

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: P244155

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244155  
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 EC8B309730 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2409.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

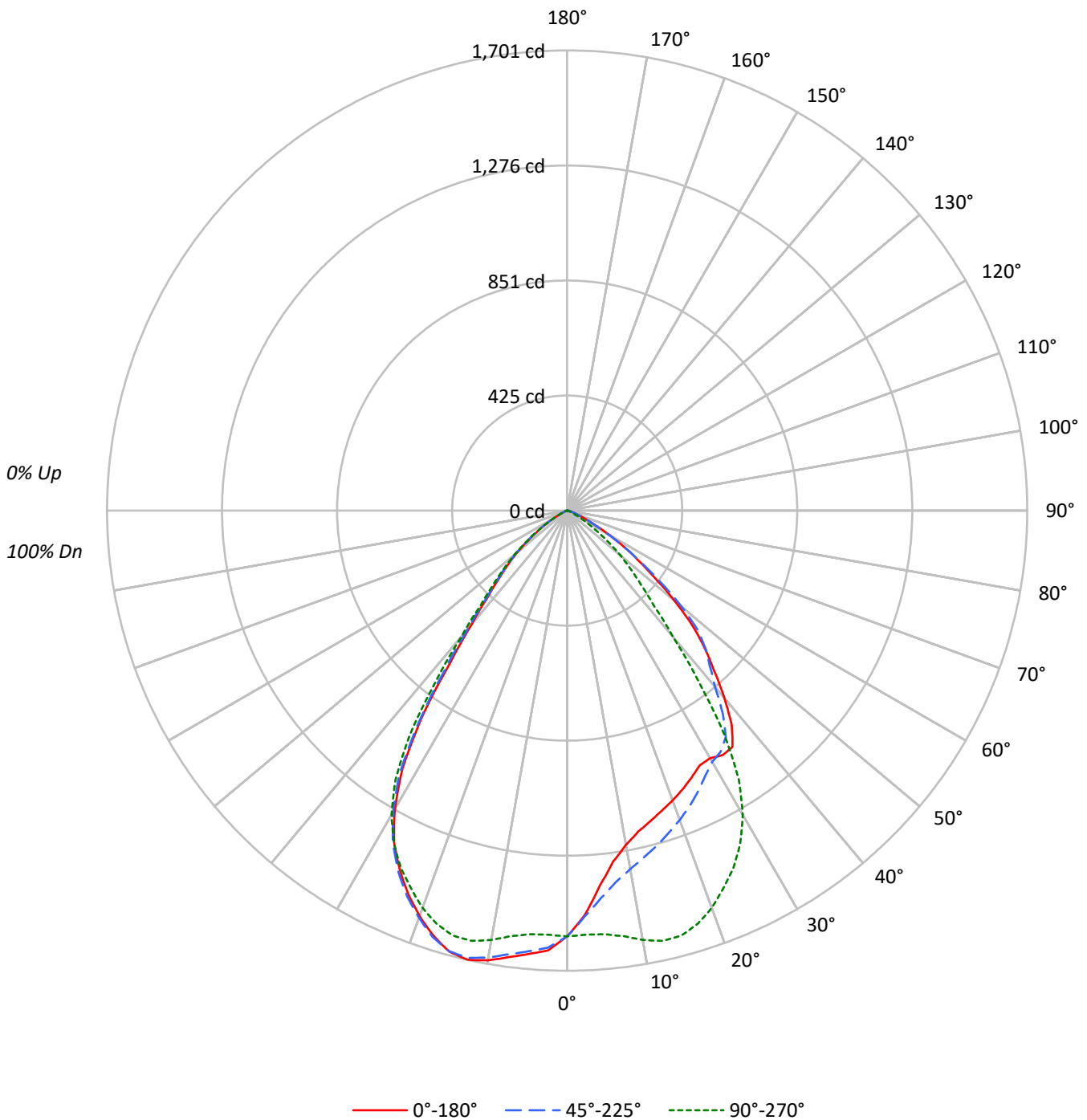
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	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°	146.7	6.1
10°-20°	423.7	17.6
20°-30°	614.9	25.5
30°-40°	605.6	25.1
40°-50°	379.6	15.8
50°-60°	183.2	7.6
60°-70°	44.3	1.8
70°-80°	9.0	0.4
80°-90°	2.1	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°	1185.2	49.2
0°-40°	1790.8	74.3
0°-60°	2353.7	97.7
0°-90°	2409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1574	1574	1574	1574	1574	
5°	1391	1438	1572	1635	1645	129
15°	1188	1282	1627	1686	1688	336
25°	1088	1145	1456	1475	1465	504
35°	1066	1022	1016	958	942	645
45°	720	724	384	368	358	550
55°	320	330	140	138	132	294
65°	75	74	21	18	16	85
75°	18	16	4	2	2	20
85°	5	4	1	0	0	6
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°	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1496.0	1486.5	1468.7	1490.2	1490.2	1478.2	1502.2	1487.7	1499.3	1517.5	1501.4
5°	1391.0	1383.1	1368.2	1391.0	1393.9	1382.7	1411.7	1400.9	1417.9	1440.2	1438.1
7.5°	1307.9	1298.0	1284.3	1307.9	1312.4	1305.0	1332.7	1327.7	1350.1	1379.0	1384.0
10°	1253.7	1243.4	1231.4	1252.9	1256.2	1251.2	1279.3	1276.5	1298.4	1331.9	1345.1
12.5°	1215.3	1206.6	1193.3	1216.1	1219.8	1212.8	1239.2	1238.0	1260.7	1295.9	1312.4
15°	1188.4	1178.0	1166.0	1185.5	1190.4	1182.6	1207.8	1205.3	1228.5	1263.2	1281.8
17.5°	1163.2	1153.6	1141.2	1159.4	1164.4	1156.1	1180.9	1176.8	1196.6	1229.7	1248.7
20°	1139.6	1129.2	1118.1	1136.7	1139.6	1130.1	1154.9	1149.5	1167.3	1197.9	1216.5
22.5°	1115.2	1104.4	1092.9	1111.1	1113.9	1104.4	1127.2	1121.0	1137.5	1165.2	1182.2
25°	1088.3	1078.4	1066.8	1083.8	1086.2	1075.9	1099.9	1092.0	1106.5	1130.9	1145.0
27.5°	1061.4	1051.9	1039.1	1056.5	1057.7	1047.8	1069.7	1059.0	1070.9	1093.3	1105.3
