

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: P244167

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244167  
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 EC8B30830 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3125.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

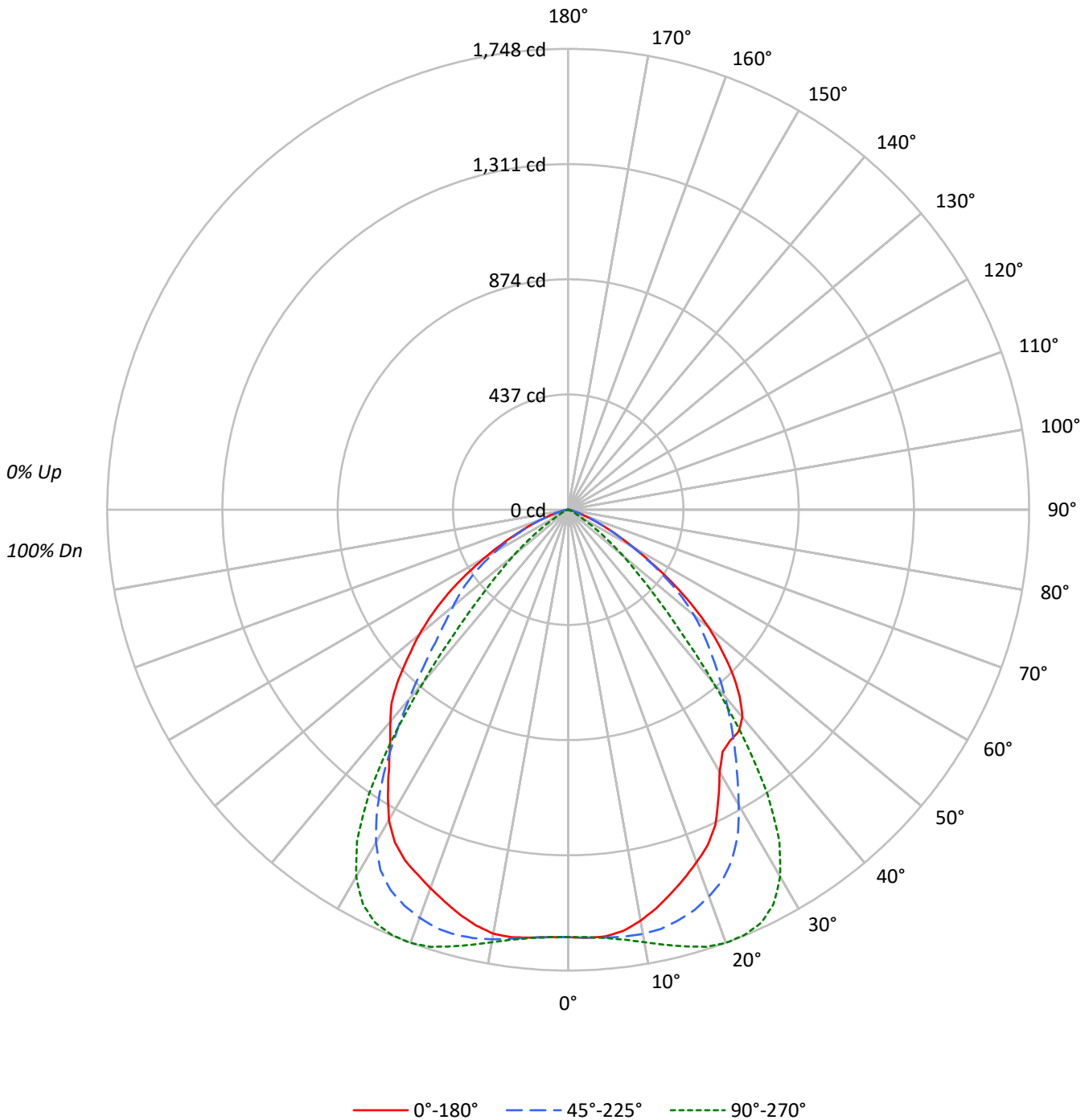
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	49989	49989	49989
5°	50288	50474	50421
10°	49548	52163	51139
15°	48100	54747	50737
20°	46703	57378	50122
25°	44912	58848	49890
30°	40873	57234	48411
35°	40264	49592	44541
40°	41357	34397	42222
45°	38503	20788	39702
50°	33394	12838	35375
55°	25628	6709	30026
60°	17460	2707	22659
65°	10864	1379	15636
70°	5896	857	9539
75°	3074	405	5635
80°	1367	462	3054
85°	920	318	2724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	5.0
10°-20°	461.8	14.8
20°-30°	704.6	22.5
30°-40°	735.2	23.5
40°-50°	552.3	17.7
50°-60°	339.8	10.9
60°-70°	138.3	4.4
70°-80°	32.6	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°	1322.3	42.3
0°-40°	2057.6	65.8
0°-60°	2949.6	94.4
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1621	1621	1621	1621	1621	
5°	1625	1629	1631	1629	1629	154
15°	1507	1612	1715	1668	1589	424
25°	1320	1468	1730	1593	1466	600
35°	1070	1100	1317	1218	1183	675
45°	883	764	477	712	910	674
55°	477	453	125	453	558	429
65°	149	151	19	202	214	155
75°	26	26	3	46	47	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°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1625.5	1622.9	1625.5	1625.5	1626.3	1624.6	1625.5	1626.3	1624.6	1624.6	1624.6
5°	1624.6	1622.9	1624.6	1623.7	1625.5	1625.5	1627.2	1627.2	1628.9	1628.9	1631.5
7.5°	1610.8	1607.4	1610.8	1613.4	1615.1	1618.6	1622.9	1626.3	1629.8	1633.2	1637.5
10°	1582.4	1582.4	1585.0	1590.2	1595.3	1601.3	1609.1	1617.7	1626.3	1634.0	1641.8
12.5°	1547.2	1544.6	1549.7	1556.6	1564.4	1573.8	1585.9	1598.8	1612.5	1628.0	1640.1
15°	1506.7	1504.1	1510.1	1517.0	1526.5	1540.3	1554.9	1572.1	1591.9	1612.5	1632.3
17.5°	1465.4	1464.5	1470.6	1480.0	1487.8	1502.4	1521.3	1542.0	1564.4	1591.9	1617.7
