

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: P244095

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244095
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 EC8B30830 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3145.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

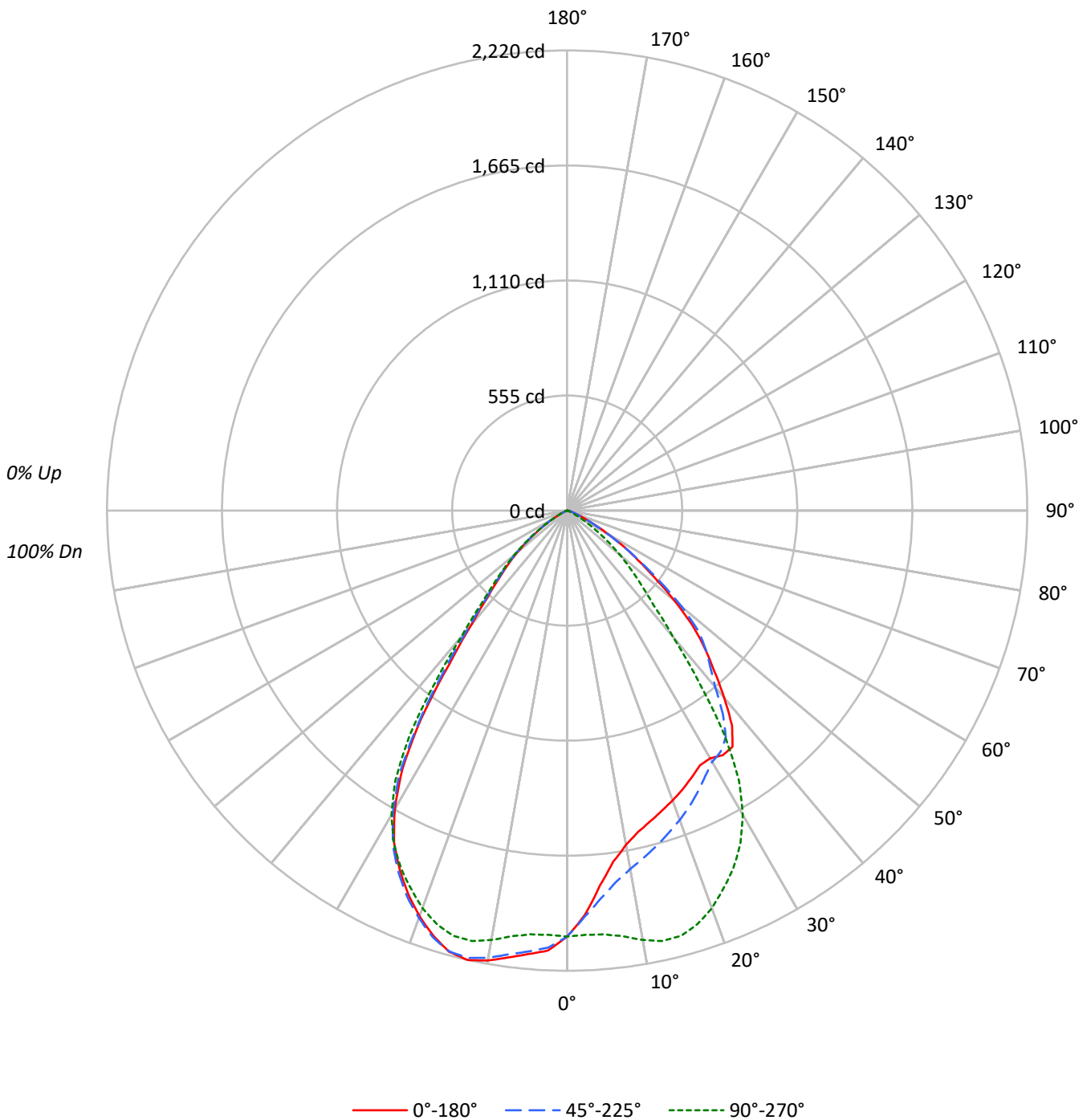
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63356	63356	63356
5°	56213	63515	66489
10°	51248	65871	69015
15°	49530	67797	70329
20°	48823	66960	68341
25°	48341	64653	65057
30°	49130	60336	59221
35°	52367	49927	46314
40°	47459	31966	28943
45°	40962	21870	20361
50°	32319	15951	15020
55°	22435	9811	9231
60°	14283	4958	4428
65°	7129	1970	1496
70°	3940	974	532
75°	2836	703	262
80°	2309	479	89
85°	2477	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	6.1
10°-20°	553.1	17.6
20°-30°	802.8	25.5
30°-40°	790.6	25.1
40°-50°	495.6	15.8
50°-60°	239.2	7.6
60°-70°	57.9	1.8
70°-80°	11.7	0.4
80°-90°	2.7	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°	1547.3	49.2
0°-40°	2338.0	74.3
0°-60°	3072.7	97.7
0°-90°	3145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2055	2055	2055	2055	2055	
5°	1816	1878	2052	2135	2148	168
15°	1552	1673	2124	2201	2203	439
25°	1421	1495	1900	1926	1912	658
35°	1391	1334	1326	1251	1230	842
45°	939	946	502	480	467	718
55°	417	431	182	180	172	384
65°	98	97	27	23	20	111
75°	24	20	6	3	2	27
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°	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6
2.5°	1953.1	1940.7	1917.4	1945.5	1945.5	1929.9	1961.2	1942.3	1957.4	1981.1	1960.1
5°	1816.0	1805.7	1786.3	1816.0	1819.7	1805.2	1843.0	1828.9	1851.1	1880.2	1877.5
7.5°	1707.5	1694.5	1676.7	1707.5	1713.4	1703.7	1739.8	1733.4	1762.5	1800.3	1806.8
10°	1636.7	1623.2	1607.6	1635.7	1640.0	1633.5	1670.2	1666.4	1695.0	1738.8	1756.0
12.5°	1586.5	1575.2	1557.9	1587.6	1592.5	1583.3	1617.8	1616.2	1645.9	1691.8	1713.4
15°	1551.5	1538.0	1522.3	1547.7	1554.1	1543.9	1576.8	1573.6	1603.8	1649.2	1673.4
17.5°	1518.5	1506.1	1489.9	1513.7	1520.1	1509.3	1541.7	1536.3	1562.2	1605.4	1630.3
20°	1487.8	1474.3	1459.7	1484.0	1487.8	1475.3	1507.7	1500.7	1523.9	1563.9	1588.2
