

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: P244605

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30835 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3136.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

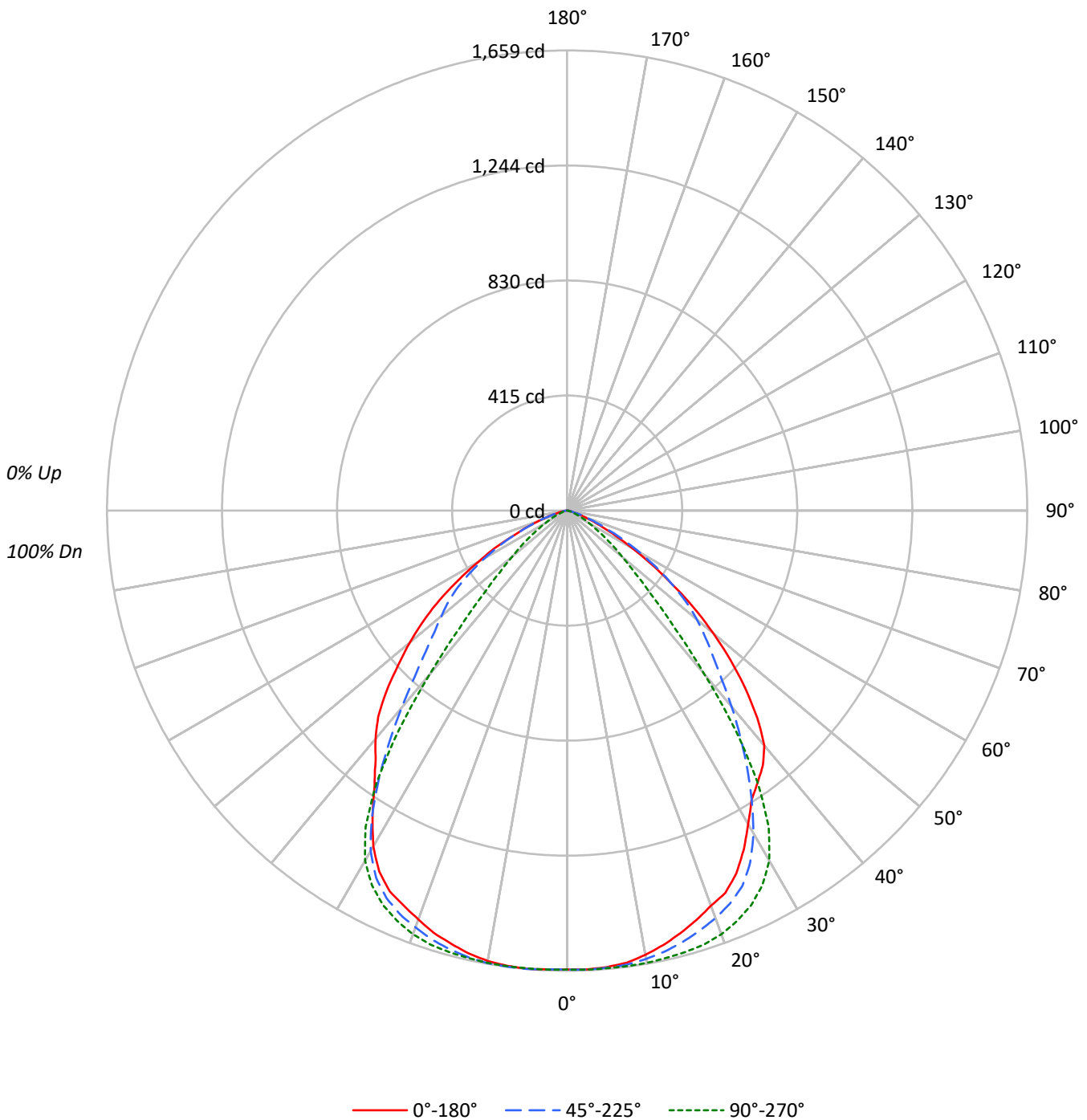
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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

	0°	90°	180°
0°	51022	51022	51022
5°	51133	51272	51328
10°	50920	51837	51615
15°	50354	52595	51602
20°	49751	53335	51471
25°	49104	53397	51523
30°	46456	51893	49775
35°	45068	45102	45572
40°	44509	31032	43261
45°	39663	18630	40203
50°	32976	12401	35533
55°	24736	8548	30128
60°	16763	5699	22733
65°	10113	3692	15614
70°	5608	2002	9611
75°	2538	846	4968
80°	2202	941	3463
85°	2512	1238	3467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	5.0
10°-20°	458.6	14.6
20°-30°	696.1	22.2
30°-40°	731.1	23.3
40°-50°	548.1	17.5
50°-60°	351.7	11.2
60°-70°	150.4	4.8
70°-80°	35.5	1.1
80°-90°	6.6	0.2
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°	1312.6	41.9
0°-40°	2043.6	65.2
0°-60°	2943.4	93.9
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1655	1655	1655	1655	1655	
5°	1652	1655	1656	1659	1658	157
15°	1577	1610	1648	1637	1616	445
25°	1443	1494	1569	1541	1514	659
35°	1197	1131	1198	1184	1211	751
45°	910	743	427	722	922	696
55°	460	460	159	480	560	417
65°	139	163	51	210	214	148
75°	21	25	7	43	42	31
85°	7	4	4	7	10	7
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°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1655.5	1657.3	1656.4	1656.4	1655.5	1656.4	1656.4	1658.2	1658.2	1656.4	1655.5
5°	1651.9	1653.7	1653.7	1651.9	1651.9	1656.4	1653.7	1655.5	1655.5	1654.6	1654.6
7.5°	1644.0	1644.0	1647.5	1644.9	1644.9	1647.5	1646.6	1648.4	1650.2	1651.1	1651.1
10°	1626.2	1628.0	1628.9	1628.9	1629.8	1632.4	1634.2	1637.8	1639.5	1641.3	1642.2
12.5°	1604.0	1606.7	1607.5	1606.7	1609.3	1612.9	1617.3	1621.8	1624.4	1628.0	1630.6
15°	1577.3	1577.3	1579.1	1581.8	1583.6	1588.9	1593.3	1598.7	1605.8	1610.2	1614.7
17.5°	1548.0	1549.8	1552.5	1552.5	1556.0	1564.9	1567.6	1575.6	1583.6	1588.0	1596.9
