 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2908.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

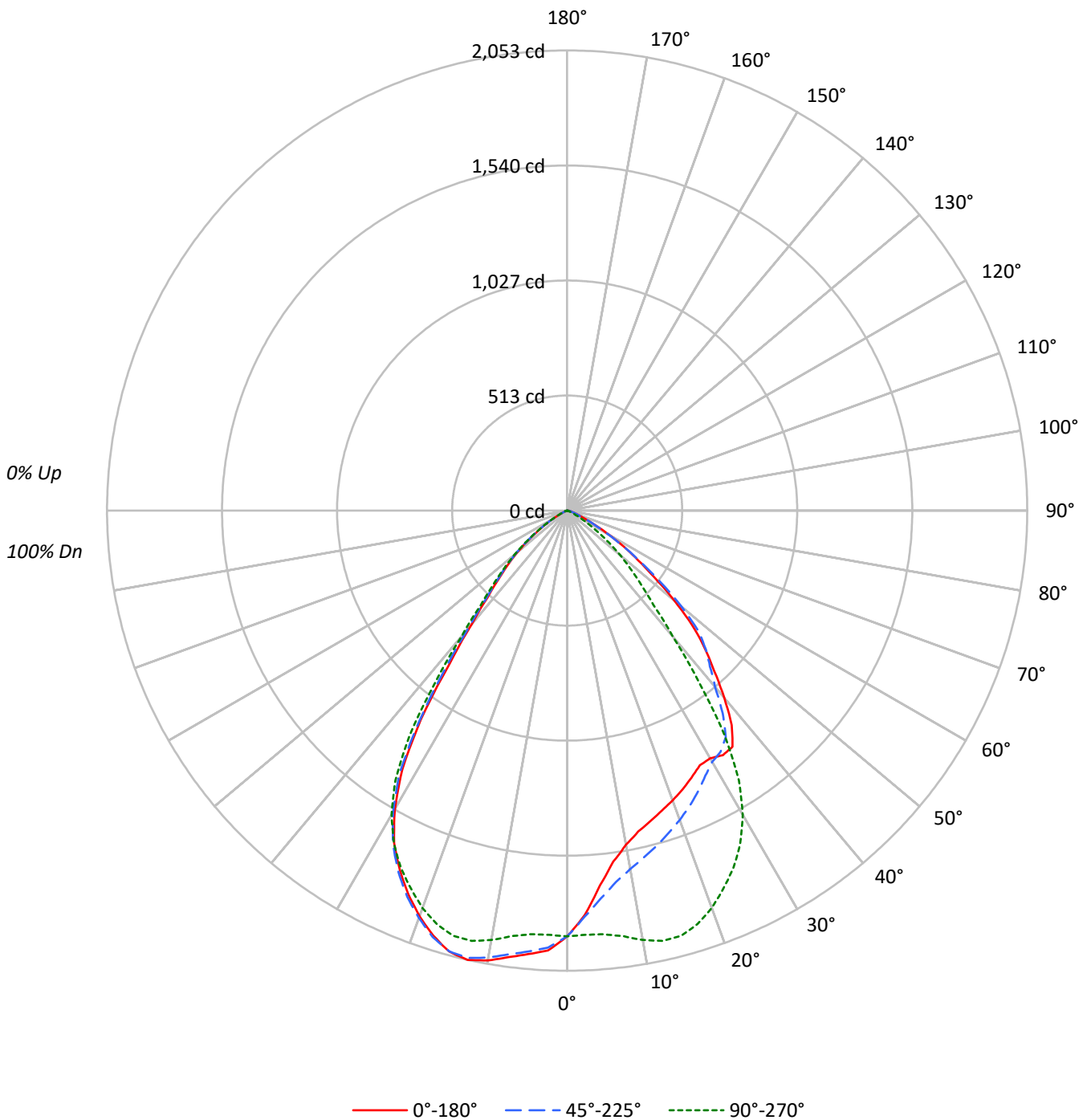
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

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°	58580	58580	58580
5°	51975	58726	61478
10°	47388	60908	63814
15°	45795	62686	65029
20°	45141	61916	63192
25°	44697	59780	60155
30°	45427	55789	54760
35°	48422	46167	42820
40°	43881	29554	26765
45°	37875	20222	18830
50°	29882	14752	13888
55°	20741	9070	8532
60°	13204	4588	4095
65°	6589	1824	1386
70°	3642	902	496
75°	2621	655	238
80°	2131	444	89
85°	2300	354	0



