

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: P244101

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244101
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 EC8B30835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

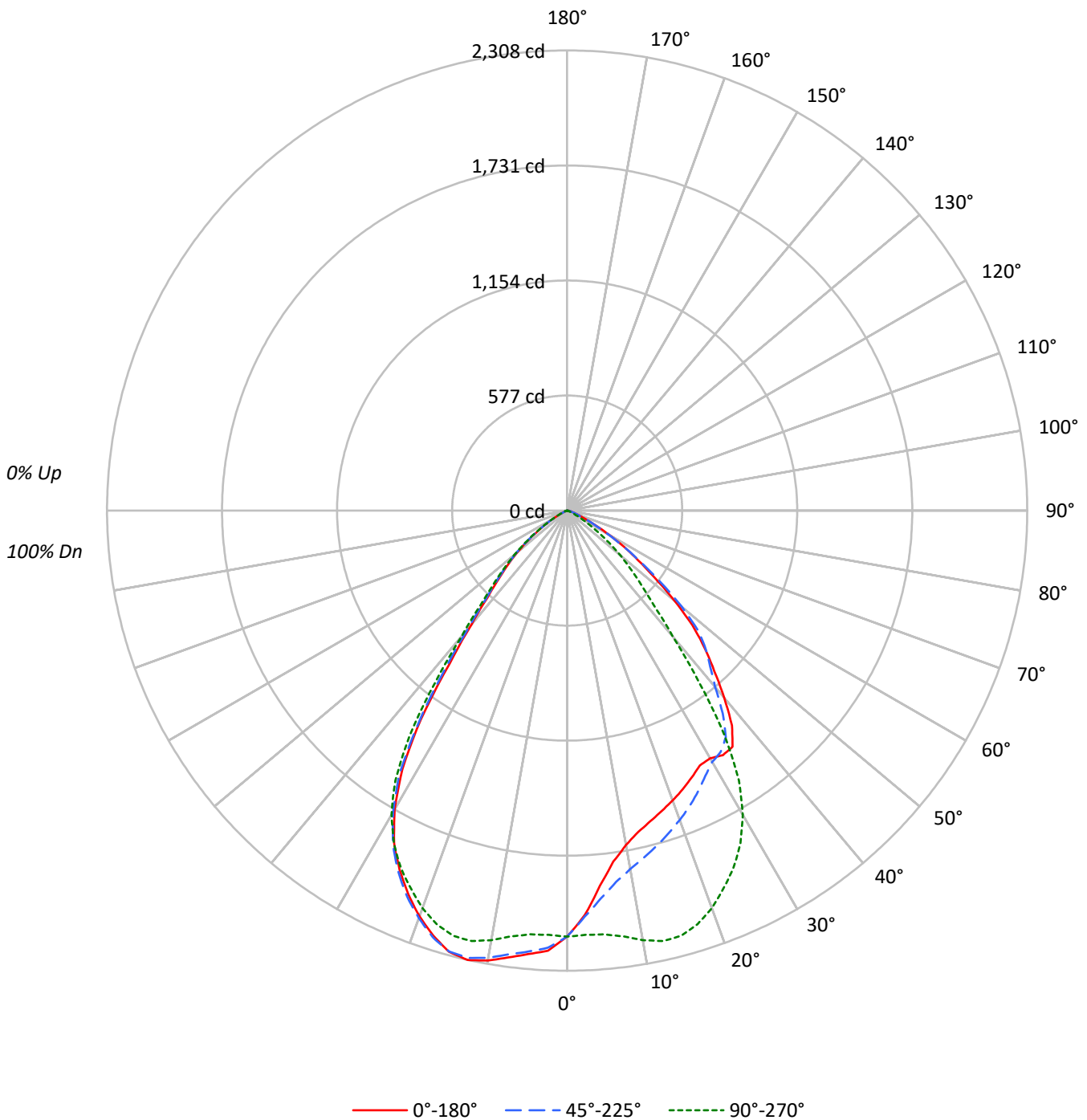
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	65873	65873	65873
5°	58444	66037	69130
10°	53287	68489	71758
15°	51497	70492	73125
20°	50762	69621	71058
25°	50264	67221	67640
30°	51081	62735	61575
35°	54449	51915	48154
40°	49343	33234	30094
45°	42589	22738	21172
50°	33605	16584	15615
55°	23327	10199	9596
60°	14851	5156	4601
65°	7413	2050	1554
70°	4102	1010	559
75°	2943	739	262
80°	2397	497	107
85°	2583	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	6.1
10°-20°	575.1	17.6
20°-30°	834.7	25.5
30°-40°	822.1	25.1
40°-50°	515.3	15.8
50°-60°	248.7	7.6
60°-70°	60.2	1.8
70°-80°	12.2	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°	1608.8	49.2
0°-40°	2430.9	74.3
0°-60°	3194.9	97.7
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2136	2136	2136	2136	2136	
5°	1888	1952	2133	2220	2233	175
15°	1613	1740	2208	2289	2291	456
25°	1477	1554	1976	2003	1988	684
35°	1446	1388	1379	1300	1279	875
45°	977	983	521	500	486	747
55°	434	448	190	188	178	399
65°	102	100	28	24	21	116
75°	25	21	6	3	2	28
85°	7	6	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°	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2
2.5°	2030.7	2017.8	1993.7	2022.8	2022.8	2006.6	2039.1	2019.5	2035.2	2059.9	2038.0
5°	1888.1	1877.5	1857.3	1888.1	1892.1	1876.9	1916.2	1901.6	1924.6	1954.9	1952.1
7.5°	1775.3	1761.9	1743.3	1775.3	1781.5	1771.4	1809.0	1802.3	1832.6	1871.9	1878.6
10°	1701.8	1687.8	1671.5	1700.7	1705.2	1698.4	1736.6	1732.7	1762.4	1807.9	1825.8
12.5°	1649.6	1637.8	1619.8	1650.7	1655.8	1646.2	1682.2	1680.5	1711.3	1759.0	1781.5
15°	1613.1	1599.1	1582.8	1609.2	1615.9	1605.3	1639.5	1636.1	1667.6	1714.7	1740.0
17.5°	1578.9	1566.0	1549.1	1573.8	1580.6	1569.3	1603.0	1597.4	1624.3	1669.2	1695.1
20°	1546.9	1532.9	1517.7	1543.0	1546.9	1534.0	1567.6	1560.4	1584.5	1626.0	1651.3
