

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: P244149

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244149
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 EC8B30927 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

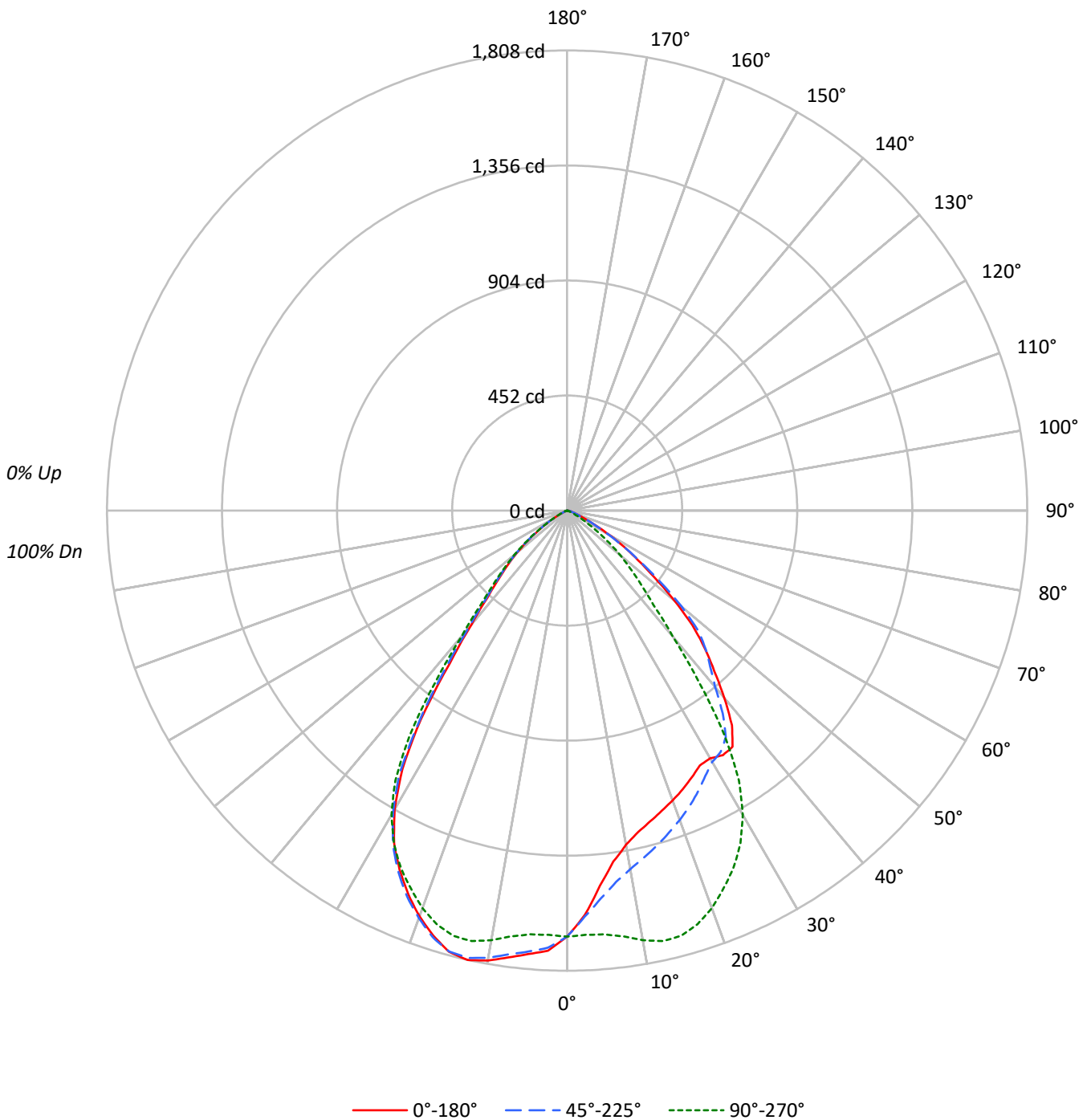
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	6.1
10°-20°	450.5	17.6
20°-30°	653.9	25.5
30°-40°	644.0	25.1
40°-50°	403.7	15.8
50°-60°	194.8	7.6
60°-70°	47.1	1.8
70°-80°	9.5	0.4
80°-90°	2.2	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°	1260.3	49.2
0°-40°	1904.3	74.3
0°-60°	2502.8	97.7
0°-90°	2561.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1673	1673	1673	1673	1673	
5°	1479	1529	1671	1739	1750	137
15°	1264	1363	1730	1793	1794	357
25°	1157	1218	1548	1569	1557	536
35°	1133	1087	1080	1019	1002	686
45°	765	770	408	391	380	585
55°	340	351	149	147	140	313
65°	80	79	22	19	17	91
75°	19	17	5	2	2	22
85°	6	4	1	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P244149

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1590.8	1580.7	1561.7	1584.7	1584.7	1571.9	1597.4	1582.0	1594.4	1613.7	1596.5
5°	1479.1	1470.7	1455.0	1479.1	1482.2	1470.4	1501.1	1489.6	1507.7	1531.5	1529.2
7.5°	1390.7	1380.1	1365.6	1390.7	1395.6	1387.7	1417.2	1411.9	1435.6	1466.3	1471.6
10°	1333.1	1322.1	1309.4	1332.2	1335.8	1330.5	1360.4	1357.3	1380.6	1416.3	1430.3
12.5°	1292.3	1283.1	1268.9	1293.1	1297.1	1289.6	1317.7	1316.5	1340.7	1378.0	1395.6
15°	1263.7	1252.7	1240.0	1260.6	1265.9	1257.5	1284.3	1281.7	1306.4	1343.2	1363.0
17.5°	1236.8	1226.7	1213.5	1232.9	1238.2	1229.4	1255.7	1251.3	1272.5	1307.6	1327.8
20°	1211.7	1200.8	1188.9	1208.7	1211.7	1201.7	1228.0	1222.3	1241.2	1273.7	1293.5
22.5°	1185.9	1174.4	1162.1	1181.5	1184.5	1174.4	1198.6	1192.0	1209.6	1239.1	1257.1
25°	1157.3	1146.7	1134.4	1152.4	1155.0	1144.1	1169.6	1161.2	1176.6	1202.5	1217.5
27.5°	1128.7	1118.6	1105.0	1123.4	1124.8	1114.2	1137.5	1126.0	1138.8	1162.6	1175.3
30°	1123.9	1112.4	1098.3	1113.3	1113.8	1100.1	1122.1	1108.5	1115.4	1133.1	1140.5
