

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: P245469

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30835 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3160.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

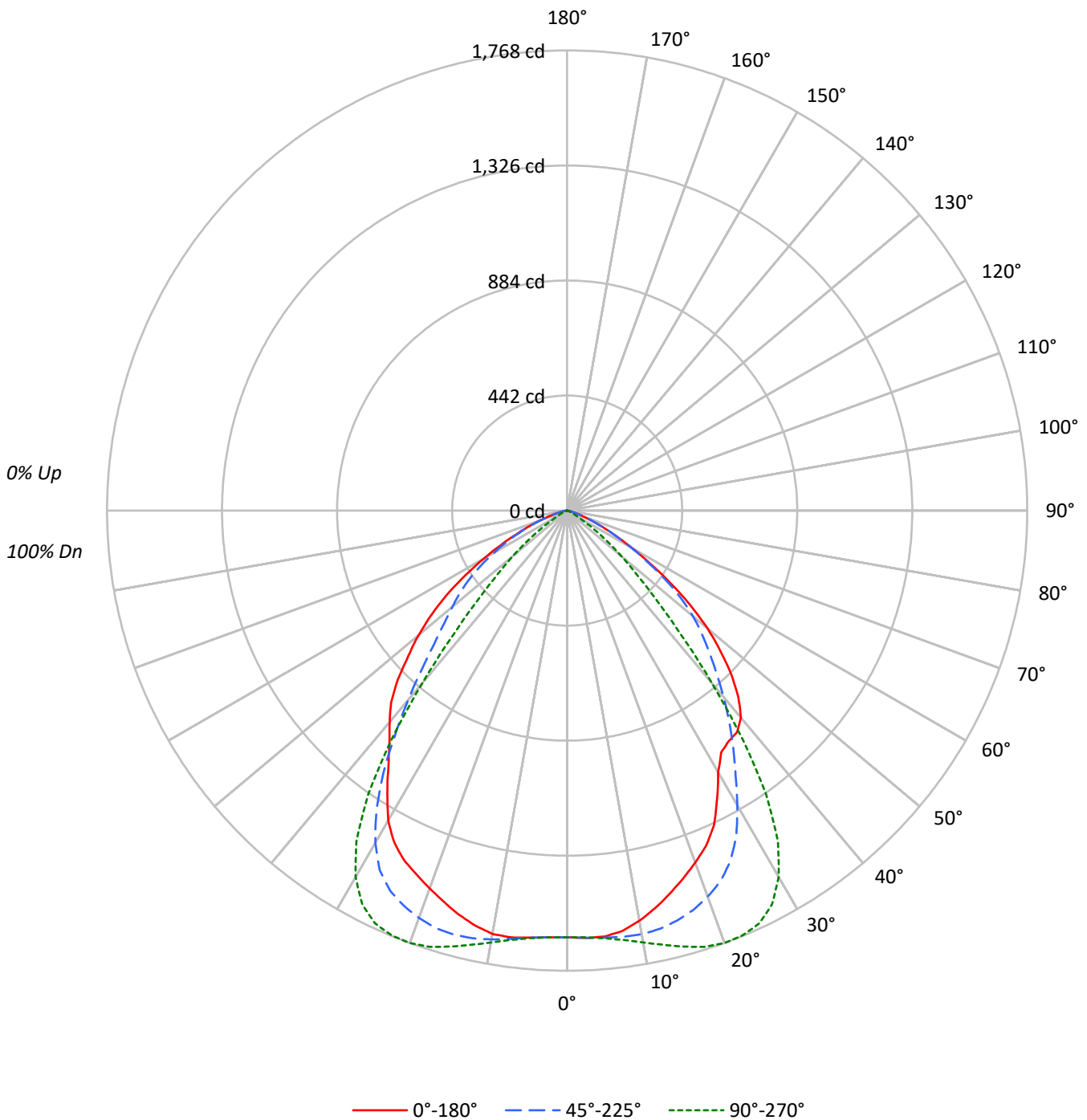
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	50550	50550	50550
5°	50851	51040	50985
10°	50102	52748	51712
15°	48640	55360	51305
20°	47228	58021	50683
25°	45415	59505	50448
30°	41329	57875	48952
35°	40716	50150	45038
40°	41820	34779	42697
45°	38930	21020	40147
50°	33768	12981	35773
55°	25913	6785	30359
60°	17657	2738	22911
65°	10981	1394	15812
70°	5960	866	9647
75°	3110	417	5707
80°	1385	462	3090
85°	920	318	2760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	5.0
10°-20°	467.0	14.8
20°-30°	712.5	22.5
30°-40°	743.5	23.5
40°-50°	558.5	17.7
50°-60°	343.6	10.9
60°-70°	139.8	4.4
70°-80°	32.9	1.0
80°-90°	4.5	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°	1337.1	42.3
0°-40°	2080.6	65.8
0°-60°	2982.7	94.4
0°-90°	3160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1639	1639	1639	1639	1639	
5°	1643	1647	1649	1647	1647	155
15°	1524	1631	1734	1686	1607	429
25°	1335	1484	1749	1611	1483	607
35°	1082	1112	1332	1231	1196	683
45°	893	773	482	720	921	681
55°	482	458	126	458	565	433
65°	150	152	19	204	217	157
75°	26	26	4	46	48	31
85°	3	3	1	6	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1643.7	1641.0	1643.7	1643.7	1644.5	1642.8	1643.7	1644.5	1642.8	1642.8	1642.8
5°	1642.8	1641.0	1642.8	1641.9	1643.7	1643.7	1645.4	1645.4	1647.1	1647.1	1649.7
7.5°	1628.9	1625.4	1628.9	1631.5	1633.2	1636.7	1641.0	1644.5	1648.0	1651.5	1655.8
10°	1600.1	1600.1	1602.8	1608.0	1613.2	1619.3	1627.1	1635.8	1644.5	1652.3	1660.2
12.5°	1564.5	1561.9	1567.1	1574.0	1581.9	1591.5	1603.6	1616.7	1630.6	1646.3	1658.5
15°	1523.6	1521.0	1527.1	1534.0	1543.6	1557.5	1572.3	1589.7	1609.7	1630.6	1650.6
17.5°	1481.8	1480.9	1487.0	1496.6	1504.4	1519.2	1538.4	1559.2	1581.9	1609.7	1635.8
20°	1439.2	1438.3	1444.4	1452.2	1462.7	1476.6	1495.7	1520.1	1547.1	1578.4	1608.9