20°	1516.1	1517.8	1520.5	1522.3	1526.7	1533.8	1539.2	1546.3	1555.1	1563.1	1572.0
22.5°	1491.2	1487.7	1489.4	1491.2	1495.6	1501.9	1508.1	1516.9	1525.8	1533.8	1542.7
25°	1443.2	1444.1	1446.8	1448.6	1453.9	1459.2	1466.3	1477.0	1485.0	1493.9	1503.6
27.5°	1378.4	1379.3	1383.7	1383.7	1388.2	1397.1	1401.5	1410.4	1421.0	1429.9	1441.5
30°	1304.7	1306.5	1306.5	1310.0	1312.7	1317.1	1321.6	1330.4	1335.8	1343.8	1359.8
32.5°	1237.2	1239.0	1238.1	1237.2	1234.5	1233.6	1232.7	1234.5	1236.3	1239.0	1245.2
35°	1197.2	1192.8	1189.2	1183.0	1175.9	1167.0	1159.0	1148.4	1138.6	1130.6	1121.7
37.5°	1159.0	1158.1	1152.8	1143.9	1129.7	1113.7	1095.1	1072.0	1048.9	1024.0	1000.1
40°	1105.7	1103.1	1098.6	1086.2	1070.2	1050.7	1025.8	997.4	960.1	921.9	882.8
42.5°	1015.1	1016.0	1010.7	1000.9	985.8	967.2	941.4	910.4	870.4	825.1	774.5
45°	909.5	909.5	907.7	899.7	889.0	873.9	854.4	828.6	789.6	743.4	689.2
47.5°	799.3	800.2	797.5	795.8	791.3	781.6	767.4	747.8	720.3	675.9	621.7
50°	687.4	687.4	691.9	691.0	691.0	687.4	681.2	669.7	645.7	610.2	559.5
52.5°	575.5	577.3	580.0	583.5	587.9	595.1	587.9	582.6	567.5	540.0	496.5
55°	460.1	461.8	466.3	472.5	477.8	484.9	486.7	486.7	478.7	460.1	427.2
57.5°	361.5	358.8	362.4	367.7	374.8	381.9	387.2	393.4	392.6	380.1	353.5
60°	271.8	272.7	275.3	280.7	286.0	292.2	299.3	304.6	307.3	301.1	284.2
62.5°	198.1	198.1	201.6	206.9	209.6	218.5	222.9	225.6	228.2	227.4	216.7
65°	138.6	140.3	142.1	144.8	147.4	152.8	155.4	160.7	162.5	163.4	155.4
67.5°	97.7	95.0	96.8	98.6	101.2	104.8	110.1	110.1	112.8	112.8	107.5
70°	62.2	62.2	63.1	65.7	67.5	68.4	70.2	71.9	74.6	73.7	73.7
72.5°	41.7	40.9	41.7	42.6	43.5	46.2	46.2	47.1	48.9	49.7	46.2
75°	21.3	22.2	24.0	23.1	25.8	24.0	24.9	27.5	26.6	24.9	24.9
77.5°	17.8	17.8	17.8	16.9	18.6	18.6	17.8	19.5	18.6	18.6	17.8
80°	12.4	13.3	12.4	11.5	12.4	11.5	11.5	11.5	11.5	11.5	10.6
82.5°	9.8	8.0	8.9	8.0	8.9	8.9	8.0	7.1	7.1	8.0	7.1
85°	7.1	5.3	6.2	6.2	5.3	5.3	5.3	5.3	5.3	4.4	4.4
87.5°	4.4	2.7	2.7	2.7	3.5	3.5	3.5	2.7	3.5	3.5	1.8
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°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1657.3	1656.4	1658.2	1657.3	1657.3	1656.4	1657.3	1656.4	1658.2	1654.6	1655.5