32.5°	1139.3	1127.8	1113.3	1125.6	1124.3	1109.4	1130.4	1113.8	1115.9	1125.1	1123.4
35°	1133.1	1119.5	1102.3	1115.4	1115.4	1097.4	1118.6	1098.8	1096.5	1097.9	1086.9
37.5°	1063.1	1052.7	1036.4	1049.1	1047.8	1034.1	1050.4	1034.1	1026.7	1023.6	1003.8
40°	960.3	947.5	935.2	948.8	950.2	935.7	956.8	938.2	936.1	927.3	904.0
42.5°	856.1	851.6	839.8	851.3	857.4	845.1	862.6	853.9	855.2	853.0	831.0
45°	765.1	757.6	748.8	762.0	765.9	759.8	777.4	772.1	777.4	788.4	770.3
47.5°	667.0	659.6	649.9	664.0	670.9	659.6	674.4	672.8	680.6	699.5	697.8
50°	548.8	543.5	541.7	543.5	547.9	542.6	553.2	553.6	558.9	584.8	586.6
52.5°	434.4	433.1	426.9	432.7	432.7	424.4	434.8	430.0	435.3	452.9	464.3
55°	339.9	338.5	334.6	339.9	334.1	331.1	334.1	329.3	325.3	339.0	350.9
57.5°	264.7	260.3	255.5	257.6	257.2	250.6	254.1	248.4	245.4	250.2	260.8
60°	188.7	187.3	182.9	185.1	186.9	182.0	185.5	182.9	177.6	181.6	182.0
62.5°	125.3	126.2	123.5	124.0	122.6	121.8	124.0	125.3	124.0	122.3	122.6
65°	79.5	79.2	78.8	79.2	80.0	78.3	79.5	80.4	79.2	79.2	78.8
67.5°	52.8	51.4	50.2	51.0	51.9	50.5	51.9	51.4	51.9	51.4	50.2
70°	35.7	35.2	34.8	35.2	35.2	34.3	35.2	34.8	35.2	34.8	33.4
72.5°	26.0	26.0	25.5	26.0	26.0	25.1	25.5	24.6	25.1	24.6	23.7
75°	19.3	19.3	18.9	19.3	18.9	18.4	18.9	18.4	17.6	17.6	16.8
77.5°	14.1	14.1	14.1	14.1	14.1	13.6	13.6	13.2	12.7	12.3	12.3
80°	10.6	10.1	10.1	10.1	10.1	9.7	10.1	9.7	9.2	8.8	8.3
82.5°	7.4	7.9	7.4	7.4	7.4	7.1	7.4	7.1	7.1	6.6	5.7
85°	5.7	5.7	5.7	5.7	5.7	5.3	5.3	5.3	4.8	4.8	4.4
87.5°	3.0	3.0	3.0	3.5	3.0	3.0	3.0	2.6	2.6	2.2	2.2
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°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1619.3	1621.6	1616.7	1624.2	1653.2	1629.9	1639.6	1642.7	1664.7	1668.6	1666.0
5°	1557.8	1567.5	1573.6	1590.4	1622.5	1605.7	1622.9	1633.8	1662.1	1671.3	1673.4
7.5°	1509.4	1529.7	1544.6	1571.9	1609.6	1596.9	1622.9	1640.9	1675.2	1687.0	1692.8
10°	1473.4	1504.1	1530.1	1567.5	1610.1	1601.8	1635.6	1661.2	1699.4	1713.5	1720.5
12.5°	1446.2	1483.5	1518.3	1565.8	1611.9	1608.0	1648.8	1677.8	1718.3	1732.4	1740.7
15°	1416.3	1459.4	1499.7	1553.0	1602.7	1601.8	1645.8	1676.6	1717.9	1729.7	1737.7