TEST NUMBER: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	6.1
10°-20°	511.4	17.6
20°-30°	742.3	25.5
30°-40°	731.1	25.1
40°-50°	458.3	15.8
50°-60°	221.1	7.6
60°-70°	53.5	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°	1430.7	49.2
0°-40°	2161.8	74.3
0°-60°	2841.2	97.7
0°-90°	2908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1900	1900	1900	1900	1900	
5°	1679	1736	1897	1974	1986	155
15°	1434	1547	1964	2036	2037	406
25°	1314	1382	1757	1781	1768	608
35°	1286	1234	1226	1156	1138	778
45°	868	874	464	444	432	664
55°	386	398	169	167	159	355
65°	90	89	25	22	19	103
75°	22	19	6	2	2	25
85°	6	5	1	0	0	7
90°	0	0	0	0	0	



TEST NUMBER: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1805.9	1794.4	1773.0	1798.9	1798.9	1784.4	1813.4	1795.9	1809.9	1831.9	1812.4
5°	1679.1	1669.6	1651.7	1679.1	1682.6	1669.1	1704.1	1691.1	1711.6	1738.5	1736.0
7.5°	1578.8	1566.8	1550.3	1578.8	1584.3	1575.3	1608.7	1602.7	1629.7	1664.6	1670.6
10°	1513.4	1500.9	1486.4	1512.4	1516.4	1510.4	1544.3	1540.9	1567.3	1607.7	1623.7
12.5°	1467.0	1456.5	1440.5	1468.0	1472.5	1464.0	1495.9	1494.4	1521.9	1564.3	1584.3
15°	1434.5	1422.1	1407.6	1431.0	1437.0	1427.5	1458.0	1455.0	1483.0	1524.9	1547.3
17.5°	1404.1	1392.6	1377.6	1399.6	1405.6	1395.6	1425.6	1420.6	1444.5	1484.5	1507.4
20°	1375.6	1363.2	1349.7	1372.1	1375.6	1364.2	1394.1	1387.6	1409.1	1446.0	1468.5
22.5°	1346.2	1333.2	1319.2	1341.2	1344.7	1333.2	1360.7	1353.2	1373.1	1406.6	1427.0
25°	1313.7	1301.8	1287.8	1308.3	1311.2	1298.8	1327.7	1318.2	1335.7	1365.2	1382.1
27.5°	1281.3	1269.8	1254.3	1275.3	1276.8	1264.8	1291.3	1278.3	1292.8	1319.7	1334.2
30°	1275.8	1262.8	1246.9	1263.8	1264.3	1248.9	1273.8	1258.3	1266.3	1286.3	1294.8
32.5°	1293.3	1280.3	1263.8	1277.8	1276.3	1259.3	1283.3	1264.3	1266.8	1277.3	1275.3
35°	1286.3	1270.8	1251.4	1266.3	1266.3	1245.9	1269.8	1247.4	1244.9	1246.4	1233.9
37.5°	1206.9	1194.9	1176.5	1191.0	1189.5	1174.0	1192.5	1174.0	1165.5	1162.0	1139.5
40°	1090.1	1075.7	1061.7	1077.2	1078.6	1062.2	1086.1	1065.2	1062.7	1052.7	1026.2
42.5°	971.8	966.8	953.4	966.3	973.3	959.4	979.3	969.3	970.8	968.3	943.4
45°	868.5	860.0	850.0	865.0	869.5	862.5	882.5	876.5	882.5	895.0	874.5
47.5°	757.2	748.7	737.7	753.7	761.7	748.7	765.7	763.7	772.7	794.1	792.1
50°	622.9	616.9	614.9	616.9	621.9	615.9	627.9	628.4	634.4	663.9	665.9
52.5°	493.2	491.7	484.7	491.2	491.2	481.7	493.7	488.2	494.2	514.1	527.1
55°	385.8	384.3	379.8	385.8	379.3	375.9	379.3	373.9	369.4	384.8	398.3
57.5°	300.5	295.5	290.0	292.5	292.0	284.5	288.5	282.0	278.5	284.0	296.0
60°	214.1	212.6	207.6	210.1	212.1	206.6	210.6	207.6	201.7	206.1	206.6
62.5°	142.3	143.3	140.3	140.8	139.3	138.3	140.8	142.3	140.8	138.8	139.3
65°	90.3	89.8	89.3	89.8	90.8	88.8	90.3	91.3	89.8	89.8	89.3
67.5°	59.9	58.4	56.9	57.9	58.9	57.4	58.9	58.4	58.9	58.4	56.9
70°	40.4	39.9	39.4	39.9	39.9	38.9	39.9	39.4	39.9	39.4	37.9
72.5°	29.4	29.4	29.0	29.4	29.4	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



