

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: P246201

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246201
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 EC8B30850 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

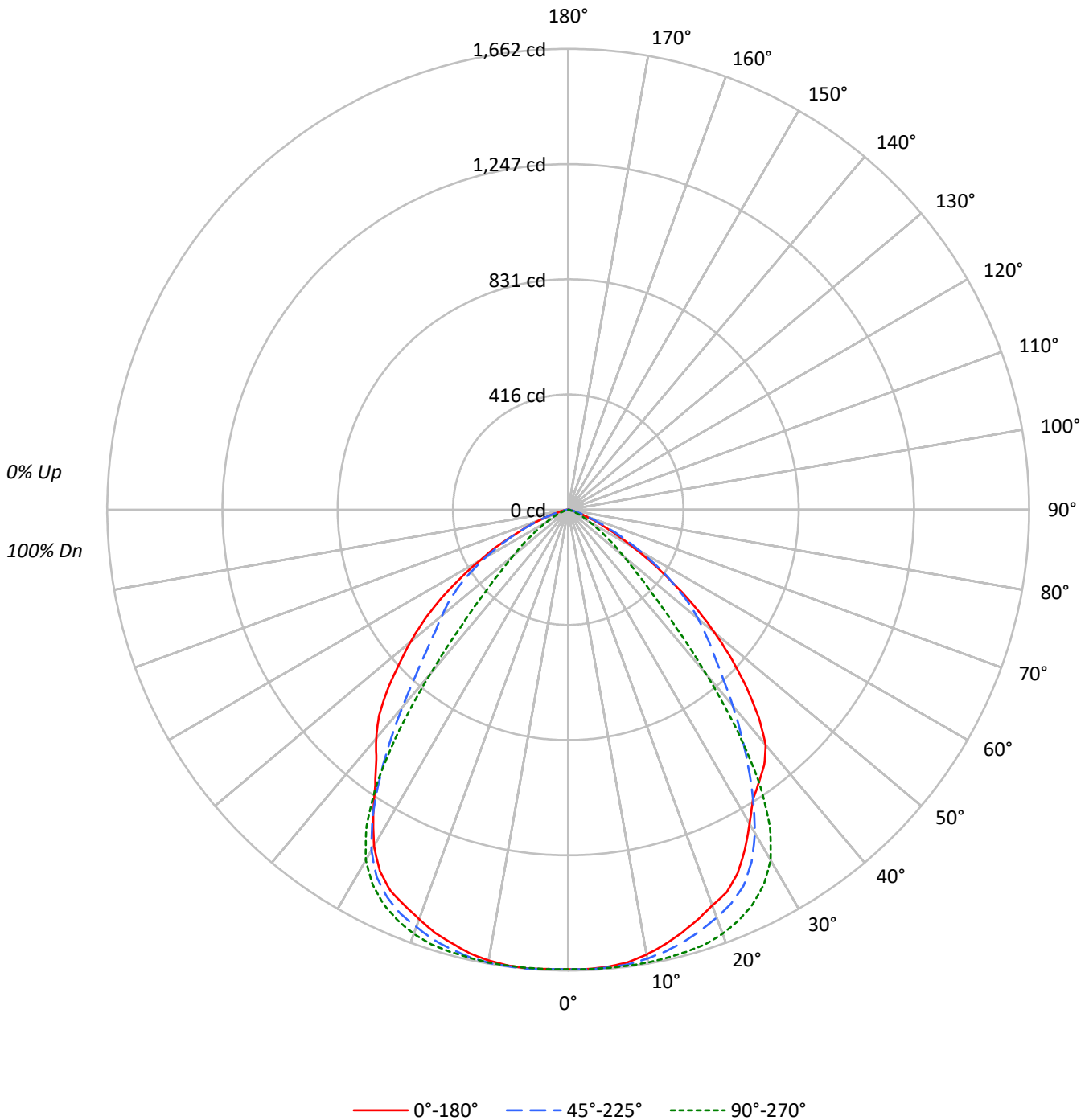
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51105	51105	51105
5°	51217	51353	51409
10°	51001	51918	51696
15°	50437	52678	51685
20°	49830	53420	51553
25°	49182	53482	51604
30°	46531	51979	49857
35°	45139	45173	45644
40°	44581	31080	43329
45°	39724	18660	40269
50°	33029	12420	35591
55°	24773	8559	30176
60°	16787	5705	22770
65°	10128	3699	15644
70°	5617	2002	9620
75°	2550	846	4980
80°	2220	941	3481
85°	2512	1238	3467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	5.0
10°-20°	459.3	14.6
20°-30°	697.2	22.2
30°-40°	732.2	23.3
40°-50°	549.0	17.5
50°-60°	352.2	11.2
60°-70°	150.7	4.8
70°-80°	35.6	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°	1314.6	41.9
0°-40°	2046.9	65.2
0°-60°	2948.1	93.9
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1657	1657	1657	1657	1657	
5°	1655	1657	1659	1662	1661	157
15°	1580	1613	1650	1640	1619	446
25°	1446	1496	1572	1543	1517	660
35°	1199	1132	1200	1186	1212	753
45°	911	745	428	723	923	698
55°	461	461	159	480	561	418
65°	139	164	51	211	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°	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1658.1	1659.9	1659.0	1659.0	1658.1	1659.0	1659.0	1660.8	1660.8	1659.0	1658.1
5°	1654.6	1656.4	1656.4	1654.6	1654.6	1659.0	1656.4	1658.1	1658.1	1657.3	1657.3
7.5°	1646.6	1646.6	1650.1	1647.5	1647.5	1650.1	1649.2	1651.0	1652.8	1653.7	1653.7
10°	1628.8	1630.6	1631.5	1631.5	1632.4	1635.0	1636.8	1640.4	1642.1	1643.9	1644.8
12.5°	1606.6	1609.2	1610.1	1609.2	1611.9	1615.4	1619.9	1624.3	1627.0	1630.6	1633.2
15°	1579.9	1579.9	1581.6	1584.3	1586.1	1591.4	1595.9	1601.2	1608.3	1612.8	1617.2
17.5°	1550.5	1552.3	1555.0	1555.0	1558.5	1567.4	1570.1	1578.1	1586.1	1590.5	1599.4
20°	1518.5	1520.3	1522.9	1524.7	1529.2	1536.3	1541.6	1548.7	1557.6	1565.6	1574.5
22.5°	1493.6	1490.0	1491.8	1493.6	1498.0	1504.3	1510.5	1519.4	1528.3	1536.3	1545.2
25°	1445.5	1446.4	1449.1	1450.9	1456.2	1461.6	1468.7	1479.3	1487.3	1496.2	1506.0
