

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: P245463

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245463  
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 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3039.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

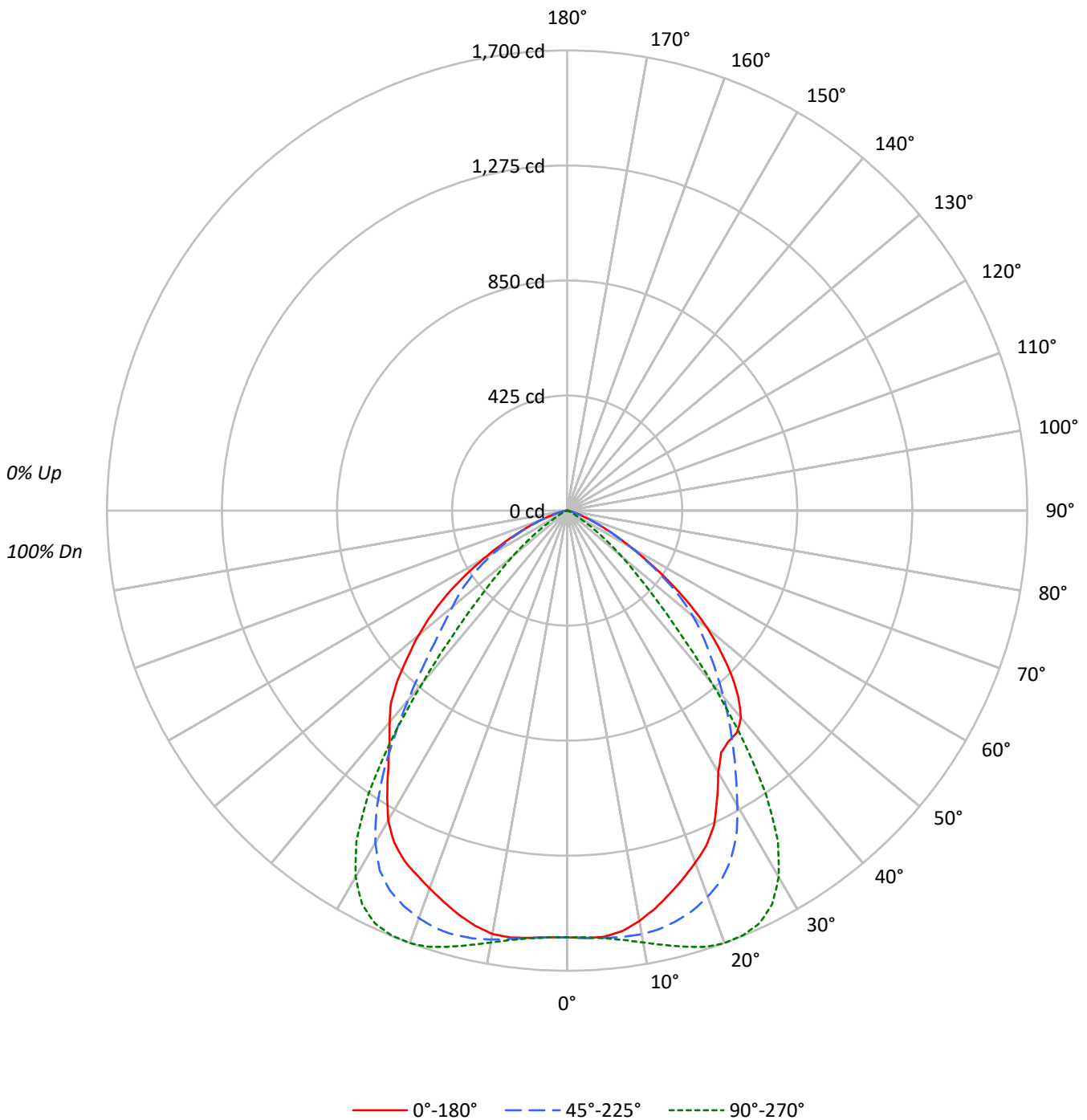
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	48613	48613	48613
5°	48904	49084	49034
10°	48186	50729	49733
15°	46775	53240	49342
20°	45420	55799	48741
25°	43673	57229	48515
30°	39748	55660	47076
35°	39154	48230	43313
40°	40218	33447	41063
45°	37443	20217	38607
50°	32478	12483	34401
55°	24924	6521	29198
60°	16978	2633	22036
65°	10565	1343	15206
70°	5734	829	9277
75°	2990	393	5481
80°	1332	444	2966
85°	885	283	2654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	5.0
10°-20°	449.1	14.8
20°-30°	685.2	22.5
30°-40°	715.0	23.5
40°-50°	537.1	17.7
50°-60°	330.4	10.9
60°-70°	134.5	4.4
70°-80°	31.7	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°	1285.9	42.3
0°-40°	2001.0	65.8
0°-60°	2868.5	94.4
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1576	1576	1576	1576	1576	
5°	1580	1584	1586	1584	1584	149
15°	1465	1568	1668	1622	1546	413
25°	1284	1428	1682	1549	1426	584
35°	1040	1069	1281	1184	1151	657
45°	859	743	464	692	885	655
55°	464	440	121	440	543	417
65°	145	146	18	197	208	151
75°	25	25	3	44	46	30
85°	2	2	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°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1580.7	1578.2	1580.7	1580.7	1581.6	1579.9	1580.7	1581.6	1579.9	1579.9	1579.9
5°	1579.9	1578.2	1579.9	1579.0	1580.7	1580.7	1582.4	1582.4	1584.1	1584.1	1586.6
7.5°	1566.5	1563.2	1566.5	1569.0	1570.7	1574.0	1578.2	1581.6	1584.9	1588.3	1592.4
10°	1538.9	1538.9	1541.4	1546.4	1551.4	1557.3	1564.8	1573.2	1581.6	1589.1	1596.6
12.5°	1504.6	1502.1	1507.1	1513.8	1521.3	1530.5	1542.2	1554.8	1568.2	1583.2	1595.0
15°	1465.2	1462.7	1468.6	1475.3	1484.5	1497.9	1512.1	1528.8	1548.1	1568.2	1587.4