TEST NUMBER: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1838.3	1840.8	1835.3	1843.8	1876.8	1850.3	1861.3	1864.8	1889.8	1894.2	1891.3
5°	1768.5	1779.4	1786.4	1805.4	1841.8	1822.9	1842.3	1854.8	1886.8	1897.2	1899.7
7.5°	1713.6	1736.5	1753.5	1784.4	1827.4	1812.9	1842.3	1862.8	1901.7	1915.2	1921.7
10°	1672.6	1707.6	1737.0	1779.4	1827.9	1818.4	1856.8	1885.8	1929.2	1945.2	1953.1
12.5°	1641.7	1684.1	1723.5	1777.4	1829.9	1825.4	1871.8	1904.7	1950.6	1966.6	1976.1
15°	1607.7	1656.7	1702.6	1763.0	1819.4	1818.4	1868.3	1903.2	1950.2	1963.6	1972.6
17.5°	1567.3	1619.7	1670.1	1735.5	1791.4	1792.4	1842.8	1877.3	1923.2	1934.2	1940.2
20°	1526.4	1578.3	1628.7	1696.1	1751.0	1752.5	1801.9	1833.9	1877.8	1886.8	1888.3
22.5°	1483.0	1531.4	1581.8	1648.7	1701.6	1702.6	1751.5	1781.4	1818.9	1823.4	1827.4
25°	1433.5	1481.0	1528.4	1594.8	1645.2	1648.2	1692.6	1719.0	1753.5	1757.0	1758.5
27.5°	1382.1	1421.1	1466.5	1523.4	1574.3	1572.3	1614.2	1644.2	1675.1	1673.1	1672.6
30°	1330.2	1362.7	1390.6	1445.5	1483.0	1484.5	1523.9	1538.4	1570.8	1566.8	1566.3
32.5°	1293.8	1302.3	1309.8	1337.7	1373.1	1360.7	1387.6	1405.6	1428.0	1426.6	1427.0
35°	1226.9	1211.4	1189.0	1193.0	1214.4	1194.9	1209.4	1208.9	1231.9	1226.4	1232.9
37.5°	1112.6	1068.7	1018.8	990.3	994.3	969.8	964.8	976.8	984.8	969.3	974.8
40°	990.8	925.9	848.0	783.2	779.7	749.2	743.7	731.7	747.2	734.2	738.2
42.5°	901.0	815.1	712.8	633.9	616.9	591.5	576.5	574.5	579.0	570.0	567.5
45°	832.1	740.7	623.4	533.1	514.1	486.7	471.7	466.2	466.7	463.7	461.2
47.5°	751.2	659.4	540.6	448.2	426.8	400.8	385.8	382.3	384.3	380.3	377.4
50°	639.4	557.0	448.7	364.4	345.4	326.4	314.5	311.0	310.5	307.5	305.5
52.5°	519.1	450.7	356.9	286.5	269.5	251.1	242.6	238.1	238.6	235.6	232.6
55°	401.8	359.4	276.5	216.6	201.2	186.7	178.7	173.2	171.7	168.7	167.2
57.5°	299.0	270.5	207.1	156.2	147.2	133.3	125.3	118.8	117.8	116.3	115.8
60°	209.6	189.2	145.7	111.3	100.8	92.3	84.4	77.9	74.9	74.4	72.9
62.5°	135.8	123.3	95.8	74.4	66.4	60.4	52.4	47.9	45.9	43.9	44.4
65°	84.4	74.9	59.9	47.9	43.4	38.9	32.9	29.0	27.0	25.0	25.5
67.5°	52.4	46.9	37.9	30.9	28.0	24.5	20.0	17.0	15.5	14.0	13.0
70°	35.4	30.4	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