30°	1056.9	1046.1	1032.9	1047.0	1047.4	1034.6	1055.2	1042.4	1049.0	1065.6	1072.6
32.5°	1071.4	1060.6	1047.0	1058.5	1057.3	1043.2	1063.1	1047.4	1049.4	1058.1	1056.5
35°	1065.6	1052.8	1036.6	1049.0	1049.0	1032.1	1051.9	1033.3	1031.2	1032.5	1022.2
37.5°	999.8	989.9	974.6	986.6	985.4	972.5	987.8	972.5	965.5	962.6	944.0
40°	903.1	891.1	879.5	892.3	893.6	879.9	899.8	882.4	880.3	872.1	850.1
42.5°	805.1	800.9	789.8	800.5	806.3	794.7	811.3	803.0	804.2	802.2	781.5
45°	719.5	712.4	704.2	716.6	720.3	714.5	731.1	726.1	731.1	741.4	724.4
47.5°	627.3	620.2	611.1	624.4	631.0	620.2	634.3	632.6	640.1	657.9	656.2
50°	516.0	511.1	509.4	511.1	515.2	510.2	520.2	520.6	525.5	549.9	551.6
52.5°	408.5	407.3	401.5	406.9	406.9	399.0	408.9	404.4	409.4	425.9	436.6
55°	319.6	318.4	314.7	319.6	314.3	311.4	314.3	309.7	306.0	318.8	330.0
57.5°	248.9	244.8	240.2	242.3	241.9	235.7	239.0	233.6	230.7	235.3	245.2
60°	177.4	176.1	172.0	174.1	175.7	171.2	174.5	172.0	167.1	170.8	171.2
62.5°	117.8	118.7	116.2	116.6	115.4	114.5	116.6	117.8	116.6	115.0	115.4
65°	74.8	74.4	74.0	74.4	75.3	73.6	74.8	75.7	74.4	74.4	74.0
67.5°	49.6	48.4	47.1	48.0	48.8	47.6	48.8	48.4	48.8	48.4	47.1
70°	33.5	33.1	32.7	33.1	33.1	32.3	33.1	32.7	33.1	32.7	31.4
72.5°	24.4	24.4	24.0	24.4	24.4	23.6	24.0	23.2	23.6	23.2	22.3
75°	18.2	18.2	17.8	18.2	17.8	17.4	17.8	17.4	16.5	16.5	15.7
77.5°	13.2	13.2	13.2	13.2	13.2	12.8	12.8	12.4	12.0	11.6	11.6
80°	9.9	9.5	9.5	9.5	9.5	9.1	9.5	9.1	8.7	8.3	7.9
82.5°	7.0	7.4	7.0	7.0	7.0	6.6	7.0	6.6	6.6	6.2	5.4
85°	5.4	5.4	5.4	5.4	5.4	5.0	5.0	5.0	4.5	4.5	4.1
87.5°	2.9	2.9	2.9	3.3	2.9	2.9	2.9	2.5	2.5	2.1	2.1
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°	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1522.9	1525.0	1520.4	1527.4	1554.7	1532.8	1541.9	1544.8	1565.5	1569.2	1566.7
5°	1465.0	1474.1	1479.9	1495.6	1525.8	1510.1	1526.2	1536.5	1563.0	1571.7	1573.8
7.5°	1419.5	1438.5	1452.6	1478.2	1513.8	1501.8	1526.2	1543.2	1575.4	1586.6	1591.9
10°	1385.6	1414.6	1439.0	1474.1	1514.2	1506.4	1538.2	1562.2	1598.1	1611.4	1618.0