17.5°	1380.6	1426.8	1471.2	1528.8	1578.0	1578.9	1623.4	1653.6	1694.1	1703.8	1709.1
20°	1344.6	1390.3	1434.7	1494.1	1542.4	1543.7	1587.3	1615.4	1654.1	1662.1	1663.3
22.5°	1306.4	1349.0	1393.4	1452.3	1499.0	1499.7	1542.8	1569.3	1602.2	1606.2	1609.6
25°	1262.8	1304.6	1346.3	1404.8	1449.2	1451.8	1491.0	1514.2	1544.6	1547.7	1549.0
27.5°	1217.5	1251.8	1291.8	1341.9	1386.8	1385.0	1422.0	1448.3	1475.6	1473.9	1473.4
30°	1171.8	1200.4	1225.0	1273.4	1306.4	1307.6	1342.4	1355.2	1383.8	1380.1	1379.7
32.5°	1139.6	1147.2	1153.8	1178.3	1209.6	1198.6	1222.3	1238.2	1258.0	1256.6	1257.1
35°	1080.8	1067.2	1047.4	1050.9	1069.8	1052.7	1065.4	1064.9	1085.2	1080.3	1086.1
37.5°	980.1	941.4	897.4	872.3	875.8	854.3	849.9	860.5	867.5	853.9	858.7
40°	872.8	815.6	747.0	689.8	686.8	659.9	655.1	644.6	658.2	646.8	650.2
42.5°	793.7	718.0	627.9	558.4	543.5	521.0	507.8	506.1	510.1	502.1	500.0
45°	732.9	652.5	549.2	469.6	452.9	428.7	415.5	410.6	411.1	408.5	406.2
47.5°	661.7	580.8	476.2	394.9	376.0	353.0	339.9	336.8	338.5	335.0	332.4
50°	563.3	490.7	395.3	321.0	304.3	287.6	277.0	273.9	273.5	270.9	269.1
52.5°	457.3	397.0	314.3	252.3	237.5	221.2	213.6	209.7	210.2	207.6	204.9
55°	353.9	316.6	243.6	190.8	177.2	164.5	157.4	152.5	151.2	148.6	147.3
57.5°	263.4	238.3	182.5	137.6	129.7	117.4	110.4	104.6	103.7	102.5	102.0
60°	184.7	166.6	128.4	98.1	88.8	81.3	74.4	68.6	65.9	65.5	64.2
62.5°	119.6	108.6	84.4	65.5	58.5	53.2	46.1	42.2	40.5	38.7	39.2
65°	74.4	65.9	52.8	42.2	38.2	34.3	29.0	25.5	23.7	21.9	22.4
67.5°	46.1	41.3	33.4	27.2	24.6	21.6	17.6	15.0	13.6	12.3	11.5
70°	31.2	26.8	22.8	19.3	17.6	15.4	12.7	10.6	9.7	8.8	7.9
72.5°	21.9	19.8	16.8	14.5	13.2	11.5	9.7	8.3	7.4	6.6	5.7
75°	15.9	14.1	12.3	10.6	9.7	8.8	7.4	6.6	5.7	4.8	3.9
77.5°	11.5	10.1	8.8	7.9	7.4	6.2	5.3	4.8	4.4	3.5	2.6
80°	7.9	7.1	5.7	5.3	5.3	4.4	3.9	3.5	3.0	2.2	1.8
82.5°	5.3	4.8	4.4	3.9	3.5	3.0	3.0	2.2	1.8	1.3	0.9
85°	3.9	3.5	3.0	2.6	2.6	2.2	1.8	1.3	1.3	0.9	0.4
87.5°	2.2	2.2	1.8	1.3	1.3	0.9	0.9	0.4	0.4	0.4	0.4