TEST NUMBER: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1916.7	1918.2	1926.7	1920.2	1936.7	1948.7	1942.7	1956.1	1951.6	1950.6	1966.1
5°	1929.7	1933.2	1944.7	1938.7	1956.6	1969.6	1963.6	1978.6	1974.1	1973.1	1989.1
7.5°	1954.6	1958.1	1968.1	1963.1	1982.1	1993.6	1986.1	2002.6	1996.6	1996.1	2011.5
10°	1986.1	1991.1	1999.6	1994.6	2012.0	2022.0	2014.5	2030.5	2025.0	2022.5	2039.5
12.5°	2009.5	2013.0	2021.5	2017.5	2034.5	2042.0	2035.5	2051.0	2044.0	2042.0	2057.0
15°	2004.1	2007.6	2014.5	2011.0	2027.0	2034.0	2025.5	2042.5	2035.5	2031.5	2045.0
17.5°	1969.1	1971.1	1976.1	1972.6	1989.6	1994.1	1984.6	2001.6	1995.1	1988.1	2001.1
20°	1917.7	1916.7	1919.7	1918.2	1932.2	1934.7	1928.7	1941.2	1933.7	1929.7	1937.2
22.5°	1853.8	1852.8	1854.8	1850.8	1864.8	1866.3	1857.3	1872.3	1864.8	1857.3	1869.8
25°	1782.9	1777.4	1776.4	1777.9	1787.4	1788.9	1779.4	1790.4	1780.9	1775.0	1786.9
27.5°	1695.6	1688.6	1687.1	1688.6	1698.1	1691.1	1683.1	1691.1	1681.6	1676.1	1683.6
30°	1587.8	1577.8	1573.3	1570.3	1580.3	1577.8	1559.3	1568.3	1553.3	1545.3	1550.8
32.5°	1442.5	1437.0	1425.1	1418.1	1427.5	1408.6	1397.1	1397.1	1391.1	1377.6	1380.6
35°	1240.9	1232.4	1221.4	1215.4	1216.9	1191.5	1172.5	1176.5	1156.5	1153.0	1154.5
37.5°	985.8	971.8	967.8	955.4	958.4	935.9	909.9	910.4	900.0	889.0	885.5
40°	740.7	738.2	734.2	723.8	727.8	703.3	693.3	693.8	686.8	678.8	682.8
42.5°	572.5	564.5	562.0	558.5	559.5	555.5	542.6	544.1	538.1	536.1	534.1
45°	465.2	456.7	450.7	453.7	453.7	449.2	444.2	447.2	444.2	440.2	442.2
47.5°	383.3	375.4	372.4	371.9	375.4	372.4	367.4	368.4	367.9	366.4	365.4
50°	306.0	304.0	301.5	300.0	301.5	300.5	296.0	298.5	300.0	295.0	296.5
52.5°	233.1	233.1	232.6	229.1	232.1	229.1	228.6	229.6	228.1	226.1	225.6
55°	170.7	169.2	166.7	166.2	167.2	166.2	165.2	165.7	166.7	161.7	161.7
57.5°	116.8	115.8	114.3	114.3	116.3	113.8	112.3	114.3	112.3	110.3	110.3
60°	74.9	74.4	72.9	72.9	72.9	72.4	70.9	71.4	72.4	69.4	69.9
62.5°	44.9	43.4	42.9	42.4	42.9	42.4	42.4	41.9	41.4	41.4	39.9
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: P245439

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1960.6	1956.6	1959.1	1977.6	1969.6	1967.1	1946.2	1964.6
5°	1984.1	1981.1	1981.1	2002.1	1992.6	1990.6	1970.1	1986.1
7.5°	2006.1	2003.1	2003.6	2025.0	2017.5	2014.5	1994.1	2010.0
10°	2034.5	2032.5	2033.0	2053.5	2045.5	2042.5	2021.5	2038.0
12.5°	2051.5	2048.5	2048.5	2070.4	2061.5	2057.0	2037.0	2053.0
15°	2038.5	2034.0	2034.0	2056.0	2046.0	2039.5	2022.0	2037.0
17.5°	1994.1	1989.6	1989.6	2008.6	2001.1	1991.6	1973.6	1987.6
20°	1932.2	1926.7	1925.2	1947.2	1936.7	1928.2	1912.2	1925.7
22.5°	1862.3	1859.8	1855.3	1877.3	1867.8	1858.8	1841.8	1852.3
25°	1778.4	1774.5	1770.0	1791.4	1781.9	1773.0	1759.5	1768.0
27.5°	1674.1	1674.6	1672.1	1689.1	1679.6	1674.6	1658.2	1672.1
30°	1547.8	1542.4	1540.4	1560.3	1551.3	1544.8	1524.4	1537.9
32.5°	1383.1	1375.1	1364.7	1387.1	1371.6	1366.2	1348.7	1368.2
35°	1143.5	1141.0	1131.6	1150.5	1142.0	1132.1	1121.1	1137.5
37.5°	884.0	886.0	885.0	890.0	885.0	878.5	866.5	860.5
40°	674.8	669.8	665.9	674.8	664.4	664.4	657.4	664.9
42.5°	529.1	527.1	532.1	534.1	528.1	527.1	526.1	525.6
45°	436.7	436.7	437.7	439.7	437.7	436.7	433.8	431.8
47.5°	359.9	361.9	359.9	366.4	362.9	361.9	355.9	358.4
50°	291.5	289.0	291.5	293.5	294.0	291.0	288.0	289.5
52.5°	226.1	222.1	221.1	224.1	222.1	222.1	220.1	219.6
55°	159.2	160.7	158.2	160.7	159.7	158.2	156.7	158.7
57.5°	107.8	108.3	107.3	108.8	106.3	106.8	106.3	105.8
60°	69.9	67.9	67.9	69.4	66.9	66.9	66.4	66.4
62.5°	39.9	39.4	39.4	38.9	38.4	38.4	38.4	37.4
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)