

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: P244161

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244161  
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 EC8B30827 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3049.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

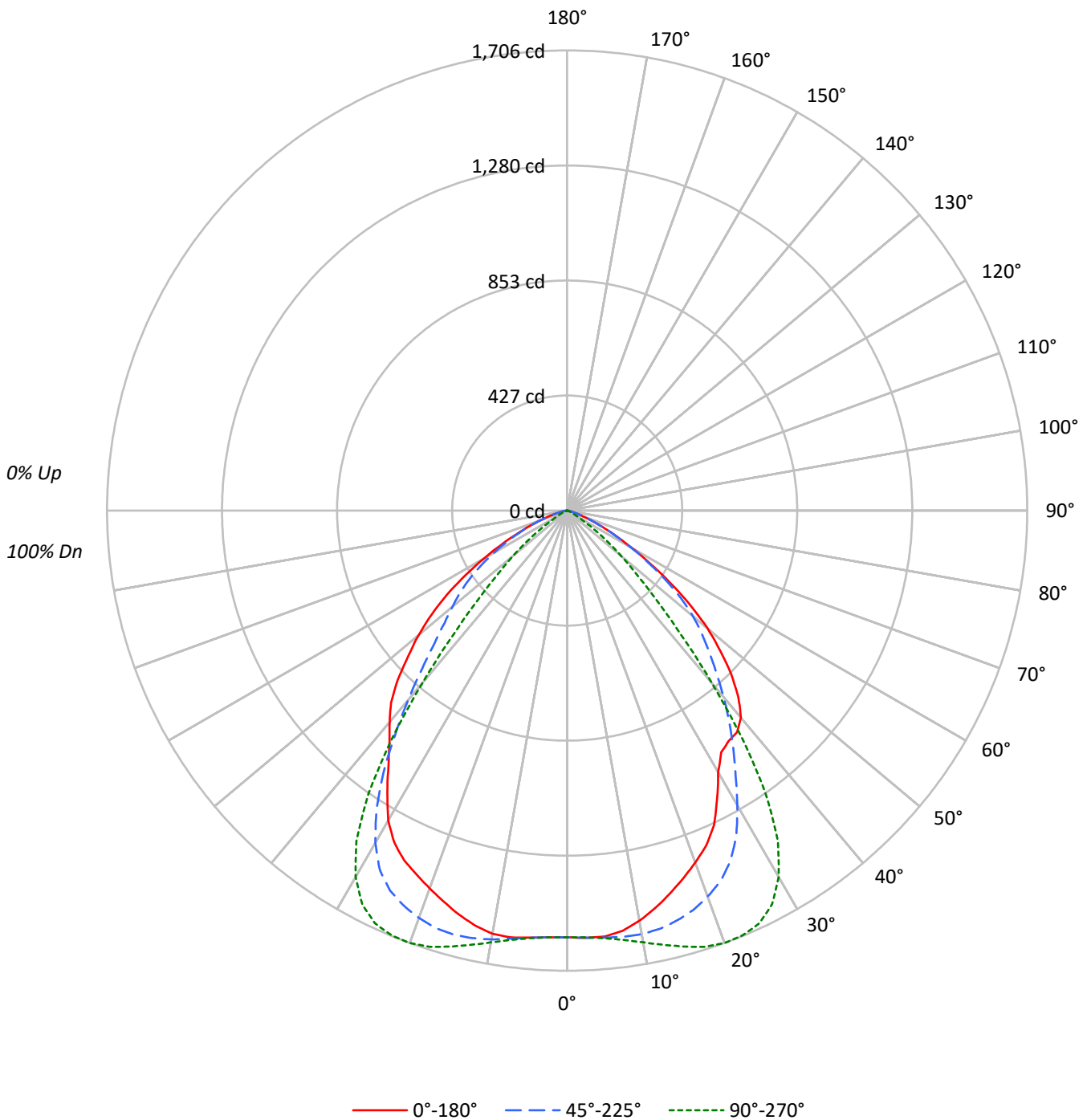
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