22.5°	1513.8	1499.2	1483.5	1508.2	1512.1	1499.2	1530.0	1521.6	1544.1	1581.7	1604.7
25°	1477.3	1463.8	1448.1	1471.1	1474.5	1460.4	1493.0	1482.3	1502.0	1535.1	1554.2
27.5°	1440.8	1427.9	1410.5	1434.1	1435.7	1422.3	1452.0	1437.4	1453.7	1484.0	1500.3
30°	1434.6	1420.0	1402.1	1421.2	1421.7	1404.3	1432.4	1415.0	1424.0	1446.4	1456.0
32.5°	1454.3	1439.7	1421.2	1436.9	1435.2	1416.1	1443.0	1421.7	1424.5	1436.3	1434.1
35°	1446.4	1429.0	1407.1	1424.0	1424.0	1401.0	1427.9	1402.6	1399.8	1401.5	1387.5
37.5°	1357.2	1343.7	1322.9	1339.2	1337.5	1320.1	1340.9	1320.1	1310.6	1306.7	1281.4
40°	1225.8	1209.6	1193.8	1211.2	1212.9	1194.4	1221.3	1197.8	1195.0	1183.7	1154.0
42.5°	1092.8	1087.2	1072.0	1086.6	1094.5	1078.8	1101.2	1090.0	1091.7	1088.9	1060.8
45°	976.6	967.1	955.9	972.7	977.7	969.9	992.3	985.6	992.3	1006.4	983.4
47.5°	851.5	841.9	829.6	847.5	856.5	841.9	861.0	858.8	868.9	893.0	890.7
50°	700.5	693.7	691.5	693.7	699.4	692.6	706.1	706.6	713.4	746.5	748.7
52.5°	554.5	552.9	545.0	552.3	552.3	541.6	555.1	548.9	555.7	578.1	592.7
55°	433.9	432.2	427.1	433.9	426.6	422.6	426.6	420.4	415.3	432.7	447.9
57.5°	337.9	332.3	326.1	328.9	328.3	319.9	324.4	317.1	313.2	319.4	332.8
60°	240.8	239.1	233.5	236.3	238.5	232.4	236.9	233.5	226.8	231.8	232.4
62.5°	160.0	161.1	157.7	158.3	156.6	155.5	158.3	160.0	158.3	156.0	156.6
65°	101.6	101.0	100.5	101.0	102.2	99.9	101.6	102.7	101.0	101.0	100.5
67.5°	67.4	65.7	64.0	65.1	66.2	64.5	66.2	65.7	66.2	65.7	64.0
70°	45.5	44.9	44.3	44.9	44.9	43.8	44.9	44.3	44.9	44.3	42.7
72.5°	33.1	33.1	32.6	33.1	33.1	32.0	32.6	31.4	32.0	31.4	30.3
75°	24.7	24.7	24.1	24.7	24.1	23.6	24.1	23.6	22.5	22.5	21.3
77.5°	18.0	18.0	18.0	18.0	18.0	17.4	17.4	16.8	16.3	15.7	15.7
80°	13.5	12.9	12.9	12.9	12.9	12.3	12.9	12.3	11.8	11.2	10.7
82.5°	9.5	10.1	9.5	9.5	9.5	9.0	9.5	9.0	9.0	8.4	7.3
85°	7.3	7.3	7.3	7.3	7.3	6.7	6.7	6.7	6.2	6.2	5.6
87.5°	3.9	3.9	3.9	4.5	3.9	3.9	3.9	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2
2.5°	2067.2	2070.0	2063.8	2073.4	2110.4	2080.7	2093.0	2096.9	2125.0	2130.1	2126.7
5°	1988.6	2001.0	2008.8	2030.1	2071.1	2049.8	2071.7	2085.7	2121.6	2133.4	2136.2
