

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: P244089

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244089
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 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

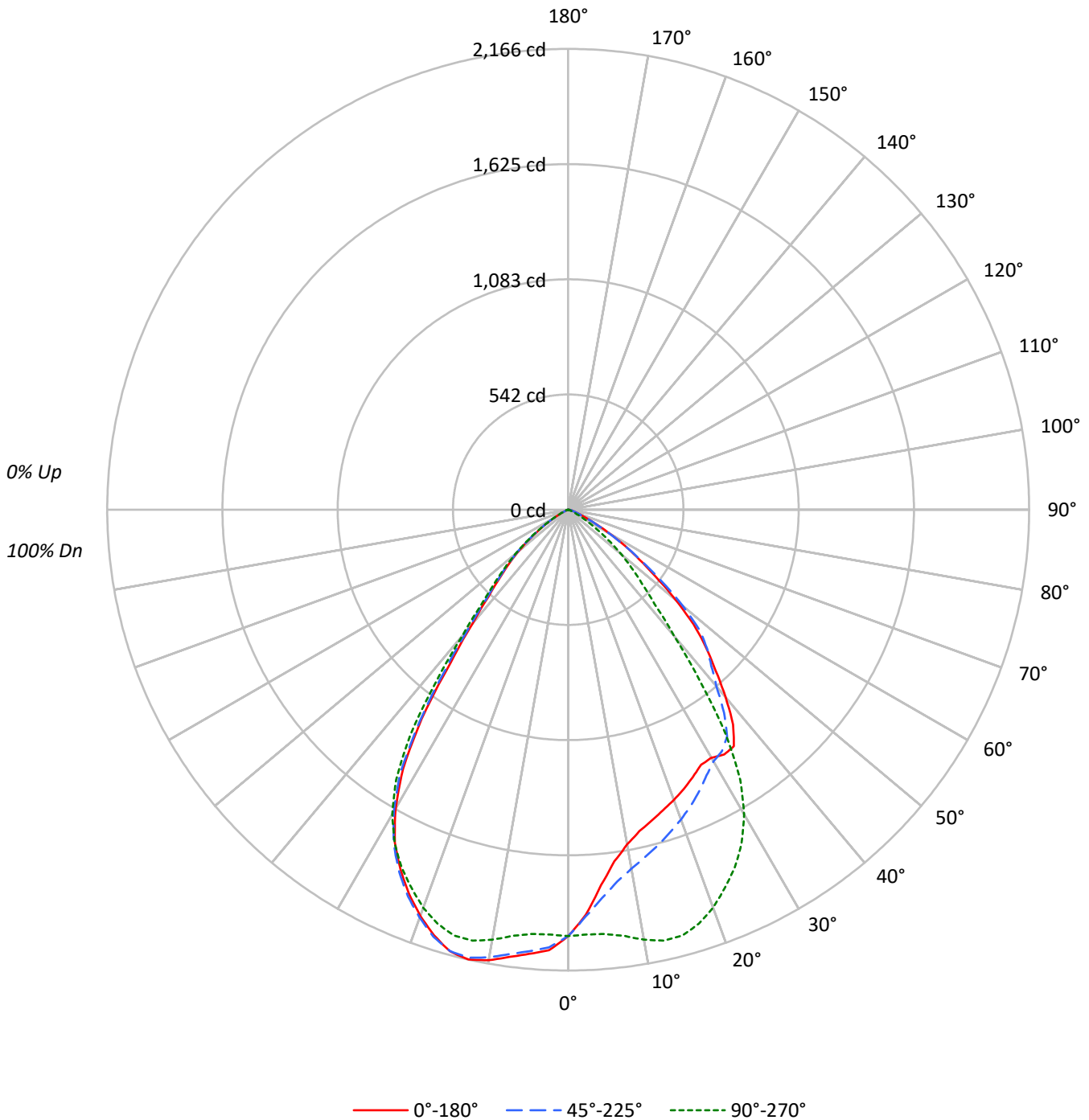
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61805	61805	61805
5°	54835	61958	64861
10°	49996	64259	67324
15°	48317	66137	68608
20°	47625	65322	66668
25°	47157	63070	63462
30°	47927	58858	57772
35°	51087	48708	45177
40°	46296	31181	28234
45°	39959	21334	19864
50°	31528	15562	14651
55°	21886	9570	9005
60°	13932	4841	4317
65°	6954	1919	1459
70°	3850	947	523
75°	2764	691	250
80°	2237	462	89
85°	2406	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	6.1
10°-20°	539.5	17.6
20°-30°	783.1	25.5
30°-40°	771.3	25.1
40°-50°	483.5	15.8
50°-60°	233.3	7.6
60°-70°	56.5	1.8
70°-80°	11.4	0.4
80°-90°	2.6	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°	1509.5	49.2
0°-40°	2280.7	74.3
0°-60°	2997.5	97.7
0°-90°	3068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2004	2004	2004	2004	2004	
5°	1772	1832	2002	2083	2095	164
15°	1514	1632	2072	2148	2149	428
25°	1386	1458	1854	1879	1865	641
35°	1357	1302	1294	1220	1200	821
45°	916	923	489	469	456	701
55°	407	420	178	176	168	375
65°	95	94	26	23	20	109
75°	23	20	6	3	2	26
85°	7	5	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°	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3
2.5°	1905.3	1893.1	1870.5	1897.9	1897.9	1882.6	1913.2	1894.7	1909.5	1932.6	1912.1
5°	1771.5	1761.5	1742.5	1771.5	1775.2	1761.0	1797.8	1784.1	1805.7	1834.2	1831.5
7.5°	1665.7	1653.0	1635.6	1665.7	1671.4	1662.0	1697.3	1690.9	1719.4	1756.2	1762.6
10°	1596.7	1583.5	1568.2	1595.6	1599.8	1593.5	1629.3	1625.6	1653.5	1696.2	1713.0
12.5°	1547.7	1536.6	1519.8	1548.7	1553.5	1544.5	1578.2	1576.7	1605.6	1650.4	1671.4
15°	1513.5	1500.3	1485.0	1509.8	1516.1	1506.1	1538.2	1535.1	1564.5	1608.8	1632.5
17.5°	1481.3	1469.2	1453.4	1476.6	1482.9	1472.4	1504.0	1498.7	1524.0	1566.1	1590.3
20°	1451.3	1438.2	1423.9	1447.6	1451.3	1439.2	1470.8	1464.0	1486.6	1525.6	1549.3