22.5°	1455.9	1441.9	1426.8	1450.5	1454.3	1441.9	1471.6	1463.5	1485.1	1521.2	1543.4
25°	1420.8	1407.9	1392.7	1414.9	1418.1	1404.6	1435.9	1425.7	1444.6	1476.4	1494.8
27.5°	1385.7	1373.3	1356.6	1379.2	1380.9	1367.9	1396.5	1382.5	1398.1	1427.3	1442.9
30°	1379.8	1365.8	1348.5	1366.8	1367.4	1350.6	1377.6	1360.9	1369.5	1391.1	1400.3
32.5°	1398.7	1384.6	1366.8	1381.9	1380.3	1362.0	1387.9	1367.4	1370.1	1381.4	1379.2
35°	1391.1	1374.4	1353.3	1369.5	1369.5	1347.4	1373.3	1349.0	1346.3	1347.9	1334.4
37.5°	1305.3	1292.3	1272.4	1288.0	1286.4	1269.7	1289.6	1269.7	1260.5	1256.7	1232.4
40°	1179.0	1163.3	1148.2	1164.9	1166.6	1148.7	1174.7	1152.0	1149.3	1138.5	1109.9
42.5°	1051.0	1045.6	1031.1	1045.1	1052.7	1037.5	1059.1	1048.3	1050.0	1047.3	1020.3
45°	939.3	930.1	919.3	935.5	940.4	932.8	954.4	947.9	954.4	967.9	945.8
47.5°	818.9	809.7	797.9	815.1	823.8	809.7	828.1	825.9	835.6	858.9	856.7
50°	673.7	667.2	665.1	667.2	672.6	666.1	679.1	679.6	686.1	718.0	720.1
52.5°	533.3	531.7	524.2	531.2	531.2	520.9	533.9	527.9	534.4	556.0	570.1
55°	417.3	415.7	410.8	417.3	410.3	406.5	410.3	404.3	399.5	416.2	430.8
57.5°	325.0	319.6	313.6	316.3	315.8	307.7	312.0	305.0	301.2	307.2	320.1
60°	231.6	230.0	224.6	227.3	229.4	223.5	227.8	224.6	218.1	222.9	223.5
62.5°	153.8	154.9	151.7	152.2	150.6	149.5	152.2	153.8	152.2	150.1	150.6
65°	97.7	97.2	96.6	97.2	98.2	96.1	97.7	98.8	97.2	97.2	96.6
67.5°	64.8	63.2	61.5	62.6	63.7	62.1	63.7	63.2	63.7	63.2	61.5
70°	43.7	43.2	42.6	43.2	43.2	42.1	43.2	42.6	43.2	42.6	41.0
72.5°	31.8	31.8	31.3	31.8	31.8	30.8	31.3	30.2	30.8	30.2	29.2
75°	23.8	23.8	23.2	23.8	23.2	22.7	23.2	22.7	21.6	21.6	20.5
77.5°	17.3	17.3	17.3	17.3	17.3	16.7	16.7	16.2	15.7	15.1	15.1
80°	13.0	12.4	12.4	12.4	12.4	11.9	12.4	11.9	11.3	10.8	10.3
82.5°	9.2	9.7	9.2	9.2	9.2	8.6	9.2	8.6	8.6	8.1	7.0
85°	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	5.9	5.9	5.4
87.5°	3.8	3.8	3.8	4.3	3.8	3.8	3.8	3.2	3.2	2.7	2.7
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°	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6
2.5°	1988.2	1990.9	1984.9	1994.1	2029.7	2001.1	2013.0	2016.8	2043.8	2048.6	2045.4