7.5°	1926.9	1952.7	1971.8	2006.6	2054.8	2038.6	2071.7	2094.7	2138.5	2153.6	2160.9
10°	1880.8	1920.1	1953.2	2001.0	2055.4	2044.7	2088.0	2120.5	2169.3	2187.3	2196.3
12.5°	1846.0	1893.8	1938.1	1998.7	2057.6	2052.6	2104.8	2141.8	2193.5	2211.4	2222.1
15°	1807.9	1862.9	1914.5	1982.4	2045.9	2044.7	2100.9	2140.2	2192.9	2208.1	2218.2
17.5°	1762.4	1821.3	1878.0	1951.6	2014.4	2015.5	2072.2	2111.0	2162.6	2175.0	2181.7
20°	1716.4	1774.8	1831.5	1907.2	1969.0	1970.6	2026.2	2062.1	2111.5	2121.6	2123.3
22.5°	1667.6	1722.0	1778.7	1853.9	1913.4	1914.5	1969.5	2003.2	2045.3	2050.3	2054.8
25°	1612.0	1665.3	1718.6	1793.3	1850.0	1853.3	1903.3	1933.0	1971.8	1975.7	1977.4
27.5°	1554.2	1598.0	1649.0	1713.0	1770.3	1768.0	1815.2	1848.9	1883.6	1881.4	1880.8
30°	1495.8	1532.3	1563.7	1625.5	1667.6	1669.2	1713.6	1729.9	1766.3	1761.9	1761.3
32.5°	1454.8	1464.4	1472.8	1504.2	1544.1	1530.0	1560.4	1580.6	1605.8	1604.1	1604.7
35°	1379.6	1362.2	1337.0	1341.5	1365.6	1343.7	1360.0	1359.4	1385.2	1379.1	1386.4
37.5°	1251.1	1201.7	1145.6	1113.6	1118.1	1090.6	1085.0	1098.4	1107.4	1090.0	1096.2
40°	1114.1	1041.2	953.6	880.6	876.7	842.5	836.3	822.8	840.2	825.6	830.1
42.5°	1013.1	916.6	801.5	712.8	693.7	665.1	648.3	646.0	651.1	641.0	638.2
45°	935.7	832.9	701.0	599.4	578.1	547.2	530.4	524.2	524.8	521.4	518.6
47.5°	844.7	741.4	607.9	504.0	479.9	450.7	433.9	429.9	432.2	427.7	424.3
50°	719.0	626.4	504.6	409.7	388.4	367.1	353.6	349.7	349.1	345.7	343.5
52.5°	583.7	506.8	401.3	322.2	303.1	282.3	272.8	267.7	268.3	264.9	261.6
55°	451.8	404.1	310.9	243.6	226.2	209.9	200.9	194.8	193.1	189.7	188.0
57.5°	336.2	304.2	232.9	175.7	165.6	149.9	140.9	133.6	132.5	130.8	130.2
60°	235.7	212.7	163.9	125.2	113.4	103.8	94.9	87.6	84.2	83.6	81.9
62.5°	152.7	138.6	107.8	83.6	74.6	67.9	58.9	53.9	51.6	49.4	50.0
65°	94.9	84.2	67.4	53.9	48.8	43.8	37.0	32.6	30.3	28.1	28.6
67.5°	58.9	52.8	42.7	34.8	31.4	27.5	22.5	19.1	17.4	15.7	14.6
70°	39.9	34.2	29.2	24.7	22.5	19.6	16.3	13.5	12.3	11.2	10.1
72.5°	28.1	25.3	21.3	18.5	16.8	14.6	12.3	10.7	9.5	8.4	7.3
75°	20.2	18.0	15.7	13.5	12.3	11.2	9.5	8.4	7.3	6.2	5.1
77.5°	14.6	12.9	11.2	10.1	9.5	7.9	6.7	6.2	5.6	4.5	3.4