5°	1657.3	1655.5	1656.4	1657.3	1658.2	1656.4	1656.4	1656.4	1658.2	1656.4	1657.3
7.5°	1653.7	1652.8	1655.5	1657.3	1656.4	1655.5	1657.3	1656.4	1658.2	1657.3	1659.0
10°	1646.6	1647.5	1649.3	1651.9	1652.8	1653.7	1655.5	1655.5	1658.2	1654.6	1656.4
12.5°	1636.0	1639.5	1644.0	1645.7	1649.3	1649.3	1651.1	1651.9	1653.7	1652.8	1655.5
15°	1622.6	1627.1	1632.4	1636.9	1641.3	1644.0	1646.6	1647.5	1650.2	1647.5	1648.4
17.5°	1606.7	1612.0	1620.0	1625.3	1632.4	1635.1	1638.6	1640.4	1643.1	1641.3	1642.2
20°	1584.4	1590.7	1599.5	1607.5	1612.0	1618.2	1622.6	1625.3	1627.1	1625.3	1626.2
22.5°	1553.4	1562.3	1573.8	1580.0	1588.9	1594.2	1595.1	1601.3	1605.8	1601.3	1603.1
25°	1516.9	1525.8	1534.7	1548.0	1556.0	1562.3	1568.5	1569.4	1573.8	1572.9	1572.0
27.5°	1456.6	1468.1	1483.2	1493.9	1504.5	1514.3	1521.4	1523.2	1527.6	1525.8	1526.7
30°	1374.0	1386.4	1400.6	1417.5	1432.6	1442.3	1451.2	1457.4	1461.9	1459.2	1458.3
32.5°	1256.7	1269.2	1284.3	1301.1	1318.9	1333.1	1343.8	1351.8	1357.1	1355.3	1350.9
35°	1122.6	1126.2	1135.9	1149.3	1164.4	1179.5	1189.2	1198.1	1204.3	1206.1	1206.1
37.5°	985.0	973.4	966.3	966.3	975.2	981.4	990.3	995.6	1005.4	1008.9	1011.6
40°	851.7	825.1	800.2	781.6	769.1	768.3	768.3	770.9	779.8	791.3	802.0
42.5°	732.7	690.1	651.9	617.3	592.4	578.2	572.0	572.9	580.0	590.6	608.4
45°	637.7	584.4	536.4	494.7	460.9	438.7	428.1	427.2	432.5	445.0	464.5
47.5°	564.0	507.1	453.0	405.0	368.6	344.6	332.2	328.6	332.2	343.7	366.8
50°	502.7	444.1	388.1	338.4	299.3	274.4	262.9	258.5	262.9	272.7	295.7
52.5°	445.8	385.5	333.1	285.1	243.3	222.0	209.6	206.9	209.6	221.1	239.8
55°	380.1	328.6	277.1	229.1	192.7	171.4	161.6	159.0	161.6	172.3	191.8
57.5°	315.3	270.9	225.6	182.1	151.0	132.3	123.5	119.9	126.1	133.2	156.3
60°	254.9	219.4	181.2	143.0	117.2	100.4	93.3	92.4	94.1	103.0	119.0
62.5°	199.8	170.5	140.3	109.2	87.9	80.8	71.9	71.1	72.8	78.1	90.6
65°	143.9	125.2	102.1	79.9	63.1	53.3	49.7	50.6	52.4	56.0	67.5
67.5°	100.4	87.0	71.1	56.0	43.5	39.1	35.5	34.6	35.5	41.7	48.0
70°	67.5	59.5	48.0	42.6	30.2	24.0	24.9	22.2	25.8	25.8	31.1