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°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1688.4	1689.8	1697.2	1691.4	1706.0	1716.5	1711.2	1723.2	1719.2	1718.3	1731.9
5°	1699.9	1702.9	1713.0	1707.8	1723.6	1735.0	1729.7	1743.0	1739.0	1738.1	1752.2
7.5°	1721.8	1724.8	1733.7	1729.4	1746.0	1756.1	1749.5	1764.0	1758.7	1758.3	1772.0
10°	1749.5	1753.9	1761.4	1757.0	1772.4	1781.2	1774.6	1788.6	1783.8	1781.7	1796.6
12.5°	1770.2	1773.2	1780.8	1777.3	1792.1	1798.8	1793.0	1806.6	1800.6	1798.8	1811.9
15°	1765.4	1768.4	1774.6	1771.5	1785.6	1791.8	1784.2	1799.2	1793.0	1789.5	1801.5
17.5°	1734.5	1736.3	1740.7	1737.7	1752.6	1756.6	1748.2	1763.1	1757.5	1751.3	1762.8
20°	1689.3	1688.4	1691.1	1689.8	1702.0	1704.3	1699.0	1710.0	1703.4	1699.9	1706.4
22.5°	1633.0	1632.1	1633.8	1630.4	1642.7	1644.0	1636.1	1649.2	1642.7	1636.1	1647.1
25°	1570.6	1565.8	1564.9	1566.2	1574.6	1575.9	1567.5	1577.1	1568.8	1563.5	1574.1
27.5°	1493.7	1487.5	1486.1	1487.5	1495.8	1489.6	1482.6	1489.6	1481.3	1476.4	1483.1
30°	1398.6	1389.8	1385.9	1383.3	1392.1	1389.8	1373.6	1381.5	1368.3	1361.2	1366.1
32.5°	1270.7	1265.9	1255.3	1249.2	1257.5	1240.8	1230.6	1230.6	1225.5	1213.5	1216.1
35°	1093.0	1085.6	1076.0	1070.7	1072.0	1049.5	1032.9	1036.4	1018.8	1015.6	1017.0
37.5°	868.4	856.1	852.5	841.6	844.2	824.4	801.6	802.0	792.8	783.1	780.0
40°	652.5	650.2	646.8	637.5	641.0	619.5	610.8	611.2	605.0	597.9	601.5
42.5°	504.3	497.2	495.1	492.0	492.9	489.4	477.9	479.2	474.0	472.3	470.5
45°	409.8	402.3	397.0	399.7	399.7	395.8	391.3	394.0	391.3	387.8	389.6
47.5°	337.7	330.6	328.0	327.6	330.6	328.0	323.7	324.4	324.0	322.8	321.9
50°	269.6	267.8	265.6	264.3	265.6	264.7	260.8	262.9	264.3	259.9	261.2
52.5°	205.3	205.3	204.9	201.8	204.4	201.8	201.4	202.3	200.9	199.1	198.8
55°	150.4	149.1	146.8	146.4	147.3	146.4	145.6	146.0	146.8	142.4	142.4
57.5°	102.9	102.0	100.7	100.7	102.5	100.2	98.9	100.7	98.9	97.2	97.2
60°	65.9	65.5	64.2	64.2	64.2	63.8	62.4	62.9	63.8	61.1	61.5
62.5°	39.6	38.2	37.8	37.4	37.8	37.4	37.4	36.9	36.4	36.4	35.2
65°	21.6	20.7	19.8	20.2	20.2	19.8	19.8	19.8	18.9	18.4	18.0
67.5°	11.0	10.1	10.1	9.7	9.7	9.7	9.7	9.2	9.2	9.2	8.8