80°	10.1	9.0	7.3	6.7	6.7	5.6	5.1	4.5	3.9	2.8	2.2
82.5°	6.7	6.2	5.6	5.1	4.5	3.9	3.9	2.8	2.2	1.7	1.1
85°	5.1	4.5	3.9	3.4	3.4	2.8	2.2	1.7	1.7	1.1	0.6
87.5°	2.8	2.8	2.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2
2.5°	2155.3	2157.0	2166.5	2159.2	2177.8	2191.2	2184.5	2199.6	2194.6	2193.5	2210.9
5°	2169.9	2173.8	2186.7	2180.0	2200.2	2214.8	2208.1	2224.9	2219.9	2218.7	2236.7
7.5°	2198.0	2201.9	2213.1	2207.5	2228.8	2241.7	2233.3	2251.8	2245.1	2244.6	2262.0
10°	2233.3	2238.9	2248.5	2242.9	2262.5	2273.7	2265.3	2283.3	2277.1	2274.3	2293.4
12.5°	2259.7	2263.6	2273.2	2268.7	2287.8	2296.2	2288.9	2306.3	2298.4	2296.2	2313.0
15°	2253.5	2257.5	2265.3	2261.4	2279.4	2287.2	2277.7	2296.8	2288.9	2284.4	2299.6
17.5°	2214.2	2216.5	2222.1	2218.2	2237.3	2242.3	2231.6	2250.7	2243.4	2235.6	2250.2
20°	2156.4	2155.3	2158.7	2157.0	2172.7	2175.5	2168.8	2182.8	2174.4	2169.9	2178.3
22.5°	2084.6	2083.5	2085.7	2081.2	2096.9	2098.6	2088.5	2105.4	2096.9	2088.5	2102.5
25°	2004.9	1998.7	1997.6	1999.3	2009.9	2011.6	2001.0	2013.3	2002.6	1995.9	2009.4
27.5°	1906.7	1898.8	1897.1	1898.8	1909.5	1901.6	1892.6	1901.6	1890.9	1884.8	1893.2
30°	1785.4	1774.2	1769.1	1765.8	1777.0	1774.2	1753.4	1763.5	1746.7	1737.7	1743.9
32.5°	1622.1	1615.9	1602.4	1594.6	1605.3	1583.9	1571.0	1571.0	1564.3	1549.1	1552.5
35°	1395.3	1385.8	1373.4	1366.7	1368.4	1339.8	1318.4	1322.9	1300.5	1296.6	1298.2
37.5°	1108.5	1092.8	1088.3	1074.3	1077.7	1052.4	1023.2	1023.8	1012.0	999.6	995.7
40°	832.9	830.1	825.6	813.9	818.3	790.8	779.6	780.2	772.3	763.3	767.8
42.5°	643.8	634.8	632.0	628.1	629.2	624.7	610.1	611.8	605.1	602.8	600.6
45°	523.1	513.6	506.8	510.2	510.2	505.2	499.5	502.9	499.5	495.0	497.3
47.5°	431.1	422.1	418.7	418.2	422.1	418.7	413.1	414.2	413.7	412.0	410.9
50°	344.1	341.8	339.0	337.3	339.0	337.9	332.8	335.6	337.3	331.7	333.4
52.5°	262.1	262.1	261.6	257.6	261.0	257.6	257.1	258.2	256.5	254.3	253.7
55°	192.0	190.3	187.5	186.9	188.0	186.9	185.8	186.3	187.5	181.9	181.9
57.5°	131.3	130.2	128.5	128.5	130.8	128.0	126.3	128.5	126.3	124.0	124.0
60°	84.2	83.6	81.9	81.9	81.9	81.4	79.7	80.3	81.4	78.0	78.6