20°	1423.2	1422.4	1428.4	1436.2	1446.5	1460.2	1479.2	1503.3	1529.9	1560.9	1591.0
22.5°	1379.3	1380.2	1385.4	1394.0	1402.6	1417.2	1437.0	1461.1	1490.3	1523.9	1557.5
25°	1320.0	1315.7	1322.6	1331.2	1345.8	1357.8	1376.8	1402.6	1432.7	1468.0	1507.6
27.5°	1233.9	1233.1	1239.1	1246.8	1259.7	1274.4	1295.0	1321.7	1353.5	1392.3	1431.0
30°	1147.9	1149.6	1152.2	1159.9	1168.5	1183.2	1203.8	1226.2	1256.3	1293.3	1334.6
32.5°	1089.4	1089.4	1092.8	1098.0	1104.0	1111.7	1126.4	1142.7	1166.0	1191.8	1221.9
35°	1069.6	1066.1	1069.6	1070.4	1071.3	1073.0	1075.6	1080.8	1088.5	1099.7	1110.9
37.5°	1061.0	1058.4	1058.4	1055.0	1050.6	1045.5	1038.6	1030.9	1022.3	1011.1	1002.5
40°	1027.4	1025.7	1024.0	1020.5	1011.1	1000.7	989.5	971.5	951.7	924.1	896.6
42.5°	962.9	961.2	960.3	953.4	944.8	932.8	919.9	900.9	876.0	840.7	801.1
45°	882.9	879.4	876.8	870.8	864.8	854.5	842.4	825.2	800.2	764.1	716.8
47.5°	789.9	788.2	787.3	784.8	778.7	772.7	765.0	751.2	728.8	694.4	645.4
50°	696.1	692.7	694.4	693.6	691.0	686.7	681.5	672.0	654.8	623.8	579.1
52.5°	588.6	588.6	587.7	590.3	591.1	590.3	591.1	580.8	566.2	543.0	505.1
55°	476.7	476.7	479.3	482.7	486.2	487.0	486.2	481.9	471.5	452.6	419.0
57.5°	371.7	370.0	375.2	380.3	383.8	387.2	384.6	381.2	375.2	359.7	333.9
60°	283.1	283.1	286.5	290.0	293.4	296.9	296.0	295.1	290.0	279.6	259.0
62.5°	208.2	209.1	209.1	211.7	215.1	218.6	221.1	218.6	216.0	209.1	195.3
65°	148.9	148.0	148.9	151.4	154.0	157.5	159.2	158.3	155.7	150.6	140.3
67.5°	99.8	99.0	102.4	103.3	105.0	108.4	107.6	108.4	107.6	103.3	94.7
70°	65.4	63.7	65.4	64.5	67.1	68.0	69.7	70.6	69.7	67.1	64.5
72.5°	40.4	39.6	40.4	41.3	42.2	43.0	44.7	44.7	43.9	42.2	38.7
75°	25.8	23.2	24.1	22.4	24.1	24.1	25.8	26.7	25.8	25.8	24.1
77.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.4	17.2	15.5	14.6
80°	7.7	7.7	8.6	8.6	8.6	9.5	8.6	8.6	8.6	9.5	6.9
82.5°	6.0	5.2	5.2	5.2	6.0	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.6	3.4	2.6	1.7	2.6	2.6	3.4	2.6	2.6	2.6	3.4
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°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1625.5	1623.7	1623.7	1622.9	1624.6	1622.9	1623.7	1622.9	1622.9	1624.6	1622.9