72.5°	44.4	39.1	32.0	24.9	21.3	16.9	16.9	16.0	17.8	18.6	23.1
75°	23.1	17.8	17.8	12.4	8.9	4.4	8.0	7.1	6.2	7.1	8.9
77.5°	16.0	13.3	12.4	9.8	8.9	7.1	7.1	7.1	7.1	8.0	8.9
80°	9.8	9.8	7.1	6.2	5.3	4.4	5.3	5.3	5.3	5.3	6.2
82.5°	6.2	5.3	5.3	4.4	4.4	3.5	3.5	3.5	3.5	3.5	5.3
85°	5.3	3.5	3.5	2.7	3.5	6.2	2.7	3.5	3.5	3.5	2.7
87.5°	1.8	2.7	2.7	2.7	1.8	0.9	1.8	2.7	2.7	4.4	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1657.3	1658.2	1658.2	1657.3	1657.3	1655.5	1659.0	1656.4	1657.3	1660.8	1658.2
5°	1659.0	1659.9	1659.9	1659.0	1659.0	1659.0	1659.9	1659.9	1659.0	1658.2	1659.9
7.5°	1662.6	1661.7	1661.7	1659.9	1659.9	1658.2	1659.9	1657.3	1659.0	1657.3	1659.9
10°	1658.2	1659.0	1658.2	1657.3	1657.3	1656.4	1656.4	1653.7	1654.6	1651.9	1653.7
12.5°	1655.5	1654.6	1654.6	1652.8	1651.1	1649.3	1648.4	1645.7	1645.7	1639.5	1642.2
15°	1648.4	1649.3	1646.6	1643.1	1641.3	1636.9	1635.1	1631.5	1628.0	1623.5	1624.4
17.5°	1642.2	1639.5	1636.0	1632.4	1625.3	1621.8	1618.2	1612.9	1611.1	1605.8	1604.0
20°	1623.5	1621.8	1617.3	1611.1	1606.7	1598.7	1595.1	1589.8	1585.3	1580.0	1577.3
22.5°	1599.5	1597.8	1592.4	1586.2	1579.1	1575.6	1572.0	1562.3	1557.8	1552.5	1551.6
25°	1569.4	1566.7	1561.4	1554.3	1550.7	1540.9	1537.4	1530.3	1528.5	1523.2	1522.3
27.5°	1523.2	1519.6	1513.4	1504.5	1498.3	1492.1	1488.5	1483.2	1481.4	1476.1	1475.2
30°	1453.9	1449.4	1437.0	1433.5	1422.8	1416.6	1416.6	1409.5	1410.4	1406.8	1406.8
32.5°	1344.7	1337.6	1327.8	1320.7	1313.6	1310.0	1310.0	1307.3	1309.1	1309.1	1310.9
35°	1199.9	1190.1	1184.8	1180.3	1180.3	1183.9	1194.6	1197.2	1202.6	1207.0	1210.6
37.5°	1014.3	1013.4	1019.6	1024.9	1038.2	1053.3	1072.0	1088.0	1103.1	1113.7	1124.4
40°	813.5	835.8	853.5	878.4	898.8	928.1	961.9	989.4	1015.1	1033.8	1053.3
42.5°	635.0	663.4	700.8	737.2	773.6	813.5	858.0	896.1	929.9	955.6	976.1
45°	494.7	533.8	579.1	625.3	672.3	722.1	768.3	807.3	842.9	869.5	889.9
47.5°	398.8	441.4	492.9	543.5	596.8	649.2	700.8	734.5	763.8	785.1	803.8
50°	329.5	374.8	429.0	486.7	540.0	592.4	636.8	669.7	693.6	712.3	723.8
52.5°	275.3	323.3	381.0	438.7	492.0	540.0	580.0	604.8	624.4	637.7	648.3