22.5°	1394.8	1395.7	1400.9	1409.6	1418.3	1433.1	1453.1	1477.5	1507.0	1541.0	1574.9
25°	1334.8	1330.4	1337.4	1346.1	1360.9	1373.0	1392.2	1418.3	1448.7	1484.4	1524.5
27.5°	1247.7	1246.9	1253.0	1260.8	1273.8	1288.6	1309.5	1336.5	1368.7	1407.8	1447.0
30°	1160.7	1162.5	1165.1	1172.9	1181.6	1196.4	1217.3	1239.9	1270.4	1307.8	1349.6
32.5°	1101.6	1101.6	1105.1	1110.3	1116.4	1124.2	1139.0	1155.5	1179.0	1205.1	1235.6
35°	1081.6	1078.1	1081.6	1082.4	1083.3	1085.0	1087.6	1092.9	1100.7	1112.0	1123.3
37.5°	1072.9	1070.2	1070.2	1066.8	1062.4	1057.2	1050.2	1042.4	1033.7	1022.4	1013.7
40°	1038.9	1037.2	1035.4	1032.0	1022.4	1012.0	1000.6	982.4	962.3	934.5	906.7
42.5°	973.7	971.9	971.1	964.1	955.4	943.2	930.2	911.0	885.8	850.1	810.1
45°	892.7	889.3	886.7	880.6	874.5	864.0	851.8	834.4	809.2	772.7	724.8
47.5°	798.8	797.0	796.2	793.6	787.5	781.4	773.5	759.6	737.0	702.2	652.6
50°	703.9	700.5	702.2	701.3	698.7	694.4	689.1	679.6	662.2	630.8	585.6
52.5°	595.2	595.2	594.3	596.9	597.8	596.9	597.8	587.3	572.5	549.0	510.8
55°	482.0	482.0	484.7	488.1	491.6	492.5	491.6	487.3	476.8	457.7	423.7
57.5°	375.9	374.2	379.4	384.6	388.1	391.6	388.9	385.5	379.4	363.7	337.6
60°	286.3	286.3	289.7	293.2	296.7	300.2	299.3	298.4	293.2	282.8	261.9
62.5°	210.6	211.4	211.4	214.1	217.5	221.0	223.6	221.0	218.4	211.4	197.5
65°	150.5	149.7	150.5	153.1	155.8	159.2	161.0	160.1	157.5	152.3	141.8
67.5°	100.9	100.1	103.5	104.4	106.2	109.6	108.8	109.6	108.8	104.4	95.7
70°	66.1	64.4	66.1	65.3	67.9	68.7	70.5	71.3	70.5	67.9	65.3
72.5°	40.9	40.0	40.9	41.8	42.6	43.5	45.2	45.2	44.4	42.6	39.2
75°	26.1	23.5	24.4	22.6	24.4	24.4	26.1	27.0	26.1	26.1	24.4
77.5°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	16.5	17.4	15.7	14.8
80°	7.8	7.8	8.7	8.7	8.7	9.6	8.7	8.7	8.7	9.6	7.0
82.5°	6.1	5.2	5.2	5.2	6.1	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.6	3.5	2.6	1.7	2.6	2.6	3.5	2.6	2.6	2.6	3.5
87.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1643.7	1641.9	1641.9	1641.0	1642.8	1641.0	1641.9	1641.0	1641.0	1642.8	1641.0