5°	1631.5	1632.3	1630.6	1629.8	1632.3	1632.3	1632.3	1630.6	1630.6	1631.5	1630.6
7.5°	1640.1	1641.8	1642.7	1643.5	1645.2	1646.1	1646.1	1645.2	1644.4	1647.0	1643.5
10°	1649.5	1652.1	1657.3	1659.9	1664.2	1664.2	1665.9	1665.9	1664.2	1665.9	1665.0
12.5°	1646.1	1661.6	1670.2	1676.2	1682.2	1687.4	1689.1	1690.0	1689.1	1692.6	1689.1
15°	1652.1	1665.0	1678.8	1689.1	1700.3	1706.3	1708.1	1714.9	1716.7	1717.5	1712.4
17.5°	1642.7	1665.9	1680.5	1696.0	1712.4	1723.5	1733.9	1738.2	1739.0	1740.8	1733.9
20°	1621.1	1647.0	1669.3	1691.7	1710.6	1727.8	1736.5	1748.5	1745.1	1752.0	1742.5
22.5°	1591.9	1621.1	1649.5	1678.8	1698.6	1719.3	1737.3	1745.9	1750.2	1750.2	1739.9
25°	1545.4	1579.9	1610.8	1640.9	1671.1	1696.0	1716.7	1729.6	1732.2	1731.3	1719.3
27.5°	1473.1	1510.1	1546.3	1580.7	1617.7	1647.0	1671.1	1686.5	1690.9	1690.9	1677.9
30°	1373.3	1412.9	1448.2	1489.5	1527.4	1560.1	1593.6	1607.4	1615.1	1615.1	1600.5
32.5°	1254.6	1288.1	1320.8	1361.3	1402.6	1439.6	1471.4	1490.3	1499.8	1499.0	1486.1
35°	1125.5	1141.9	1166.8	1196.9	1233.9	1268.3	1299.3	1317.4	1333.7	1332.9	1320.8
37.5°	996.4	992.1	994.7	1005.9	1029.1	1053.2	1077.3	1094.5	1108.3	1114.3	1111.7
40°	870.0	847.6	826.1	818.3	820.0	828.6	841.6	854.5	870.0	877.7	881.1
42.5°	756.4	718.5	680.6	652.2	635.9	630.7	636.8	641.0	650.5	661.7	672.9
45°	665.2	614.4	564.5	520.6	493.1	476.7	473.3	476.7	481.9	493.1	507.7
47.5°	590.3	530.9	475.0	425.9	385.5	364.0	358.0	356.2	361.4	371.7	391.5
50°	524.0	464.7	402.7	345.9	303.8	279.6	271.1	267.6	273.6	281.4	299.4
52.5°	451.7	393.2	329.6	274.5	230.6	205.7	196.2	191.0	194.5	204.8	222.9
55°	373.4	319.2	261.6	204.8	162.6	139.4	128.2	124.8	128.2	139.4	157.5
57.5°	295.1	249.5	201.3	148.0	110.1	86.9	75.7	72.3	81.8	86.0	105.0
60°	230.6	193.6	152.3	108.4	75.7	57.6	46.5	43.9	48.2	55.9	71.4
62.5°	173.0	149.7	117.0	77.4	55.9	37.0	31.0	28.4	31.0	37.0	49.1
65°	125.6	107.6	81.8	56.8	37.9	27.5	20.7	18.9	21.5	25.8	36.2
67.5°	86.0	72.3	56.8	39.6	25.8	17.2	14.6	14.6	15.5	18.9	26.7
70°	55.9	47.3	36.2	25.8	17.2	12.9	11.2	9.5	11.2	13.8	18.1