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

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

	0°	90°	180°
0°	48774	48774	48774
5°	49065	49248	49195
10°	48343	50895	49896
15°	46932	53415	49505
20°	45567	55983	48901
25°	43820	57416	48675
30°	39880	55842	47232
35°	39285	48388	43456
40°	40351	33560	41196
45°	37565	20283	38738
50°	32583	12526	34516
55°	25004	6543	29295
60°	17034	2640	22110
65°	10595	1350	15250
70°	5752	829	9313
75°	3002	393	5504
80°	1350	444	2983
85°	885	283	2689



TEST NUMBER: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	5.0
10°-20°	450.6	14.8
20°-30°	687.5	22.5
30°-40°	717.4	23.5
40°-50°	538.8	17.7
50°-60°	331.5	10.9
60°-70°	134.9	4.4
70°-80°	31.8	1.0
80°-90°	4.4	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°	1290.2	42.3
0°-40°	2007.5	65.8
0°-60°	2877.9	94.4
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1582	1582	1582	1582	1582	
5°	1585	1589	1591	1589	1589	150
15°	1470	1573	1673	1627	1551	414
25°	1288	1432	1688	1554	1431	585
35°	1044	1073	1285	1188	1154	659
45°	861	746	465	694	888	657
55°	465	442	122	442	545	418
65°	145	147	18	197	209	151
75°	25	25	3	44	46	30
85°	2	2	1	6	8	4
90°	0	0	0	0	0	



TEST NUMBER: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7
2.5°	1585.9	1583.4	1585.9	1585.9	1586.8	1585.1	1585.9	1586.8	1585.1	1585.1	1585.1
5°	1585.1	1583.4	1585.1	1584.2	1585.9	1585.9	1587.6	1587.6	1589.3	1589.3	1591.8
7.5°	1571.6	1568.3	1571.6	1574.2	1575.8	1579.2	1583.4	1586.8	1590.1	1593.5	1597.7
10°	1543.9	1543.9	1546.5	1551.5	1556.5	1562.4	1570.0	1578.4	1586.8	1594.3	1601.9
12.5°	1509.5	1507.0	1512.0	1518.8	1526.3	1535.6	1547.3	1559.9	1573.3	1588.4	1600.2
15°	1470.1	1467.5	1473.4	1480.1	1489.4	1502.8	1517.1	1533.9	1553.2	1573.3	1592.6
17.5°	1429.8	1428.9	1434.8	1444.0	1451.6	1465.9	1484.3	1504.5	1526.3	1553.2	1578.4
20°	1388.6	1387.8	1393.7	1401.2	1411.3	1424.7	1443.2	1466.7	1492.7	1523.0	1552.3
22.5°	1345.8	1346.6	1351.7	1360.1	1368.5	1382.7	1402.0	1425.6	1454.1	1486.8	1519.6
25°	1287.9	1283.7	1290.4	1298.8	1313.1	1324.8	1343.3	1368.5	1397.9	1432.3	1470.9
27.5°	1203.9	1203.1	1209.0	1216.5	1229.1	1243.4	1263.5	1289.6	1320.6	1358.4	1396.2
30°	1120.0	1121.6	1124.2	1131.7	1140.1	1154.4	1174.5	1196.4	1225.8	1261.8	1302.2
32.5°	1062.9	1062.9	1066.2	1071.3	1077.1	1084.7	1099.0	1114.9	1137.6	1162.8	1192.2
35°	1043.6	1040.2	1043.6	1044.4	1045.2	1046.9	1049.4	1054.5	1062.0	1073.0	1083.9
37.5°	1035.2	1032.7	1032.7	1029.3	1025.1	1020.1	1013.3	1005.8	997.4	986.5	978.1
40°	1002.4	1000.8	999.1	995.7	986.5	976.4	965.5	947.9	928.5	901.7	874.8
42.5°	939.5	937.8	936.9	930.2	921.8	910.1	897.5	879.0	854.7	820.2	781.6
45°	861.4	858.0	855.5	849.6	843.7	833.7	821.9	805.1	780.8	745.5	699.3
47.5°	770.7	769.0	768.2	765.7	759.8	753.9	746.4	732.9	711.1	677.5	629.7
50°	679.2	675.8	677.5	676.7	674.2	670.0	664.9	655.7	638.9	608.7	565.0
52.5°	574.2	574.2	573.4	575.9	576.8	575.9	576.8	566.7	552.4	529.8	492.8
55°	465.1	465.1	467.6	471.0	474.3	475.2	474.3	470.2	460.1	441.6	408.9
57.5°	362.7	361.0	366.0	371.1	374.4	377.8	375.3	371.9	366.0	350.9	325.7
60°	276.2	276.2	279.6	282.9	286.3	289.6	288.8	288.0	282.9	272.8	252.7
62.5°	203.2	204.0	204.0	206.5	209.9	213.3	215.8	213.3	210.7	204.0	190.6
65°	145.2	144.4	145.2	147.8	150.3	153.6	155.3	154.5	152.0	146.9	136.9
67.5°	97.4	96.5	99.9	100.7	102.4	105.8	105.0	105.8	105.0	100.7	92.4
70°	63.8	62.1	63.8	63.0	65.5	66.3	68.0	68.8	68.0	65.5	63.0
72.5°	39.5	38.6	39.5	40.3	41.1	42.0	43.7	43.7	42.8	41.1	37.8
75°	25.2	22.7	23.5	21.8	23.5	23.5	25.2	26.0	25.2	25.2	23.5
77.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	16.0	16.8	15.1	14.3
80°	7.6	7.6	8.4	8.4	8.4	9.2	8.4	8.4	8.4	9.2	6.7
82.5°	5.9	5.0	5.0	5.0	5.9	5.0	5.0	5.0	5.0	5.0	5.0
85°	2.5	3.3	2.5	1.7	2.5	2.5	3.3	2.5	2.5	2.5	3.3
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	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