70°	7.1	6.6	6.2	6.2	6.2	5.7	5.7	5.7	5.7	5.7	5.3
72.5°	4.8	4.4	3.9	3.9	3.9	3.5	3.5	3.5	3.5	3.0	3.0
75°	3.5	3.0	2.6	2.6	2.6	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.8	1.8	1.8	1.8	1.3	1.3	1.3	1.3	1.3	0.9
80°	1.3	1.3	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
82.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	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: P244149

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1727.1	1723.6	1725.8	1742.1	1735.0	1732.8	1714.4	1730.6
5°	1747.8	1745.1	1745.1	1763.6	1755.2	1753.4	1735.4	1749.5
7.5°	1767.2	1764.4	1764.9	1783.8	1777.3	1774.6	1756.6	1770.6
10°	1792.1	1790.4	1790.9	1808.9	1801.8	1799.2	1780.8	1795.3
12.5°	1807.1	1804.5	1804.5	1823.8	1815.9	1811.9	1794.4	1808.4
15°	1795.7	1791.8	1791.8	1811.0	1802.2	1796.6	1781.2	1794.4
17.5°	1756.6	1752.6	1752.6	1769.3	1762.8	1754.3	1738.6	1750.8
20°	1702.0	1697.2	1695.9	1715.2	1706.0	1698.5	1684.5	1696.3
22.5°	1640.5	1638.3	1634.3	1653.6	1645.3	1637.4	1622.5	1631.7
25°	1566.6	1563.1	1559.1	1578.0	1569.7	1561.7	1549.9	1557.3
27.5°	1474.8	1475.2	1473.0	1487.9	1479.6	1475.2	1460.7	1473.0
30°	1363.5	1358.7	1356.9	1374.5	1366.5	1360.8	1342.8	1354.7
32.5°	1218.4	1211.4	1202.1	1221.9	1208.2	1203.4	1188.0	1205.2
35°	1007.3	1005.1	996.8	1013.5	1006.0	997.2	987.5	1002.0
37.5°	778.7	780.4	779.6	784.0	779.6	773.9	763.3	758.0
40°	594.4	590.1	586.6	594.4	585.2	585.2	579.0	585.7
42.5°	466.1	464.3	468.7	470.5	465.2	464.3	463.4	462.9
45°	384.8	384.8	385.7	387.3	385.7	384.8	382.0	380.4
47.5°	317.0	318.8	317.0	322.8	319.6	318.8	313.5	315.7
50°	256.7	254.6	256.7	258.5	259.0	256.4	253.7	255.0
52.5°	199.1	195.6	194.7	197.4	195.6	195.6	194.0	193.5
55°	140.3	141.5	139.4	141.5	140.7	139.4	138.0	139.8
57.5°	95.0	95.4	94.5	95.9	93.6	94.0	93.6	93.3
60°	61.5	59.8	59.8	61.1	59.0	59.0	58.5	58.5
62.5°	35.2	34.8	34.8	34.3	33.9	33.9	33.9	33.0
65°	18.0	17.6	17.1	17.1	17.1	17.1	16.8	16.8
67.5°	8.8	8.3	8.3	8.8	8.3	8.3	8.3	8.3
70°	5.3	5.3	4.8	5.3	4.8	4.8	4.8	4.8
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)