62.5°	50.5	48.8	48.3	47.7	48.3	47.7	47.7	47.1	46.6	46.6	44.9
65°	27.5	26.4	25.3	25.8	25.8	25.3	25.3	25.3	24.1	23.6	23.0
67.5°	14.0	12.9	12.9	12.3	12.3	12.3	12.3	11.8	11.8	11.8	11.2
70°	9.0	8.4	7.9	7.9	7.9	7.3	7.3	7.3	7.3	7.3	6.7
72.5°	6.2	5.6	5.1	5.1	5.1	4.5	4.5	4.5	4.5	3.9	3.9
75°	4.5	3.9	3.4	3.4	3.4	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.2	2.2	2.2	2.2	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: P244101

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2	2136.2
2.5°	2204.7	2200.2	2203.0	2223.8	2214.8	2212.0	2188.4	2209.2
5°	2231.1	2227.7	2227.7	2251.3	2240.6	2238.4	2215.4	2233.3
7.5°	2255.8	2252.4	2253.0	2277.1	2268.7	2265.3	2242.3	2260.3
10°	2287.8	2285.5	2286.1	2309.1	2300.1	2296.8	2273.2	2291.7
12.5°	2306.9	2303.5	2303.5	2328.2	2318.1	2313.0	2290.6	2308.5
15°	2292.3	2287.2	2287.2	2311.9	2300.7	2293.4	2273.7	2290.6
17.5°	2242.3	2237.3	2237.3	2258.6	2250.2	2239.5	2219.3	2235.0
20°	2172.7	2166.5	2164.8	2189.5	2177.8	2168.2	2150.3	2165.4
22.5°	2094.1	2091.3	2086.3	2111.0	2100.3	2090.2	2071.1	2082.9
25°	1999.8	1995.3	1990.3	2014.4	2003.8	1993.7	1978.5	1988.0
27.5°	1882.5	1883.1	1880.3	1899.4	1888.7	1883.1	1864.6	1880.3
30°	1740.5	1734.3	1732.1	1754.6	1744.5	1737.2	1714.1	1729.3
32.5°	1555.3	1546.3	1534.5	1559.8	1542.4	1536.2	1516.6	1538.5
35°	1285.9	1283.1	1272.4	1293.7	1284.2	1273.0	1260.6	1279.2
37.5°	994.0	996.3	995.1	1000.8	995.1	987.8	974.4	967.6
40°	758.8	753.2	748.7	758.8	747.1	747.1	739.2	747.6
42.5°	595.0	592.7	598.3	600.6	593.8	592.7	591.6	591.0
45°	491.1	491.1	492.2	494.5	492.2	491.1	487.8	485.5
47.5°	404.7	406.9	404.7	412.0	408.0	406.9	400.2	403.0
50°	327.8	325.0	327.8	330.0	330.6	327.2	323.9	325.5
52.5°	254.3	249.8	248.6	252.0	249.8	249.8	247.5	247.0
55°	179.0	180.7	177.9	180.7	179.6	177.9	176.2	178.5
57.5°	121.2	121.8	120.7	122.4	119.6	120.1	119.6	119.0
60°	78.6	76.3	76.3	78.0	75.2	75.2	74.6	74.6
62.5°	44.9	44.3	44.3	43.8	43.2	43.2	43.2	42.1
65°	23.0	22.5	21.9	21.9	21.9	21.9	21.3	21.3
67.5°	11.2	10.7	10.7	11.2	10.7	10.7	10.7	10.7
70°	6.7	6.7	6.2	6.7	6.2	6.2	6.2	6.2
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)