5°	1649.7	1650.6	1648.9	1648.0	1650.6	1650.6	1650.6	1648.9	1648.9	1649.7	1648.9
7.5°	1658.5	1660.2	1661.1	1661.9	1663.7	1664.5	1664.5	1663.7	1662.8	1665.4	1661.9
10°	1668.0	1670.6	1675.9	1678.5	1682.8	1682.8	1684.6	1684.6	1682.8	1684.6	1683.7
12.5°	1664.5	1680.2	1688.9	1695.0	1701.1	1706.3	1708.0	1708.9	1708.0	1711.5	1708.0
15°	1670.6	1683.7	1697.6	1708.0	1719.3	1725.4	1727.2	1734.1	1735.9	1736.8	1731.5
17.5°	1661.1	1684.6	1699.3	1715.0	1731.5	1742.9	1753.3	1757.6	1758.5	1760.2	1753.3
20°	1639.3	1665.4	1688.0	1710.7	1729.8	1747.2	1755.9	1768.1	1764.6	1771.6	1762.0
22.5°	1609.7	1639.3	1668.0	1697.6	1717.6	1738.5	1756.8	1765.5	1769.8	1769.8	1759.4
25°	1562.7	1597.5	1628.9	1659.3	1689.8	1715.0	1735.9	1748.9	1751.6	1750.7	1738.5
27.5°	1489.6	1527.1	1563.6	1598.4	1635.8	1665.4	1689.8	1705.4	1709.8	1709.8	1696.7
30°	1388.7	1428.7	1464.4	1506.2	1544.5	1577.5	1611.5	1625.4	1633.2	1633.2	1618.4
32.5°	1268.6	1302.6	1335.6	1376.5	1418.3	1455.7	1487.9	1507.0	1516.6	1515.7	1502.7
35°	1138.1	1154.6	1179.9	1210.3	1247.7	1282.6	1313.9	1332.2	1348.7	1347.8	1335.6
37.5°	1007.6	1003.2	1005.9	1017.2	1040.7	1065.0	1089.4	1106.8	1120.7	1126.8	1124.2
40°	879.7	857.1	835.3	827.5	829.2	837.9	851.0	864.0	879.7	887.5	891.0
42.5°	764.8	726.6	688.3	659.6	643.0	637.8	643.9	648.2	657.8	669.1	680.4
45°	672.6	621.3	570.8	526.4	498.6	482.0	478.6	482.0	487.3	498.6	513.4
47.5°	596.9	536.9	480.3	430.7	389.8	368.1	362.0	360.2	365.4	375.9	395.9
50°	529.9	469.9	407.2	349.8	307.2	282.8	274.1	270.6	276.7	284.5	302.8
52.5°	456.8	397.6	333.3	277.6	233.2	208.0	198.4	193.2	196.6	207.1	225.4
55°	377.6	322.8	264.5	207.1	164.4	141.0	129.6	126.2	129.6	141.0	159.2
57.5°	298.4	252.3	203.6	149.7	111.4	87.9	76.6	73.1	82.7	87.0	106.2
60°	233.2	195.8	154.0	109.6	76.6	58.3	47.0	44.4	48.7	56.5	72.2
62.5°	174.9	151.4	118.3	78.3	56.5	37.4	31.3	28.7	31.3	37.4	49.6
65°	127.0	108.8	82.7	57.4	38.3	27.8	20.9	19.1	21.8	26.1	36.6
67.5°	87.0	73.1	57.4	40.0	26.1	17.4	14.8	14.8	15.7	19.1	27.0
70°	56.5	47.9	36.6	26.1	17.4	13.1	11.3	9.6	11.3	13.9	18.3
72.5°	35.7	30.4	23.5	18.3	13.1	9.6	7.8	7.0	8.7	10.4	13.9