17.5°	1425.1	1424.2	1430.1	1439.3	1446.8	1461.0	1479.5	1499.5	1521.3	1548.1	1573.2
20°	1384.1	1383.2	1389.1	1396.6	1406.7	1420.1	1438.5	1461.9	1487.8	1518.0	1547.2
22.5°	1341.4	1342.2	1347.2	1355.6	1364.0	1378.2	1397.5	1420.9	1449.3	1482.0	1514.6
25°	1283.6	1279.5	1286.2	1294.5	1308.8	1320.5	1338.9	1364.0	1393.3	1427.6	1466.1
27.5°	1200.0	1199.1	1205.0	1212.5	1225.1	1239.3	1259.4	1285.3	1316.3	1353.9	1391.6
30°	1116.3	1118.0	1120.5	1128.0	1136.4	1150.6	1170.7	1192.5	1221.7	1257.7	1297.9
32.5°	1059.4	1059.4	1062.7	1067.8	1073.6	1081.1	1095.4	1111.3	1133.9	1159.0	1188.3
35°	1040.1	1036.8	1040.1	1041.0	1041.8	1043.5	1046.0	1051.0	1058.5	1069.4	1080.3
37.5°	1031.8	1029.3	1029.3	1025.9	1021.7	1016.7	1010.0	1002.5	994.1	983.2	974.9
40°	999.1	997.5	995.8	992.5	983.2	973.2	962.3	944.7	925.5	898.7	872.0
42.5°	936.4	934.7	933.9	927.2	918.8	907.1	894.5	876.1	851.9	817.6	779.1
45°	858.6	855.2	852.7	846.9	841.0	830.9	819.2	802.5	778.2	743.1	697.1
47.5°	768.2	766.5	765.7	763.2	757.3	751.4	743.9	730.5	708.8	675.3	627.6
50°	677.0	673.6	675.3	674.5	672.0	667.8	662.7	653.5	636.8	606.7	563.2
52.5°	572.4	572.4	571.5	574.0	574.9	574.0	574.9	564.8	550.6	528.0	491.2
55°	463.6	463.6	466.1	469.5	472.8	473.6	472.8	468.6	458.6	440.2	407.5
57.5°	361.5	359.8	364.8	369.9	373.2	376.6	374.0	370.7	364.8	349.8	324.7
60°	275.3	275.3	278.6	282.0	285.3	288.7	287.9	287.0	282.0	272.0	251.9
62.5°	202.5	203.3	203.3	205.9	209.2	212.6	215.1	212.6	210.0	203.3	189.9
65°	144.8	143.9	144.8	147.3	149.8	153.1	154.8	154.0	151.5	146.4	136.4
67.5°	97.1	96.2	99.6	100.4	102.1	105.4	104.6	105.4	104.6	100.4	92.1
70°	63.6	61.9	63.6	62.8	65.3	66.1	67.8	68.6	67.8	65.3	62.8
72.5°	39.3	38.5	39.3	40.2	41.0	41.8	43.5	43.5	42.7	41.0	37.7
75°	25.1	22.6	23.4	21.8	23.4	23.4	25.1	25.9	25.1	25.1	23.4
77.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.9	16.7	15.1	14.2
80°	7.5	7.5	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1580.7	1579.0	1579.0	1578.2	1579.9	1578.2	1579.0	1578.2	1578.2	1579.9	1578.2