22.5°	1420.3	1406.6	1391.8	1415.0	1418.7	1406.6	1435.5	1427.6	1448.7	1484.0	1505.6
25°	1386.0	1373.4	1358.6	1380.2	1383.4	1370.2	1400.8	1390.8	1409.2	1440.3	1458.2
27.5°	1351.8	1339.7	1323.4	1345.5	1347.1	1334.4	1362.3	1348.6	1363.9	1392.3	1407.6
30°	1346.0	1332.3	1315.5	1333.4	1333.9	1317.6	1343.9	1327.6	1336.0	1357.1	1366.0
32.5°	1364.4	1350.7	1333.4	1348.1	1346.5	1328.6	1353.9	1333.9	1336.5	1347.6	1345.5
35°	1357.1	1340.7	1320.2	1336.0	1336.0	1314.4	1339.7	1316.0	1313.4	1314.9	1301.8
37.5°	1273.3	1260.7	1241.2	1256.5	1254.9	1238.6	1258.1	1238.6	1229.6	1225.9	1202.2
40°	1150.1	1134.8	1120.1	1136.4	1138.0	1120.6	1145.9	1123.8	1121.1	1110.6	1082.7
42.5°	1025.3	1020.0	1005.8	1019.5	1026.9	1012.1	1033.2	1022.7	1024.2	1021.6	995.3
45°	916.3	907.3	896.8	912.6	917.3	910.0	931.0	924.7	931.0	944.2	922.6
47.5°	798.9	789.9	778.3	795.2	803.6	789.9	807.8	805.7	815.2	837.8	835.7
50°	657.2	650.9	648.8	650.9	656.2	649.8	662.5	663.0	669.3	700.4	702.5
52.5°	520.3	518.7	511.3	518.2	518.2	508.2	520.8	515.0	521.3	542.4	556.1
55°	407.1	405.5	400.7	407.1	400.2	396.5	400.2	394.4	389.7	406.0	420.2
57.5°	317.0	311.8	306.0	308.6	308.1	300.2	304.4	297.5	293.8	299.6	312.3
60°	225.9	224.3	219.1	221.7	223.8	218.0	222.2	219.1	212.7	217.5	218.0
62.5°	150.1	151.1	148.0	148.5	146.9	145.9	148.5	150.1	148.5	146.4	146.9
65°	95.3	94.8	94.3	94.8	95.8	93.7	95.3	96.4	94.8	94.8	94.3
67.5°	63.2	61.6	60.0	61.1	62.1	60.6	62.1	61.6	62.1	61.6	60.0
70°	42.7	42.1	41.6	42.1	42.1	41.1	42.1	41.6	42.1	41.6	40.0
72.5°	31.1	31.1	30.5	31.1	31.1	30.0	30.5	29.5	30.0	29.5	28.4
75°	23.2	23.2	22.6	23.2	22.6	22.1	22.6	22.1	21.1	21.1	20.0
77.5°	16.9	16.9	16.9	16.9	16.9	16.3	16.3	15.8	15.3	14.7	14.7
80°	12.6	12.1	12.1	12.1	12.1	11.6	12.1	11.6	11.1	10.5	10.0
82.5°	9.0	9.5	9.0	9.0	9.0	8.4	9.0	8.4	8.4	7.9	6.8
85°	6.8	6.8	6.8	6.8	6.8	6.3	6.3	6.3	5.8	5.8	5.3
87.5°	3.7	3.7	3.7	4.2	3.7	3.7	3.7	3.2	3.2	2.6	2.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3
2.5°	1939.5	1942.1	1936.3	1945.3	1980.0	1952.1	1963.7	1967.4	1993.7	1998.5	1995.3
5°	1865.8	1877.4	1884.7	1904.7	1943.2	1923.2	1943.7	1956.9	1990.6	2001.6	2004.3