55°	227.4	273.6	327.7	381.9	434.3	479.6	512.5	531.1	546.2	554.2	560.4
57.5°	185.6	228.2	278.0	327.7	373.0	410.3	436.1	454.7	461.8	468.1	467.2
60°	145.7	185.6	230.9	273.6	312.6	342.8	361.5	372.1	377.5	380.1	378.3
62.5°	114.6	151.0	185.6	222.9	251.3	277.1	294.9	294.9	297.5	298.4	301.1
65°	85.3	112.8	143.0	170.5	193.6	210.5	220.3	222.9	226.5	225.6	223.8
67.5°	63.1	83.5	105.7	126.1	142.1	152.8	159.9	166.1	165.2	163.4	162.5
70°	43.5	56.8	76.4	88.8	100.4	111.0	112.8	113.7	114.6	115.5	113.7
72.5°	30.2	40.0	50.6	61.3	68.4	72.8	77.3	78.1	78.1	78.1	77.3
75°	15.1	20.4	30.2	34.6	40.9	42.6	46.2	46.2	48.9	45.3	44.4
77.5°	13.3	16.0	21.3	24.9	27.5	30.2	31.1	33.7	32.9	31.1	32.0
80°	8.0	9.8	13.3	15.1	18.6	19.5	20.4	21.3	20.4	21.3	21.3
82.5°	6.2	7.1	8.9	8.9	11.5	11.5	12.4	12.4	13.3	13.3	13.3
85°	3.5	6.2	5.3	10.6	7.1	7.1	8.9	10.6	8.9	8.9	10.6
87.5°	3.5	3.5	2.7	3.5	3.5	3.5	4.4	5.3	5.3	6.2	5.3
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: P244605

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1654.6	1654.6	1654.6	1654.6
2.5°	1657.3	1659.0	1656.4	1655.5
5°	1659.9	1659.9	1658.2	1658.2
7.5°	1659.9	1659.9	1657.3	1655.5
10°	1652.8	1652.8	1650.2	1648.4
12.5°	1639.5	1639.5	1638.6	1636.0
15°	1622.6	1622.6	1619.1	1616.4
17.5°	1599.5	1601.3	1596.9	1596.9
20°	1574.7	1573.8	1570.3	1568.5
22.5°	1548.9	1547.2	1546.3	1540.9
25°	1521.4	1519.6	1516.9	1514.3
27.5°	1474.3	1473.4	1470.8	1467.2
30°	1402.4	1401.5	1397.9	1397.9
32.5°	1309.1	1308.2	1304.7	1305.6
35°	1212.3	1215.9	1214.1	1210.6
37.5°	1131.5	1134.2	1135.9	1134.2
40°	1064.0	1072.0	1072.9	1074.7
42.5°	992.1	1002.7	1006.3	1008.0
45°	905.9	915.7	923.7	921.9
47.5°	818.0	825.1	832.2	826.9
50°	733.6	738.0	740.7	740.7
52.5°	653.7	653.7	652.8	653.7
55°	562.2	562.2	558.7	560.4
57.5°	466.3	468.1	465.4	460.9
60°	377.5	373.0	371.2	368.6
62.5°	294.0	294.0	287.8	295.7
65°	220.3	217.6	214.9	214.0
67.5°	159.9	159.0	156.3	155.4
70°	112.8	109.2	108.4	106.6
72.5°	75.5	75.5	73.7	73.7
75°	46.2	41.7	40.9	41.7
77.5°	32.0	31.1	31.1	30.2
80°	21.3	20.4	22.2	19.5
82.5°	13.3	14.2	13.3	14.2
85°	8.9	10.6	9.8	9.8
87.5°	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)