5°	1586.6	1587.4	1585.7	1584.9	1587.4	1587.4	1587.4	1585.7	1585.7	1586.6	1585.7
7.5°	1595.0	1596.6	1597.5	1598.3	1600.0	1600.8	1600.8	1600.0	1599.1	1601.6	1598.3
10°	1604.1	1606.7	1611.7	1614.2	1618.4	1618.4	1620.1	1620.1	1618.4	1620.1	1619.2
12.5°	1600.8	1615.9	1624.2	1630.1	1635.9	1641.0	1642.6	1643.5	1642.6	1646.0	1642.6
15°	1606.7	1619.2	1632.6	1642.6	1653.5	1659.4	1661.0	1667.7	1669.4	1670.3	1665.2
17.5°	1597.5	1620.1	1634.3	1649.3	1665.2	1676.1	1686.2	1690.3	1691.2	1692.8	1686.2
20°	1576.5	1601.6	1623.4	1645.2	1663.6	1680.3	1688.7	1700.4	1697.0	1703.7	1694.5
22.5°	1548.1	1576.5	1604.1	1632.6	1651.9	1671.9	1689.5	1697.9	1702.1	1702.1	1692.0
25°	1502.9	1536.4	1566.5	1595.8	1625.1	1649.3	1669.4	1682.0	1684.5	1683.7	1671.9
27.5°	1432.6	1468.6	1503.7	1537.2	1573.2	1601.6	1625.1	1640.1	1644.3	1644.3	1631.8
30°	1335.5	1374.0	1408.3	1448.5	1485.3	1517.1	1549.8	1563.2	1570.7	1570.7	1556.5
32.5°	1220.1	1252.7	1284.5	1323.8	1364.0	1400.0	1430.9	1449.3	1458.5	1457.7	1445.2
35°	1094.5	1110.4	1134.7	1164.0	1200.0	1233.4	1263.6	1281.2	1297.0	1296.2	1284.5
37.5°	969.0	964.8	967.3	978.2	1000.8	1024.2	1047.7	1064.4	1077.8	1083.7	1081.1
40°	846.0	824.2	803.3	795.8	797.5	805.8	818.4	830.9	846.0	853.5	856.9
42.5°	735.5	698.7	661.9	634.3	618.4	613.4	619.2	623.4	632.6	643.5	654.4
45°	646.9	597.5	548.9	506.3	479.5	463.6	460.2	463.6	468.6	479.5	493.7
47.5°	574.0	516.3	461.9	414.2	374.9	354.0	348.1	346.4	351.5	361.5	380.7
50°	509.6	451.9	391.6	336.4	295.4	272.0	263.6	260.2	266.1	273.6	291.2
52.5°	439.3	382.4	320.5	266.9	224.3	200.0	190.8	185.8	189.1	199.2	216.7
55°	363.2	310.4	254.4	199.2	158.2	135.6	124.7	121.3	124.7	135.6	153.1
57.5°	287.0	242.7	195.8	143.9	107.1	84.5	73.6	70.3	79.5	83.7	102.1
60°	224.3	188.3	148.1	105.4	73.6	56.1	45.2	42.7	46.9	54.4	69.5
62.5°	168.2	145.6	113.8	75.3	54.4	36.0	30.1	27.6	30.1	36.0	47.7
65°	122.2	104.6	79.5	55.2	36.8	26.8	20.1	18.4	20.9	25.1	35.2
67.5°	83.7	70.3	55.2	38.5	25.1	16.7	14.2	14.2	15.1	18.4	25.9