27.5°	1380.6	1381.5	1385.9	1385.9	1390.4	1399.3	1403.7	1412.6	1423.3	1432.2	1443.8
30°	1306.8	1308.5	1308.5	1312.1	1314.8	1319.2	1323.7	1332.6	1337.9	1345.9	1361.9
32.5°	1239.2	1240.9	1240.0	1239.2	1236.5	1235.6	1234.7	1236.5	1238.3	1240.9	1247.2
35°	1199.1	1194.7	1191.1	1184.9	1177.8	1168.9	1160.9	1150.2	1140.4	1132.4	1123.5
37.5°	1160.9	1160.0	1154.7	1145.7	1131.5	1115.5	1096.8	1073.7	1050.6	1025.7	1001.7
40°	1107.5	1104.8	1100.4	1087.9	1071.9	1052.4	1027.4	999.0	961.6	923.4	884.2
42.5°	1016.8	1017.7	1012.3	1002.5	987.4	968.7	942.9	911.8	871.8	826.4	775.7
45°	910.9	910.9	909.1	901.1	890.5	875.3	855.8	830.0	790.8	744.6	690.3
47.5°	800.6	801.5	798.8	797.1	792.6	782.8	768.6	749.0	721.4	676.9	622.7
50°	688.5	688.5	693.0	692.1	692.1	688.5	682.3	670.7	646.7	611.1	560.4
52.5°	576.4	578.2	580.9	584.4	588.9	596.0	588.9	583.6	568.4	540.8	497.3
55°	460.8	462.6	467.0	473.2	478.6	485.7	487.5	487.5	479.5	460.8	427.9
57.5°	362.1	359.4	363.0	368.3	375.4	382.5	387.9	394.1	393.2	380.7	354.0
60°	272.2	273.1	275.8	281.1	286.4	292.7	299.8	305.1	307.8	301.6	284.7
62.5°	198.4	198.4	201.9	207.3	209.9	218.8	223.3	226.0	228.6	227.7	217.1
65°	138.8	140.5	142.3	145.0	147.7	153.0	155.7	161.0	162.8	163.7	155.7
67.5°	97.9	95.2	97.0	98.7	101.4	105.0	110.3	110.3	113.0	113.0	107.6
70°	62.3	62.3	63.2	65.8	67.6	68.5	70.3	72.0	74.7	73.8	73.8
72.5°	41.8	40.9	41.8	42.7	43.6	46.3	46.3	47.1	48.9	49.8	46.3
75°	21.4	22.2	24.0	23.1	25.8	24.0	24.9	27.6	26.7	24.9	24.9
77.5°	17.8	17.8	17.8	16.9	18.7	18.7	17.8	19.6	18.7	18.7	17.8
80°	12.5	13.3	12.5	11.6	12.5	11.6	11.6	11.6	11.6	11.6	10.7
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°	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1659.9	1659.0	1660.8	1659.9	1659.9	1659.0	1659.9	1659.0	1660.8	1657.3	1658.1
5°	1659.9	1658.1	1659.0	1659.9	1660.8	1659.0	1659.0	1659.0	1660.8	1659.0	1659.9
7.5°	1656.4	1655.5	1658.1	1659.9	1659.0	1658.1	1659.9	1659.0	1660.8	1659.9	1661.7
10°	1649.2	1650.1	1651.9	1654.6	1655.5	1656.4	1658.1	1658.1	1660.8	1657.3	1659.0
12.5°	1638.6	1642.1	1646.6	1648.4	1651.9	1651.9	1653.7	1654.6	1656.4	1655.5	1658.1
15°	1625.2	1629.7	1635.0	1639.5	1643.9	1646.6	1649.2	1650.1	1652.8	1650.1	1651.0