7.5°	1807.8	1832.1	1850.0	1882.6	1927.9	1912.6	1943.7	1965.3	2006.4	2020.6	2027.4
10°	1764.7	1801.5	1832.6	1877.4	1928.4	1918.4	1959.0	1989.5	2035.3	2052.2	2060.6
12.5°	1732.0	1776.8	1818.4	1875.2	1930.5	1925.8	1974.8	2009.5	2058.0	2074.8	2084.8
15°	1696.2	1747.8	1796.3	1860.0	1919.5	1918.4	1971.1	2007.9	2057.4	2071.7	2081.1
17.5°	1653.5	1708.8	1762.0	1831.0	1890.0	1891.0	1944.2	1980.6	2029.0	2040.6	2046.9
20°	1610.4	1665.1	1718.3	1789.4	1847.3	1848.9	1901.0	1934.8	1981.1	1990.6	1992.2
22.5°	1564.5	1615.6	1668.8	1739.4	1795.2	1796.3	1847.9	1879.5	1919.0	1923.7	1927.9
25°	1512.4	1562.4	1612.5	1682.5	1735.7	1738.9	1785.7	1813.6	1850.0	1853.7	1855.2
27.5°	1458.2	1499.2	1547.2	1607.2	1660.9	1658.8	1703.0	1734.6	1767.3	1765.2	1764.7
30°	1403.4	1437.6	1467.1	1525.1	1564.5	1566.1	1607.7	1623.0	1657.2	1653.0	1652.5
32.5°	1365.0	1373.9	1381.8	1411.3	1448.7	1435.5	1464.0	1482.9	1506.6	1505.0	1505.6
35°	1294.4	1278.1	1254.4	1258.6	1281.2	1260.7	1276.0	1275.4	1299.7	1293.9	1300.7
37.5°	1173.8	1127.5	1074.8	1044.8	1049.0	1023.2	1017.9	1030.6	1039.0	1022.7	1028.5
40°	1045.3	976.9	894.7	826.2	822.6	790.4	784.6	772.0	788.3	774.6	778.9
42.5°	950.5	859.9	752.0	668.8	650.9	624.0	608.2	606.1	610.9	601.4	598.8
45°	877.9	781.5	657.7	562.4	542.4	513.4	497.6	491.8	492.4	489.2	486.6
47.5°	792.5	695.6	570.3	472.9	450.2	422.9	407.1	403.4	405.5	401.3	398.1
50°	674.6	587.7	473.4	384.4	364.4	344.4	331.8	328.1	327.5	324.4	322.3
52.5°	547.7	475.5	376.5	302.3	284.4	264.9	255.9	251.2	251.7	248.6	245.4
55°	423.9	379.2	291.7	228.5	212.2	197.0	188.5	182.7	181.2	178.0	176.4
57.5°	315.4	285.4	218.5	164.8	155.3	140.6	132.2	125.3	124.3	122.7	122.2
60°	221.2	199.6	153.8	117.4	106.4	97.4	89.0	82.2	79.0	78.5	76.9
62.5°	143.2	130.1	101.1	78.5	70.0	63.7	55.3	50.6	48.4	46.3	46.9
65°	89.0	79.0	63.2	50.6	45.8	41.1	34.8	30.5	28.4	26.3	26.9
67.5°	55.3	49.5	40.0	32.6	29.5	25.8	21.1	17.9	16.3	14.7	13.7
70°	37.4	32.1	27.4	23.2	21.1	18.4	15.3	12.6	11.6	10.5	9.5
72.5°	26.3	23.7	20.0	17.4	15.8	13.7	11.6	10.0	9.0	7.9	6.8
75°	19.0	16.9	14.7	12.6	11.6	10.5	9.0	7.9	6.8	5.8	4.7
77.5°	13.7	12.1	10.5	9.5	9.0	7.4	6.3	5.8	5.3	4.2	3.2
80°	9.5	8.4	6.8	6.3	6.3	5.3	4.7	4.2	3.7	2.6	2.1