70°	54.4	46.0	35.2	25.1	16.7	12.6	10.9	9.2	10.9	13.4	17.6
72.5°	34.3	29.3	22.6	17.6	12.6	9.2	7.5	6.7	8.4	10.0	13.4
75°	20.9	15.9	11.7	9.2	6.7	6.7	6.7	3.3	4.2	6.7	8.4
77.5°	12.6	10.9	9.2	7.5	5.9	3.3	3.3	3.3	4.2	5.0	7.5
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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1579.0	1578.2	1579.0	1578.2	1578.2	1578.2	1579.0	1579.0	1578.2	1578.2	1579.9
5°	1585.7	1585.7	1585.7	1584.9	1584.1	1584.1	1585.7	1585.7	1583.2	1585.7	1585.7
7.5°	1600.0	1597.5	1600.0	1596.6	1595.0	1595.8	1596.6	1595.0	1593.3	1594.1	1594.1
10°	1618.4	1615.9	1615.9	1613.4	1610.8	1609.2	1607.5	1603.3	1599.1	1598.3	1595.0
12.5°	1640.1	1635.9	1633.4	1628.4	1624.2	1618.4	1613.4	1606.7	1598.3	1592.4	1586.6
15°	1661.9	1655.2	1649.3	1641.0	1631.8	1621.7	1610.8	1600.0	1586.6	1574.9	1564.8
17.5°	1679.5	1670.3	1659.4	1646.0	1632.6	1617.5	1601.6	1585.7	1566.5	1551.4	1539.7
20°	1685.3	1671.9	1657.7	1640.1	1622.6	1601.6	1581.6	1560.6	1538.9	1523.0	1509.6
22.5°	1677.8	1661.9	1644.3	1625.9	1602.5	1579.9	1556.5	1532.2	1512.9	1491.2	1478.6
25°	1656.9	1637.6	1618.4	1596.6	1574.0	1548.9	1523.8	1498.7	1475.3	1463.6	1447.7
27.5°	1614.2	1593.3	1572.3	1549.8	1523.8	1498.7	1472.8	1448.5	1428.4	1412.5	1403.3
30°	1538.9	1514.6	1490.3	1466.1	1443.5	1417.5	1393.3	1373.2	1353.1	1340.5	1331.4
32.5°	1423.4	1401.6	1377.4	1353.9	1333.0	1311.3	1291.2	1273.6	1259.4	1251.0	1244.3
35°	1267.8	1246.0	1227.6	1210.9	1193.3	1184.1	1171.5	1161.5	1155.6	1152.3	1151.4
37.5°	1071.9	1059.4	1053.5	1050.2	1046.8	1044.3	1046.0	1050.2	1053.5	1059.4	1066.1
40°	862.7	873.6	877.0	888.7	899.6	913.8	929.7	948.1	963.2	982.4	995.8
42.5°	672.0	692.0	715.5	740.6	767.3	793.3	825.1	854.4	881.1	905.4	926.3
45°	516.3	547.3	582.4	618.4	654.4	692.0	730.5	766.5	798.3	824.2	846.0
47.5°	402.5	436.8	482.0	526.4	569.9	614.2	656.9	694.5	721.3	746.4	765.7
50°	318.8	358.2	407.5	458.6	506.3	553.1	598.3	633.5	660.2	680.3	694.5
52.5°	246.8	293.7	343.9	397.5	448.5	499.6	541.4	574.0	595.8	613.4	624.2