75°	21.8	16.5	12.2	9.6	7.0	7.0	7.0	3.5	4.3	7.0	8.7
77.5°	13.1	11.3	9.6	7.8	6.1	3.5	3.5	3.5	4.3	5.2	7.8
80°	7.0	6.1	4.3	4.3	3.5	2.6	3.5	2.6	1.7	4.3	5.2
82.5°	4.3	3.5	3.5	3.5	4.3	1.7	2.6	1.7	2.6	3.5	2.6
85°	2.6	2.6	2.6	1.7	4.3	1.7	1.7	0.9	0.9	1.7	1.7
87.5°	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1641.9	1641.0	1641.9	1641.0	1641.0	1641.0	1641.9	1641.9	1641.0	1641.0	1642.8
5°	1648.9	1648.9	1648.9	1648.0	1647.1	1647.1	1648.9	1648.9	1646.3	1648.9	1648.9
7.5°	1663.7	1661.1	1663.7	1660.2	1658.5	1659.3	1660.2	1658.5	1656.7	1657.6	1657.6
10°	1682.8	1680.2	1680.2	1677.6	1675.0	1673.2	1671.5	1667.1	1662.8	1661.9	1658.5
12.5°	1705.4	1701.1	1698.5	1693.2	1688.9	1682.8	1677.6	1670.6	1661.9	1655.8	1649.7
15°	1728.1	1721.1	1715.0	1706.3	1696.7	1686.3	1675.0	1663.7	1649.7	1637.6	1627.1
17.5°	1746.3	1736.8	1725.4	1711.5	1697.6	1681.9	1665.4	1648.9	1628.9	1613.2	1601.0
20°	1752.4	1738.5	1723.7	1705.4	1687.2	1665.4	1644.5	1622.8	1600.1	1583.6	1569.7
22.5°	1744.6	1728.1	1709.8	1690.6	1666.3	1642.8	1618.4	1593.2	1573.2	1550.6	1537.5
25°	1722.8	1702.8	1682.8	1660.2	1636.7	1610.6	1584.5	1558.4	1534.0	1521.8	1505.3
27.5°	1678.5	1656.7	1635.0	1611.5	1584.5	1558.4	1531.4	1506.2	1485.3	1468.8	1459.2
30°	1600.1	1574.9	1549.7	1524.5	1501.0	1474.0	1448.7	1427.9	1407.0	1393.9	1384.4
32.5°	1480.1	1457.5	1432.2	1407.8	1386.1	1363.5	1342.6	1324.3	1309.5	1300.8	1293.9
35°	1318.2	1295.6	1276.5	1259.1	1240.8	1231.2	1218.2	1207.7	1201.6	1198.2	1197.3
37.5°	1114.6	1101.6	1095.5	1092.0	1088.5	1085.9	1087.6	1092.0	1095.5	1101.6	1108.5
40°	897.1	908.4	911.9	924.1	935.4	950.2	966.7	985.9	1001.5	1021.5	1035.4
42.5°	698.7	719.6	744.0	770.1	797.9	824.9	857.9	888.4	916.2	941.5	963.2
45°	536.9	569.0	605.6	643.0	680.4	719.6	759.6	797.0	830.1	857.1	879.7
47.5°	418.5	454.2	501.2	547.3	592.6	638.7	683.0	722.2	750.0	776.1	796.2
50°	331.5	372.4	423.7	476.8	526.4	575.1	622.1	658.7	686.5	707.4	722.2
52.5°	256.7	305.4	357.6	413.3	466.4	519.5	563.0	596.9	619.5	637.8	649.1
55°	191.4	239.3	295.0	352.4	406.3	457.7	498.6	528.2	548.2	558.6	564.7