82.5°	6.3	5.8	5.3	4.7	4.2	3.7	3.7	2.6	2.1	1.6	1.1
85°	4.7	4.2	3.7	3.2	3.2	2.6	2.1	1.6	1.6	1.1	0.5
87.5°	2.6	2.6	2.1	1.6	1.6	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3
2.5°	2022.2	2023.7	2032.7	2025.9	2043.2	2055.9	2049.6	2063.8	2059.0	2058.0	2074.3
5°	2035.9	2039.5	2051.7	2045.3	2064.3	2078.0	2071.7	2087.5	2082.7	2081.7	2098.5
7.5°	2062.2	2065.9	2076.4	2071.1	2091.2	2103.3	2095.4	2112.7	2106.4	2105.9	2122.2
10°	2095.4	2100.6	2109.6	2104.3	2122.7	2133.3	2125.4	2142.2	2136.4	2133.8	2151.7
12.5°	2120.1	2123.8	2132.8	2128.5	2146.4	2154.3	2147.5	2163.8	2156.5	2154.3	2170.1
15°	2114.3	2118.0	2125.4	2121.7	2138.5	2145.9	2137.0	2154.9	2147.5	2143.3	2157.5
17.5°	2077.5	2079.6	2084.8	2081.1	2099.1	2103.8	2093.8	2111.7	2104.8	2097.5	2111.2
20°	2023.2	2022.2	2025.3	2023.7	2038.5	2041.1	2034.8	2048.0	2040.1	2035.9	2043.8
22.5°	1955.8	1954.8	1956.9	1952.7	1967.4	1969.0	1959.5	1975.3	1967.4	1959.5	1972.7
25°	1881.0	1875.2	1874.2	1875.8	1885.8	1887.4	1877.4	1888.9	1878.9	1872.6	1885.2
27.5°	1788.9	1781.5	1779.9	1781.5	1791.5	1784.1	1775.7	1784.1	1774.1	1768.3	1776.2
30°	1675.1	1664.6	1659.9	1656.7	1667.2	1664.6	1645.1	1654.6	1638.8	1630.4	1636.2
32.5°	1521.9	1516.1	1503.5	1496.1	1506.1	1486.1	1474.0	1474.0	1467.7	1453.4	1456.6
35°	1309.1	1300.2	1288.6	1282.3	1283.9	1257.0	1237.0	1241.2	1220.1	1216.5	1218.0
37.5°	1040.0	1025.3	1021.1	1007.9	1011.1	987.4	960.0	960.5	949.5	937.9	934.2
40°	781.5	778.9	774.6	763.6	767.8	742.0	731.5	732.0	724.6	716.2	720.4
42.5°	604.0	595.6	593.0	589.3	590.3	586.1	572.4	574.0	567.7	565.6	563.5
45°	490.8	481.8	475.5	478.7	478.7	473.9	468.7	471.8	468.7	464.5	466.6
47.5°	404.4	396.0	392.8	392.3	396.0	392.8	387.6	388.6	388.1	386.5	385.5
50°	322.8	320.7	318.1	316.5	318.1	317.0	312.3	314.9	316.5	311.2	312.8
52.5°	245.9	245.9	245.4	241.7	244.9	241.7	241.2	242.2	240.7	238.6	238.0
55°	180.1	178.5	175.9	175.4	176.4	175.4	174.3	174.8	175.9	170.6	170.6
57.5°	123.2	122.2	120.6	120.6	122.7	120.1	118.5	120.6	118.5	116.4	116.4
60°	79.0	78.5	76.9	76.9	76.9	76.4	74.8	75.3	76.4	73.2	73.7
62.5°	47.4	45.8	45.3	44.8	45.3	44.8	44.8	44.2	43.7	43.7	42.1