55°	184.1	230.1	283.7	338.9	390.8	440.2	479.5	507.9	527.2	537.2	543.1
57.5°	133.0	174.9	228.4	283.7	330.5	377.4	409.2	435.1	446.0	451.9	454.4
60°	97.1	135.6	183.3	231.0	275.3	313.0	340.6	358.2	366.5	369.9	369.0
62.5°	71.1	104.6	145.6	185.8	221.7	252.7	274.5	286.2	290.4	292.0	289.5
65°	54.4	80.3	115.5	146.4	174.1	196.6	212.6	220.1	222.6	221.7	220.1
67.5°	40.2	60.3	86.2	109.6	129.7	147.3	155.7	162.3	164.0	161.5	159.0
70°	28.5	44.3	62.8	78.7	93.7	103.8	113.0	113.8	113.8	113.0	111.3
72.5°	20.1	31.0	42.7	53.6	62.8	70.3	73.6	76.1	75.3	74.5	72.8
75°	13.4	19.2	31.0	33.5	41.8	44.3	47.7	47.7	48.5	46.0	46.0
77.5°	8.4	13.4	18.4	21.8	25.1	28.5	30.1	30.1	31.0	30.1	30.1
80°	5.0	8.4	10.0	15.1	15.1	17.6	18.4	19.2	17.6	20.1	17.6
82.5°	3.3	5.0	7.5	7.5	9.2	10.9	10.9	11.7	11.7	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: P245463

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1576.5	1576.5	1576.5	1576.5
2.5°	1578.2	1579.0	1578.2	1578.2
5°	1585.7	1584.9	1585.7	1584.1
7.5°	1591.6	1591.6	1590.8	1590.8
10°	1591.6	1588.3	1588.3	1588.3
12.5°	1579.0	1574.9	1572.3	1570.7
15°	1557.3	1549.8	1546.4	1545.6
17.5°	1528.8	1522.1	1518.0	1515.4
20°	1496.2	1489.5	1484.5	1485.3
22.5°	1467.7	1460.2	1456.9	1455.2
25°	1439.3	1430.1	1427.6	1425.9
27.5°	1393.3	1388.3	1385.7	1383.2
30°	1323.0	1320.5	1316.3	1322.1
32.5°	1241.8	1237.6	1234.3	1236.8
35°	1152.3	1149.8	1152.3	1150.6
37.5°	1070.3	1072.8	1076.1	1077.8
40°	1005.8	1015.0	1018.4	1020.1
42.5°	941.4	952.3	959.0	963.2
45°	861.9	872.8	880.3	885.3
47.5°	779.9	789.1	796.6	795.8
50°	705.4	710.4	713.8	717.1
52.5°	630.1	630.1	630.9	630.9
55°	544.8	543.1	542.2	543.1
57.5°	451.0	449.4	448.5	446.0
60°	365.7	360.7	357.3	357.3
62.5°	286.2	280.3	277.8	277.0
65°	215.1	214.2	209.2	208.4
67.5°	155.7	152.3	149.0	149.8
70°	109.6	104.6	104.6	102.9
72.5°	71.1	68.6	67.8	67.8
75°	44.3	44.3	42.7	46.0
77.5°	29.3	29.3	28.5	29.3
80°	17.6	17.6	17.6	16.7
82.5°	10.9	11.7	10.9	10.9
85°	5.9	6.7	5.0	7.5
87.5°	3.3	4.2	3.3	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)