TEST NUMBER: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7
2.5°	1585.9	1584.2	1584.2	1583.4	1585.1	1583.4	1584.2	1583.4	1583.4	1583.4	1583.4
5°	1591.8	1592.6	1591.0	1590.1	1592.6	1592.6	1592.6	1591.0	1591.0	1591.0	1591.0
7.5°	1600.2	1601.9	1602.7	1603.6	1605.2	1606.1	1606.1	1605.2	1604.4	1606.9	1603.6
10°	1609.4	1612.0	1617.0	1619.5	1623.7	1623.7	1625.4	1625.4	1623.7	1625.4	1624.5
12.5°	1606.1	1621.2	1629.6	1635.5	1641.3	1646.4	1648.0	1648.9	1648.0	1651.4	1648.0
15°	1612.0	1624.5	1638.0	1648.0	1659.0	1664.8	1666.5	1673.2	1674.9	1675.8	1670.7
17.5°	1602.7	1625.4	1639.6	1654.8	1670.7	1681.6	1691.7	1695.9	1696.8	1698.4	1691.7
20°	1581.7	1606.9	1628.7	1650.6	1669.0	1685.8	1694.2	1706.0	1702.6	1709.3	1700.1
22.5°	1553.2	1581.7	1609.4	1638.0	1657.3	1677.4	1695.1	1703.4	1707.7	1707.7	1697.6
25°	1507.8	1541.4	1571.6	1601.0	1630.4	1654.8	1674.9	1687.5	1690.0	1689.2	1677.4
27.5°	1437.3	1473.4	1508.7	1542.3	1578.4	1606.9	1630.4	1645.5	1649.7	1649.7	1637.1
30°	1339.9	1378.5	1413.0	1453.3	1490.2	1522.1	1554.9	1568.3	1575.8	1575.8	1561.6
32.5°	1224.1	1256.8	1288.7	1328.2	1368.5	1404.6	1435.6	1454.1	1463.3	1462.5	1449.9
35°	1098.1	1114.1	1138.4	1167.8	1203.9	1237.5	1267.7	1285.4	1301.3	1300.5	1288.7
37.5°	972.2	968.0	970.5	981.4	1004.1	1027.6	1051.1	1067.9	1081.3	1087.2	1084.7
40°	848.8	827.0	806.0	798.4	800.1	808.5	821.1	833.7	848.8	856.4	859.7
42.5°	738.0	701.0	664.1	636.4	620.4	615.4	621.3	625.5	634.7	645.6	656.5
45°	649.0	599.5	550.7	507.9	481.1	465.1	461.8	465.1	470.2	481.1	495.3
47.5°	575.9	518.0	463.4	415.6	376.1	355.1	349.3	347.6	352.6	362.7	382.0
50°	511.3	453.4	392.9	337.5	296.4	272.8	264.5	261.1	267.0	274.5	292.2
52.5°	440.8	383.7	321.6	267.8	225.0	200.7	191.4	186.4	189.7	199.8	217.4
55°	364.4	311.5	255.2	199.8	158.7	136.0	125.1	121.7	125.1	136.0	153.6
57.5°	288.0	243.5	196.4	144.4	107.5	84.8	73.9	70.5	79.8	84.0	102.4
60°	225.0	188.9	148.6	105.8	73.9	56.2	45.3	42.8	47.0	54.6	69.7
62.5°	168.8	146.1	114.2	75.6	54.6	36.1	30.2	27.7	30.2	36.1	47.9
65°	122.6	105.0	79.8	55.4	36.9	26.9	20.2	18.5	21.0	25.2	35.3
67.5°	84.0	70.5	55.4	38.6	25.2	16.8	14.3	14.3	15.1	18.5	26.0
70°	54.6	46.2	35.3	25.2	16.8	12.6	10.9	9.2	10.9	13.4	17.6
72.5°	34.4	29.4	22.7	17.6	12.6	9.2	7.6	6.7	8.4	10.1	13.4
75°	21.0	16.0	11.8	9.2	6.7	6.7	6.7	3.3	4.2	6.7	8.4
77.5°	12.6	10.9	9.2	7.6	5.9	3.3	3.3	3.3	4.2	5.0	7.6
80°	6.7	5.9	4.2	4.2	3.3	2.5	3.3	2.5	1.7	4.2	5.0
82.5°	4.2	3.3	3.3	3.3	4.2	1.7	2.5	1.7	2.5	3.3	2.5
85°	2.5	2.5	2.5	1.7	4.2	1.7	1.7	0.8	0.8	1.7	1.7
87.5°	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7	1581.7