12.5°	1360.0	1395.1	1427.8	1472.4	1515.9	1512.1	1550.6	1577.9	1615.9	1629.2	1637.0
15°	1331.9	1372.4	1410.4	1460.5	1507.2	1506.4	1547.7	1576.6	1615.5	1626.7	1634.1
17.5°	1298.4	1341.8	1383.5	1437.7	1484.0	1484.9	1526.6	1555.1	1593.2	1602.3	1607.2
20°	1264.5	1307.5	1349.2	1405.0	1450.5	1451.8	1492.7	1519.2	1555.6	1563.0	1564.2
22.5°	1228.5	1268.6	1310.4	1365.8	1409.6	1410.4	1450.9	1475.8	1506.8	1510.5	1513.8
25°	1187.5	1226.8	1266.1	1321.1	1362.9	1365.4	1402.2	1424.1	1452.6	1455.5	1456.7
27.5°	1145.0	1177.2	1214.8	1262.0	1304.2	1302.5	1337.2	1362.0	1387.7	1386.0	1385.6
30°	1102.0	1128.8	1152.0	1197.5	1228.5	1229.7	1262.4	1274.4	1301.3	1298.0	1297.5
32.5°	1071.8	1078.8	1085.0	1108.2	1137.5	1127.2	1149.5	1164.4	1183.0	1181.8	1182.2
35°	1016.4	1003.5	984.9	988.2	1006.0	989.9	1001.9	1001.5	1020.5	1016.0	1021.3
37.5°	921.7	885.3	843.9	820.4	823.7	803.4	799.3	809.2	815.8	803.0	807.6
40°	820.8	767.0	702.5	648.8	645.9	620.7	616.1	606.2	619.0	608.2	611.6
42.5°	746.4	675.2	590.5	525.1	511.1	490.0	477.6	475.9	479.7	472.2	470.1
45°	689.3	613.6	516.5	441.6	425.9	403.2	390.8	386.2	386.6	384.1	382.1
47.5°	622.3	546.2	447.8	371.3	353.5	332.0	319.6	316.7	318.4	315.1	312.6
50°	529.7	461.5	371.7	301.8	286.1	270.4	260.5	257.6	257.2	254.7	253.1
52.5°	430.0	373.4	295.6	237.3	223.3	208.0	201.0	197.2	197.6	195.2	192.7
55°	332.9	297.7	229.1	179.5	166.6	154.6	148.0	143.5	142.2	139.8	138.5
57.5°	247.7	224.1	171.6	129.4	122.0	110.4	103.8	98.4	97.6	96.3	95.9
60°	173.7	156.7	120.7	92.2	83.5	76.5	69.9	64.5	62.0	61.6	60.4
62.5°	112.5	102.1	79.4	61.6	55.0	50.0	43.4	39.7	38.0	36.4	36.8
65°	69.9	62.0	49.6	39.7	36.0	32.3	27.3	24.0	22.3	20.7	21.1
67.5°	43.4	38.9	31.4	25.6	23.2	20.3	16.5	14.1	12.8	11.6	10.8
70°	29.4	25.2	21.5	18.2	16.5	14.5	12.0	9.9	9.1	8.3	7.4
72.5°	20.7	18.6	15.7	13.6	12.4	10.8	9.1	7.9	7.0	6.2	5.4
75°	14.9	13.2	11.6	9.9	9.1	8.3	7.0	6.2	5.4	4.5	3.7
77.5°	10.8	9.5	8.3	7.4	7.0	5.8	5.0	4.5	4.1	3.3	2.5
80°	7.4	6.6	5.4	5.0	5.0	4.1	3.7	3.3	2.9	2.1	1.7
82.5°	5.0	4.5	4.1	3.7	3.3	2.9	2.9	2.1	1.7	1.2	0.8
85°	3.7	3.3	2.9	2.5	2.5	2.1	1.7	1.2	1.2	0.8	0.4