5°	1912.6	1924.5	1932.0	1952.5	1991.9	1971.4	1992.5	2006.0	2040.5	2051.9	2054.6
7.5°	1853.2	1878.0	1896.4	1929.9	1976.3	1960.6	1992.5	2014.6	2056.7	2071.3	2078.3
10°	1808.9	1846.7	1878.6	1924.5	1976.8	1966.6	2008.1	2039.4	2086.4	2103.7	2112.3
12.5°	1775.5	1821.4	1864.0	1922.3	1979.0	1974.1	2024.3	2060.0	2109.6	2126.9	2137.2
15°	1738.8	1791.7	1841.3	1906.7	1967.7	1966.6	2020.6	2058.3	2109.1	2123.7	2133.4
17.5°	1695.0	1751.7	1806.2	1877.0	1937.4	1938.5	1993.0	2030.3	2079.9	2091.8	2098.3
20°	1650.8	1706.9	1761.4	1834.3	1893.7	1895.3	1948.8	1983.3	2030.8	2040.5	2042.1
22.5°	1603.8	1656.2	1710.7	1783.0	1840.3	1841.3	1894.2	1926.6	1967.1	1972.0	1976.3
25°	1550.4	1601.7	1652.9	1724.7	1779.3	1782.5	1830.5	1859.1	1896.4	1900.2	1901.8
27.5°	1494.8	1536.9	1586.0	1647.5	1702.6	1700.4	1745.8	1778.2	1811.6	1809.5	1808.9
30°	1438.6	1473.7	1503.9	1563.3	1603.8	1605.4	1648.1	1663.7	1698.8	1694.5	1694.0
32.5°	1399.2	1408.4	1416.5	1446.7	1485.1	1471.6	1500.7	1520.1	1544.4	1542.8	1543.4
35°	1326.9	1310.1	1285.9	1290.2	1313.4	1292.3	1308.0	1307.5	1332.3	1326.3	1333.4
37.5°	1203.3	1155.8	1101.8	1071.0	1075.3	1048.9	1043.5	1056.4	1065.1	1048.3	1054.3
40°	1071.5	1001.4	917.2	847.0	843.2	810.3	804.3	791.4	808.1	794.1	798.4
42.5°	974.4	881.5	770.9	685.6	667.2	639.7	623.5	621.3	626.2	616.5	613.8
45°	899.9	801.1	674.2	576.5	556.0	526.3	510.1	504.2	504.7	501.5	498.8
47.5°	812.4	713.1	584.6	484.8	461.5	433.5	417.3	413.5	415.7	411.3	408.1
50°	691.5	602.4	485.3	394.1	373.6	353.0	340.1	336.3	335.8	332.5	330.4
52.5°	561.4	487.5	386.0	309.9	291.5	271.5	262.4	257.5	258.0	254.8	251.6
55°	434.6	388.7	299.1	234.3	217.5	201.9	193.3	187.3	185.7	182.5	180.8
57.5°	323.4	292.6	224.0	169.0	159.2	144.1	135.5	128.5	127.4	125.8	125.2
60°	226.7	204.6	157.6	120.4	109.0	99.9	91.2	84.2	81.0	80.4	78.8
62.5°	146.8	133.3	103.6	80.4	71.8	65.3	56.7	51.8	49.7	47.5	48.0
65°	91.2	81.0	64.8	51.8	47.0	42.1	35.6	31.3	29.2	27.0	27.5
67.5°	56.7	50.7	41.0	33.5	30.2	26.5	21.6	18.4	16.7	15.1	14.0
70°	38.3	32.9	28.1	23.8	21.6	18.9	15.7	13.0	11.9	10.8	9.7
72.5°	27.0	24.3	20.5	17.8	16.2	14.0	11.9	10.3	9.2	8.1	7.0
75°	19.4	17.3	15.1	13.0	11.9	10.8	9.2	8.1	7.0	5.9	4.9