2.5°	1584.2	1583.4	1584.2	1583.4	1583.4	1583.4	1584.2	1584.2	1583.4	1583.4	1585.1
5°	1591.0	1591.0	1591.0	1590.1	1589.3	1589.3	1591.0	1591.0	1588.4	1591.0	1591.0
7.5°	1605.2	1602.7	1605.2	1601.9	1600.2	1601.0	1601.9	1600.2	1598.5	1599.4	1599.4
10°	1623.7	1621.2	1621.2	1618.7	1616.1	1614.5	1612.8	1608.6	1604.4	1603.6	1600.2
12.5°	1645.5	1641.3	1638.8	1633.8	1629.6	1623.7	1618.7	1612.0	1603.6	1597.7	1591.8
15°	1667.4	1660.6	1654.8	1646.4	1637.1	1627.1	1616.1	1605.2	1591.8	1580.0	1570.0
17.5°	1685.0	1675.8	1664.8	1651.4	1638.0	1622.9	1606.9	1591.0	1571.6	1556.5	1544.8
20°	1690.9	1677.4	1663.2	1645.5	1627.9	1606.9	1586.8	1565.8	1543.9	1528.0	1514.6
22.5°	1683.3	1667.4	1649.7	1631.3	1607.7	1585.1	1561.6	1537.2	1517.9	1496.1	1483.5
25°	1662.3	1643.0	1623.7	1601.9	1579.2	1554.0	1528.8	1503.7	1480.1	1468.4	1452.4
27.5°	1619.5	1598.5	1577.5	1554.9	1528.8	1503.7	1477.6	1453.3	1433.1	1417.2	1407.9
30°	1543.9	1519.6	1495.2	1470.9	1448.2	1422.2	1397.9	1377.7	1357.6	1345.0	1335.7
32.5°	1428.1	1406.3	1381.9	1358.4	1337.4	1315.6	1295.4	1277.8	1263.5	1255.1	1248.4
35°	1271.9	1250.1	1231.6	1214.8	1197.2	1188.0	1175.4	1165.3	1159.4	1156.1	1155.2
37.5°	1075.5	1062.9	1057.0	1053.6	1050.3	1047.8	1049.4	1053.6	1057.0	1062.9	1069.6
40°	865.6	876.5	879.9	891.6	902.5	916.8	932.8	951.2	966.3	985.6	999.1
42.5°	674.2	694.3	717.8	743.0	769.9	795.9	827.8	857.2	884.0	908.4	929.4
45°	518.0	549.1	584.3	620.4	656.5	694.3	732.9	769.0	800.9	827.0	848.8
47.5°	403.8	438.3	483.6	528.1	571.7	616.2	659.0	696.8	723.7	748.9	768.2
50°	319.9	359.3	408.9	460.1	507.9	554.9	600.3	635.5	662.4	682.6	696.8
52.5°	247.7	294.7	345.1	398.8	450.0	501.2	543.2	575.9	597.8	615.4	626.3
55°	184.7	230.9	284.6	340.0	392.1	441.6	481.1	509.6	528.9	539.0	544.9
57.5°	133.5	175.5	229.2	284.6	331.6	378.6	410.5	436.6	447.5	453.4	455.9
60°	97.4	136.0	183.9	231.7	276.2	314.0	341.7	359.3	367.7	371.1	370.2
62.5°	71.4	105.0	146.1	186.4	222.5	253.5	275.4	287.1	291.3	293.0	290.5
65°	54.6	80.6	115.9	146.9	174.6	197.3	213.3	220.8	223.3	222.5	220.8
67.5°	40.3	60.5	86.5	110.0	130.1	147.8	156.2	162.9	164.5	162.0	159.5
70°	28.6	44.5	63.0	78.9	94.0	104.1	113.3	114.2	114.2	113.3	111.7
72.5°	20.2	31.1	42.8	53.7	63.0	70.5	73.9	76.4	75.6	74.7	73.0
75°	13.4	19.3	31.1	33.6	42.0	44.5	47.9	47.9	48.7	46.2	46.2
77.5°	8.4	13.4	18.5	21.8	25.2	28.6	30.2	30.2	31.1	30.2	30.2
80°	5.0	8.4	10.1	15.1	15.1	17.6	18.5	19.3	17.6	20.2	17.6
82.5°	3.3	5.0	7.6	7.6	9.2	10.9	10.9	11.8	11.8	10.9	10.9
85°	2.5	3.3	4.2	5.0	5.0	5.9	5.0	5.0	5.9	6.7	5.9
87.5°	0.8	1.7	0.8	1.7	1.7	3.3	2.5	2.5	2.5	3.3	3.3
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: P244161