57.5°	138.3	181.9	237.5	295.0	343.7	392.4	425.5	452.5	463.8	469.9	472.5
60°	100.9	141.0	190.5	240.2	286.3	325.4	354.1	372.4	381.1	384.6	383.7
62.5°	74.0	108.8	151.4	193.2	230.6	262.8	285.4	297.6	301.9	303.7	301.1
65°	56.5	83.5	120.1	152.3	181.0	204.5	221.0	228.9	231.4	230.6	228.9
67.5°	41.8	62.7	89.6	114.0	134.9	153.1	161.8	168.8	170.5	167.9	165.3
70°	29.6	46.1	65.3	81.8	97.4	107.9	117.5	118.3	118.3	117.5	115.7
72.5°	20.9	32.2	44.4	55.7	65.3	73.1	76.6	79.2	78.3	77.4	75.7
75°	13.9	20.0	32.2	34.8	43.5	46.1	49.6	49.6	50.5	47.9	47.9
77.5°	8.7	13.9	19.1	22.6	26.1	29.6	31.3	31.3	32.2	31.3	31.3
80°	5.2	8.7	10.4	15.7	15.7	18.3	19.1	20.0	18.3	20.9	18.3
82.5°	3.5	5.2	7.8	7.8	9.6	11.3	11.3	12.2	12.2	11.3	11.3
85°	2.6	3.5	4.3	5.2	5.2	6.1	5.2	5.2	6.1	7.0	6.1
87.5°	0.9	1.7	0.9	1.7	1.7	3.5	2.6	2.6	2.6	3.5	3.5
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: P245469

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1639.3	1639.3	1639.3	1639.3
2.5°	1641.0	1641.9	1641.0	1641.0
5°	1648.9	1648.0	1648.9	1647.1
7.5°	1655.0	1655.0	1654.1	1654.1
10°	1655.0	1651.5	1651.5	1651.5
12.5°	1641.9	1637.6	1635.0	1633.2
15°	1619.3	1611.5	1608.0	1607.1
17.5°	1589.7	1582.7	1578.4	1575.8
20°	1555.8	1548.8	1543.6	1544.5
22.5°	1526.2	1518.4	1514.9	1513.1
25°	1496.6	1487.0	1484.4	1482.7
27.5°	1448.7	1443.5	1440.9	1438.3
30°	1375.7	1373.0	1368.7	1374.8
32.5°	1291.3	1286.9	1283.4	1286.0
35°	1198.2	1195.5	1198.2	1196.4
37.5°	1112.9	1115.5	1119.0	1120.7
40°	1045.9	1055.5	1058.9	1060.7
42.5°	978.9	990.2	997.2	1001.5
45°	896.2	907.5	915.4	920.6
47.5°	811.0	820.5	828.3	827.5
50°	733.5	738.7	742.2	745.7
52.5°	655.2	655.2	656.1	656.1
55°	566.5	564.7	563.8	564.7
57.5°	469.0	467.3	466.4	463.8
60°	380.2	375.0	371.5	371.5
62.5°	297.6	291.5	288.9	288.0
65°	223.6	222.7	217.5	216.7
67.5°	161.8	158.4	154.9	155.8
70°	114.0	108.8	108.8	107.0
72.5°	74.0	71.3	70.5	70.5
75°	46.1	46.1	44.4	47.9
77.5°	30.4	30.4	29.6	30.4
80°	18.3	18.3	18.3	17.4
82.5°	11.3	12.2	11.3	11.3
85°	6.1	7.0	5.2	7.8
87.5°	3.5	4.3	3.5	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)