72.5°	35.3	30.1	23.2	18.1	12.9	9.5	7.7	6.9	8.6	10.3	13.8
75°	21.5	16.4	12.0	9.5	6.9	6.9	6.9	3.4	4.3	6.9	8.6
77.5°	12.9	11.2	9.5	7.7	6.0	3.4	3.4	3.4	4.3	5.2	7.7
80°	6.9	6.0	4.3	4.3	3.4	2.6	3.4	2.6	1.7	4.3	5.2
82.5°	4.3	3.4	3.4	3.4	4.3	1.7	2.6	1.7	2.6	3.4	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°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1623.7	1622.9	1623.7	1622.9	1622.9	1622.9	1623.7	1623.7	1622.9	1622.9	1624.6
5°	1630.6	1630.6	1630.6	1629.8	1628.9	1628.9	1630.6	1630.6	1628.0	1630.6	1630.6
7.5°	1645.2	1642.7	1645.2	1641.8	1640.1	1640.9	1641.8	1640.1	1638.4	1639.2	1639.2
10°	1664.2	1661.6	1661.6	1659.0	1656.4	1654.7	1653.0	1648.7	1644.4	1643.5	1640.1
12.5°	1686.5	1682.2	1679.7	1674.5	1670.2	1664.2	1659.0	1652.1	1643.5	1637.5	1631.5
15°	1708.9	1702.0	1696.0	1687.4	1677.9	1667.6	1656.4	1645.2	1631.5	1619.4	1609.1
17.5°	1727.0	1717.5	1706.3	1692.6	1678.8	1663.3	1647.0	1630.6	1610.8	1595.3	1583.3
20°	1733.0	1719.3	1704.6	1686.5	1668.5	1647.0	1626.3	1604.8	1582.4	1566.1	1552.3
22.5°	1725.3	1708.9	1690.9	1671.9	1647.8	1624.6	1600.5	1575.5	1555.7	1533.4	1520.5
25°	1703.8	1684.0	1664.2	1641.8	1618.6	1592.8	1566.9	1541.1	1517.0	1505.0	1488.6
27.5°	1659.9	1638.4	1616.8	1593.6	1566.9	1541.1	1514.5	1489.5	1468.9	1452.5	1443.0
30°	1582.4	1557.5	1532.5	1507.6	1484.3	1457.7	1432.7	1412.0	1391.4	1378.5	1369.0
32.5°	1463.7	1441.3	1416.4	1392.3	1370.8	1348.4	1327.7	1309.7	1295.0	1286.4	1279.5
35°	1303.6	1281.3	1262.3	1245.1	1227.0	1217.6	1204.7	1194.3	1188.3	1184.9	1184.0
37.5°	1102.3	1089.4	1083.3	1079.9	1076.5	1073.9	1075.6	1079.9	1083.3	1089.4	1096.2
40°	887.2	898.3	901.8	913.8	925.0	939.6	956.0	974.9	990.4	1010.2	1024.0
42.5°	691.0	711.6	735.7	761.5	789.1	815.7	848.4	878.5	906.1	931.0	952.6
45°	530.9	562.7	598.9	635.9	672.9	711.6	751.2	788.2	820.9	847.6	870.0
47.5°	413.9	449.2	495.6	541.2	586.0	631.6	675.5	714.2	741.7	767.5	787.3
50°	327.8	368.3	419.0	471.5	520.6	568.8	615.2	651.4	678.9	699.6	714.2
52.5°	253.8	302.0	353.7	408.7	461.2	513.7	556.7	590.3	612.7	630.7	641.9
55°	189.3	236.6	291.7	348.5	401.8	452.6	493.1	522.3	542.1	552.4	558.5