77.5°	14.0	12.4	10.8	9.7	9.2	7.6	6.5	5.9	5.4	4.3	3.2
80°	9.7	8.6	7.0	6.5	6.5	5.4	4.9	4.3	3.8	2.7	2.2
82.5°	6.5	5.9	5.4	4.9	4.3	3.8	3.8	2.7	2.2	1.6	1.1
85°	4.9	4.3	3.8	3.2	3.2	2.7	2.2	1.6	1.6	1.1	0.5
87.5°	2.7	2.7	2.2	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°	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6
2.5°	2072.9	2074.5	2083.7	2076.7	2094.5	2107.5	2101.0	2115.6	2110.7	2109.6	2126.4
5°	2087.0	2090.7	2103.1	2096.7	2116.1	2130.1	2123.7	2139.9	2135.0	2133.9	2151.2
7.5°	2113.9	2117.7	2128.5	2123.1	2143.6	2156.1	2148.0	2165.8	2159.3	2158.8	2175.5
10°	2148.0	2153.4	2162.5	2157.1	2176.0	2186.8	2178.7	2196.0	2190.1	2187.4	2205.7
12.5°	2173.3	2177.1	2186.3	2182.0	2200.3	2208.4	2201.4	2218.1	2210.6	2208.4	2224.6
15°	2167.4	2171.2	2178.7	2174.9	2192.2	2199.8	2190.6	2209.0	2201.4	2197.1	2211.7
17.5°	2129.6	2131.8	2137.2	2133.4	2151.7	2156.6	2146.3	2164.7	2157.7	2150.1	2164.1
20°	2074.0	2072.9	2076.2	2074.5	2089.7	2092.4	2085.9	2099.4	2091.3	2087.0	2095.1
22.5°	2004.9	2003.8	2006.0	2001.7	2016.8	2018.4	2008.7	2024.9	2016.8	2008.7	2022.2
25°	1928.2	1922.3	1921.2	1922.8	1933.1	1934.7	1924.5	1936.3	1926.1	1919.6	1932.6
27.5°	1833.8	1826.2	1824.6	1826.2	1836.5	1828.9	1820.3	1828.9	1818.7	1812.7	1820.8
30°	1717.2	1706.4	1701.5	1698.3	1709.1	1706.4	1686.4	1696.1	1679.9	1671.3	1677.2
32.5°	1560.1	1554.1	1541.2	1533.6	1543.9	1523.4	1511.0	1511.0	1504.5	1489.9	1493.1
35°	1342.0	1332.8	1320.9	1314.5	1316.1	1288.6	1268.0	1272.4	1250.8	1247.0	1248.6
37.5°	1066.1	1051.0	1046.7	1033.2	1036.5	1012.2	984.1	984.6	973.3	961.4	957.6
40°	801.1	798.4	794.1	782.7	787.1	760.6	749.8	750.4	742.8	734.2	738.5
42.5°	619.2	610.5	607.8	604.1	605.1	600.8	586.8	588.4	581.9	579.8	577.6
45°	503.1	493.9	487.5	490.7	490.7	485.8	480.4	483.7	480.4	476.1	478.3
47.5°	414.6	405.9	402.7	402.2	405.9	402.7	397.3	398.4	397.8	396.2	395.2
50°	330.9	328.8	326.1	324.4	326.1	325.0	320.1	322.8	324.4	319.0	320.7
52.5°	252.1	252.1	251.6	247.8	251.0	247.8	247.2	248.3	246.7	244.5	244.0
55°	184.6	183.0	180.3	179.8	180.8	179.8	178.7	179.2	180.3	174.9	174.9
57.5°	126.3	125.2	123.6	123.6	125.8	123.1	121.5	123.6	121.5	119.3	119.3