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1581.7	1581.7	1581.7	1581.7
2.5°	1583.4	1584.2	1583.4	1583.4
5°	1591.0	1590.1	1591.0	1589.3
7.5°	1596.8	1596.8	1596.0	1596.0
10°	1596.8	1593.5	1593.5	1593.5
12.5°	1584.2	1580.0	1577.5	1575.8
15°	1562.4	1554.9	1551.5	1550.7
17.5°	1533.9	1527.2	1523.0	1520.4
20°	1501.1	1494.4	1489.4	1490.2
22.5°	1472.6	1465.0	1461.7	1460.0
25°	1444.0	1434.8	1432.3	1430.6
27.5°	1397.9	1392.8	1390.3	1387.8
30°	1327.3	1324.8	1320.6	1326.5
32.5°	1245.9	1241.7	1238.3	1240.9
35°	1156.1	1153.5	1156.1	1154.4
37.5°	1073.8	1076.3	1079.7	1081.3
40°	1009.2	1018.4	1021.7	1023.4
42.5°	944.5	955.4	962.1	966.3
45°	864.7	875.6	883.2	888.3
47.5°	782.5	791.7	799.2	798.4
50°	707.8	712.8	716.1	719.5
52.5°	632.2	632.2	633.0	633.0
55°	546.6	544.9	544.0	544.9
57.5°	452.5	450.8	450.0	447.5
60°	366.9	361.9	358.5	358.5
62.5°	287.1	281.2	278.7	277.9
65°	215.8	214.9	209.9	209.0
67.5°	156.2	152.8	149.4	150.3
70°	110.0	105.0	105.0	103.3
72.5°	71.4	68.8	68.0	68.0
75°	44.5	44.5	42.8	46.2
77.5°	29.4	29.4	28.6	29.4
80°	17.6	17.6	17.6	16.8
82.5°	10.9	11.8	10.9	10.9
85°	5.9	6.7	5.0	7.6
87.5°	3.3	4.2	3.3	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)