65°	25.8	24.8	23.7	24.2	24.2	23.7	23.7	23.7	22.6	22.1	21.6
67.5°	13.2	12.1	12.1	11.6	11.6	11.6	11.6	11.1	11.1	11.1	10.5
70°	8.4	7.9	7.4	7.4	7.4	6.8	6.8	6.8	6.8	6.8	6.3
72.5°	5.8	5.3	4.7	4.7	4.7	4.2	4.2	4.2	4.2	3.7	3.7
75°	4.2	3.7	3.2	3.2	3.2	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.1
80°	1.6	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
82.5°	1.1	1.1	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: P244089

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3	2004.3
2.5°	2068.5	2064.3	2066.9	2086.4	2078.0	2075.4	2053.2	2072.7
5°	2093.3	2090.1	2090.1	2112.2	2102.2	2100.1	2078.5	2095.4
7.5°	2116.4	2113.3	2113.8	2136.4	2128.5	2125.4	2103.8	2120.6
10°	2146.4	2144.3	2144.9	2166.5	2158.0	2154.9	2132.8	2150.1
12.5°	2164.4	2161.2	2161.2	2184.4	2174.9	2170.1	2149.1	2165.9
15°	2150.7	2145.9	2145.9	2169.1	2158.6	2151.7	2133.3	2149.1
17.5°	2103.8	2099.1	2099.1	2119.1	2111.2	2101.2	2082.2	2096.9
20°	2038.5	2032.7	2031.1	2054.3	2043.2	2034.3	2017.4	2031.6
22.5°	1964.8	1962.1	1957.4	1980.6	1970.6	1961.1	1943.2	1954.2
25°	1876.3	1872.1	1867.3	1890.0	1880.0	1870.5	1856.3	1865.2
27.5°	1766.2	1766.8	1764.1	1782.0	1772.0	1766.8	1749.4	1764.1
30°	1633.0	1627.2	1625.1	1646.2	1636.7	1629.8	1608.3	1622.5
32.5°	1459.2	1450.8	1439.7	1463.4	1447.1	1441.3	1422.9	1443.4
35°	1206.5	1203.8	1193.8	1213.8	1204.9	1194.3	1182.8	1200.1
37.5°	932.6	934.7	933.7	938.9	933.7	926.8	914.2	907.9
40°	712.0	706.7	702.5	712.0	700.9	700.9	693.5	701.4
42.5°	558.2	556.1	561.4	563.5	557.1	556.1	555.0	554.5
45°	460.8	460.8	461.8	463.9	461.8	460.8	457.6	455.5
47.5°	379.7	381.8	379.7	386.5	382.8	381.8	375.5	378.1
50°	307.5	304.9	307.5	309.6	310.2	307.0	303.9	305.4
52.5°	238.6	234.3	233.3	236.4	234.3	234.3	232.2	231.7
55°	168.0	169.6	166.9	169.6	168.5	166.9	165.4	167.5
57.5°	113.7	114.3	113.2	114.8	112.2	112.7	112.2	111.6
60°	73.7	71.6	71.6	73.2	70.6	70.6	70.0	70.0
62.5°	42.1	41.6	41.6	41.1	40.5	40.5	40.5	39.5
65°	21.6	21.1	20.5	20.5	20.5	20.5	20.0	20.0
67.5°	10.5	10.0	10.0	10.5	10.0	10.0	10.0	10.0
70°	6.3	6.3	5.8	6.3	5.8	5.8	5.8	5.8
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)