60°	81.0	80.4	78.8	78.8	78.8	78.3	76.7	77.2	78.3	75.0	75.6
62.5°	48.6	47.0	46.4	45.9	46.4	45.9	45.9	45.3	44.8	44.8	43.2
65°	26.5	25.4	24.3	24.8	24.8	24.3	24.3	24.3	23.2	22.7	22.1
67.5°	13.5	12.4	12.4	11.9	11.9	11.9	11.9	11.3	11.3	11.3	10.8
70°	8.6	8.1	7.6	7.6	7.6	7.0	7.0	7.0	7.0	7.0	6.5
72.5°	5.9	5.4	4.9	4.9	4.9	4.3	4.3	4.3	4.3	3.8	3.8
75°	4.3	3.8	3.2	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.2	2.2	2.2	2.2	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: P244095

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6	2054.6
2.5°	2120.4	2116.1	2118.8	2138.8	2130.1	2127.4	2104.8	2124.7
5°	2145.8	2142.6	2142.6	2165.2	2155.0	2152.8	2130.7	2148.0
7.5°	2169.5	2166.3	2166.8	2190.1	2182.0	2178.7	2156.6	2173.9
10°	2200.3	2198.2	2198.7	2220.8	2212.2	2209.0	2186.3	2204.1
12.5°	2218.7	2215.4	2215.4	2239.2	2229.5	2224.6	2203.0	2220.3
15°	2204.6	2199.8	2199.8	2223.5	2212.7	2205.7	2186.8	2203.0
17.5°	2156.6	2151.7	2151.7	2172.2	2164.1	2153.9	2134.5	2149.6
20°	2089.7	2083.7	2082.1	2105.8	2094.5	2085.3	2068.1	2082.6
22.5°	2014.1	2011.4	2006.5	2030.3	2020.0	2010.3	1991.9	2003.3
25°	1923.4	1919.1	1914.2	1937.4	1927.2	1917.4	1902.9	1912.1
27.5°	1810.6	1811.1	1808.4	1826.8	1816.5	1811.1	1793.3	1808.4
30°	1674.0	1668.1	1665.9	1687.5	1677.8	1670.8	1648.6	1663.2
32.5°	1495.8	1487.2	1475.9	1500.2	1483.4	1477.5	1458.6	1479.7
35°	1236.7	1234.0	1223.8	1244.3	1235.1	1224.3	1212.4	1230.3
37.5°	956.0	958.2	957.1	962.5	957.1	950.1	937.1	930.7
40°	729.8	724.4	720.1	729.8	718.5	718.5	710.9	719.0
42.5°	572.2	570.1	575.5	577.6	571.1	570.1	569.0	568.4
45°	472.3	472.3	473.4	475.6	473.4	472.3	469.1	466.9
47.5°	389.2	391.4	389.2	396.2	392.5	391.4	384.9	387.6
50°	315.3	312.6	315.3	317.4	318.0	314.7	311.5	313.1
52.5°	244.5	240.2	239.1	242.4	240.2	240.2	238.1	237.5
55°	172.2	173.8	171.1	173.8	172.7	171.1	169.5	171.7
57.5°	116.6	117.1	116.1	117.7	115.0	115.5	115.0	114.4
60°	75.6	73.4	73.4	75.0	72.3	72.3	71.8	71.8
62.5°	43.2	42.6	42.6	42.1	41.6	41.6	41.6	40.5
65°	22.1	21.6	21.1	21.1	21.1	21.1	20.5	20.5
67.5°	10.8	10.3	10.3	10.8	10.3	10.3	10.3	10.3
70°	6.5	6.5	5.9	6.5	5.9	5.9	5.9	5.9
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)