87.5°	2.1	2.1	1.7	1.2	1.2	0.8	0.8	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°	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1587.8	1589.1	1596.1	1590.7	1604.3	1614.3	1609.3	1620.5	1616.8	1615.9	1628.7
5°	1598.6	1601.5	1611.0	1606.0	1620.9	1631.6	1626.7	1639.1	1635.4	1634.5	1647.8
7.5°	1619.2	1622.1	1630.4	1626.3	1642.0	1651.5	1645.3	1658.9	1654.0	1653.6	1666.4
10°	1645.3	1649.4	1656.4	1652.3	1666.8	1675.1	1668.9	1682.1	1677.5	1675.5	1689.5
12.5°	1664.7	1667.6	1674.6	1671.3	1685.4	1691.6	1686.2	1699.0	1693.3	1691.6	1704.0
15°	1660.2	1663.1	1668.9	1666.0	1679.2	1685.0	1678.0	1692.0	1686.2	1682.9	1694.1
17.5°	1631.2	1632.9	1637.0	1634.1	1648.2	1651.9	1644.0	1658.1	1652.7	1646.9	1657.7
20°	1588.6	1587.8	1590.3	1589.1	1600.6	1602.7	1597.7	1608.1	1601.9	1598.6	1604.8
22.5°	1535.7	1534.9	1536.5	1533.2	1544.8	1546.0	1538.6	1551.0	1544.8	1538.6	1548.9
25°	1477.0	1472.4	1471.6	1472.9	1480.7	1482.0	1474.1	1483.2	1475.3	1470.4	1480.3
27.5°	1404.6	1398.8	1397.6	1398.8	1406.7	1400.9	1394.3	1400.9	1393.1	1388.5	1394.7
30°	1315.3	1307.0	1303.3	1300.8	1309.1	1307.0	1291.7	1299.2	1286.8	1280.2	1284.7
32.5°	1195.0	1190.4	1180.5	1174.7	1182.6	1166.9	1157.4	1157.4	1152.4	1141.2	1143.7
35°	1027.9	1020.9	1011.8	1006.9	1008.1	987.0	971.3	974.6	958.1	955.2	956.4
37.5°	816.6	805.1	801.8	791.4	793.9	775.3	753.8	754.2	745.5	736.4	733.5
40°	613.6	611.6	608.2	599.6	602.9	582.6	574.3	574.8	569.0	562.3	565.7
42.5°	474.3	467.7	465.6	462.7	463.5	460.2	449.5	450.7	445.7	444.1	442.4
45°	385.4	378.3	373.4	375.9	375.9	372.1	368.0	370.5	368.0	364.7	366.4
47.5°	317.6	310.9	308.5	308.1	310.9	308.5	304.3	305.2	304.7	303.5	302.7
50°	253.5	251.8	249.7	248.5	249.7	248.9	245.2	247.3	248.5	244.4	245.6
52.5°	193.1	193.1	192.7	189.8	192.3	189.8	189.4	190.2	189.0	187.3	186.9
55°	141.4	140.2	138.1	137.7	138.5	137.7	136.9	137.3	138.1	134.0	134.0
57.5°	96.8	95.9	94.7	94.7	96.3	94.3	93.0	94.7	93.0	91.4	91.4
60°	62.0	61.6	60.4	60.4	60.4	60.0	58.7	59.1	60.0	57.5	57.9
62.5°	37.2	36.0	35.6	35.1	35.6	35.1	35.1	34.7	34.3	34.3	33.1