57.5°	136.8	179.8	234.9	291.7	339.9	388.1	420.8	447.5	458.6	464.7	467.2
60°	99.8	139.4	188.4	237.5	283.1	321.8	350.2	368.3	376.9	380.3	379.5
62.5°	73.1	107.6	149.7	191.0	228.0	259.9	282.2	294.3	298.6	300.3	297.7
65°	55.9	82.6	118.7	150.6	179.0	202.2	218.6	226.3	228.9	228.0	226.3
67.5°	41.3	62.0	88.6	112.7	133.4	151.4	160.1	166.9	168.6	166.1	163.5
70°	29.3	45.6	64.5	80.9	96.4	106.7	116.2	117.0	117.0	116.2	114.5
72.5°	20.7	31.8	43.9	55.1	64.5	72.3	75.7	78.3	77.4	76.6	74.9
75°	13.8	19.8	31.8	34.4	43.0	45.6	49.1	49.1	49.9	47.3	47.3
77.5°	8.6	13.8	18.9	22.4	25.8	29.3	31.0	31.0	31.8	31.0	31.0
80°	5.2	8.6	10.3	15.5	15.5	18.1	18.9	19.8	18.1	20.7	18.1
82.5°	3.4	5.2	7.7	7.7	9.5	11.2	11.2	12.0	12.0	11.2	11.2
85°	2.6	3.4	4.3	5.2	5.2	6.0	5.2	5.2	6.0	6.9	6.0
87.5°	0.9	1.7	0.9	1.7	1.7	3.4	2.6	2.6	2.6	3.4	3.4
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: P244167

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1621.1	1621.1	1621.1	1621.1
2.5°	1622.9	1623.7	1622.9	1622.9
5°	1630.6	1629.8	1630.6	1628.9
7.5°	1636.6	1636.6	1635.8	1635.8
10°	1636.6	1633.2	1633.2	1633.2
12.5°	1623.7	1619.4	1616.8	1615.1
15°	1601.3	1593.6	1590.2	1589.3
17.5°	1572.1	1565.2	1560.9	1558.3
20°	1538.5	1531.7	1526.5	1527.4
22.5°	1509.3	1501.5	1498.1	1496.4
25°	1480.0	1470.6	1468.0	1466.3
27.5°	1432.7	1427.5	1425.0	1422.4
30°	1360.4	1357.8	1353.5	1359.6
32.5°	1277.0	1272.6	1269.2	1271.8
35°	1184.9	1182.3	1184.9	1183.2
37.5°	1100.6	1103.1	1106.6	1108.3
40°	1034.3	1043.8	1047.2	1048.9
42.5°	968.0	979.2	986.1	990.4
45°	886.3	897.5	905.2	910.4
47.5°	802.0	811.4	819.2	818.3
50°	725.4	730.6	734.0	737.4
52.5°	647.9	647.9	648.8	648.8
55°	560.2	558.5	557.6	558.5
57.5°	463.8	462.1	461.2	458.6
60°	376.0	370.9	367.4	367.4
62.5°	294.3	288.3	285.7	284.8
65°	221.1	220.3	215.1	214.3
67.5°	160.1	156.6	153.2	154.0
70°	112.7	107.6	107.6	105.8
72.5°	73.1	70.6	69.7	69.7
75°	45.6	45.6	43.9	47.3
77.5°	30.1	30.1	29.3	30.1
80°	18.1	18.1	18.1	17.2
82.5°	11.2	12.0	11.2	11.2
85°	6.0	6.9	5.2	7.7
87.5°	3.4	4.3	3.4	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)