65°	20.3	19.4	18.6	19.0	19.0	18.6	18.6	18.6	17.8	17.4	17.0
67.5°	10.3	9.5	9.5	9.1	9.1	9.1	9.1	8.7	8.7	8.7	8.3
70°	6.6	6.2	5.8	5.8	5.8	5.4	5.4	5.4	5.4	5.4	5.0
72.5°	4.5	4.1	3.7	3.7	3.7	3.3	3.3	3.3	3.3	2.9	2.9
75°	3.3	2.9	2.5	2.5	2.5	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2	1.2	0.8
80°	1.2	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
82.5°	0.8	0.8	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: P244155

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1624.2	1620.9	1623.0	1638.3	1631.6	1629.6	1612.2	1627.5
5°	1643.6	1641.2	1641.2	1658.5	1650.7	1649.0	1632.1	1645.3
7.5°	1661.8	1659.3	1659.8	1677.5	1671.3	1668.9	1651.9	1665.1
10°	1685.4	1683.7	1684.2	1701.1	1694.5	1692.0	1674.6	1688.3
12.5°	1699.5	1697.0	1697.0	1715.2	1707.7	1704.0	1687.5	1700.7
15°	1688.7	1685.0	1685.0	1703.2	1694.9	1689.5	1675.1	1687.5
17.5°	1651.9	1648.2	1648.2	1663.9	1657.7	1649.8	1634.9	1646.5
20°	1600.6	1596.1	1594.8	1613.0	1604.3	1597.3	1584.1	1595.3
22.5°	1542.7	1540.7	1537.0	1555.1	1547.3	1539.8	1525.8	1534.5
25°	1473.3	1470.0	1466.2	1484.0	1476.2	1468.7	1457.6	1464.6
27.5°	1386.9	1387.3	1385.2	1399.3	1391.4	1387.3	1373.6	1385.2
30°	1282.2	1277.7	1276.0	1292.6	1285.1	1279.8	1262.8	1274.0
32.5°	1145.8	1139.2	1130.5	1149.1	1136.3	1131.7	1117.3	1133.4
35°	947.3	945.2	937.4	953.1	946.1	937.8	928.7	942.3
37.5°	732.3	733.9	733.1	737.3	733.1	727.7	717.8	712.9
40°	559.0	554.9	551.6	559.0	550.4	550.4	544.6	550.8
42.5°	438.3	436.6	440.8	442.4	437.5	436.6	435.8	435.4
45°	361.8	361.8	362.6	364.3	362.6	361.8	359.3	357.7
47.5°	298.1	299.8	298.1	303.5	300.6	299.8	294.8	296.9
50°	241.5	239.4	241.5	243.1	243.5	241.1	238.6	239.8
52.5°	187.3	184.0	183.2	185.7	184.0	184.0	182.4	181.9
55°	131.9	133.1	131.1	133.1	132.3	131.1	129.8	131.5
57.5°	89.3	89.7	88.9	90.1	88.1	88.5	88.1	87.7
60°	57.9	56.2	56.2	57.5	55.4	55.4	55.0	55.0
62.5°	33.1	32.7	32.7	32.3	31.8	31.8	31.8	31.0
65°	17.0	16.5	16.1	16.1	16.1	16.1	15.7	15.7
67.5°	8.3	7.9	7.9	8.3	7.9	7.9	7.9	7.9
70°	5.0	5.0	4.5	5.0	4.5	4.5	4.5	4.5
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)