17.5°	1609.2	1614.5	1622.6	1627.9	1635.0	1637.7	1641.2	1643.0	1645.7	1643.9	1644.8
20°	1587.0	1593.2	1602.1	1610.1	1614.5	1620.8	1625.2	1627.9	1629.7	1627.9	1628.8
22.5°	1555.8	1564.7	1576.3	1582.5	1591.4	1596.8	1597.7	1603.9	1608.3	1603.9	1605.7
25°	1519.4	1528.3	1537.2	1550.5	1558.5	1564.7	1571.0	1571.9	1576.3	1575.4	1574.5
27.5°	1458.9	1470.5	1485.6	1496.2	1506.9	1516.7	1523.8	1525.6	1530.1	1528.3	1529.2
30°	1376.1	1388.6	1402.9	1419.7	1434.9	1444.6	1453.5	1459.8	1464.2	1461.6	1460.7
32.5°	1258.7	1271.2	1286.3	1303.2	1321.0	1335.2	1345.9	1353.9	1359.3	1357.5	1353.0
35°	1124.4	1128.0	1137.8	1151.1	1166.2	1181.3	1191.1	1200.0	1206.2	1208.0	1208.0
37.5°	986.5	975.0	967.9	967.9	976.7	983.0	991.9	997.2	1007.0	1010.5	1013.2
40°	853.1	826.4	801.5	782.8	770.4	769.5	769.5	772.1	781.0	792.6	803.3
42.5°	733.9	691.2	652.9	618.2	593.3	579.1	572.9	573.8	580.9	591.6	609.3
45°	638.7	585.3	537.3	495.5	461.7	439.4	428.8	427.9	433.2	445.7	465.3
47.5°	564.9	507.9	453.7	405.6	369.2	345.1	332.7	329.1	332.7	344.3	367.4
50°	503.5	444.8	388.7	338.9	299.8	274.9	263.3	258.9	263.3	273.1	296.2
52.5°	446.6	386.1	333.6	285.6	243.7	222.4	209.9	207.3	209.9	221.5	240.2
55°	380.7	329.1	277.5	229.5	193.0	171.7	161.9	159.2	161.9	172.6	192.2
57.5°	315.8	271.3	226.0	182.4	151.2	132.5	123.7	120.1	126.3	133.4	156.6
60°	255.3	219.7	181.5	143.2	117.4	100.5	93.4	92.5	94.3	103.2	119.2
62.5°	200.2	170.8	140.5	109.4	88.1	80.9	72.0	71.2	72.9	78.3	90.7
65°	144.1	125.4	102.3	80.1	63.2	53.4	49.8	50.7	52.5	56.0	67.6
67.5°	100.5	87.2	71.2	56.0	43.6	39.1	35.6	34.7	35.6	41.8	48.0
70°	67.6	59.6	48.0	42.7	30.3	24.0	24.9	22.2	25.8	25.8	31.1
72.5°	44.5	39.1	32.0	24.9	21.4	16.9	16.9	16.0	17.8	18.7	23.1
75°	23.1	17.8	17.8	12.5	8.9	4.4	8.0	7.1	6.2	7.1	8.9
77.5°	16.0	13.3	12.5	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°	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1659.9	1660.8	1660.8	1659.9	1659.9	1658.1	1661.7	1659.0	1659.9	1663.5	1660.8
5°	1661.7	1662.6	1662.6	1661.7	1661.7	1661.7	1662.6	1662.6	1661.7	1660.8	1662.6
7.5°	1665.3	1664.4	1664.4	1662.6	1662.6	1660.8	1662.6	1659.9	1661.7	1659.9	1662.6
10°	1660.8	1661.7	1660.8	1659.9	1659.9	1659.0	1659.0	1656.4	1657.3	1654.6	1656.4
12.5°	1658.1	1657.3	1657.3	1655.5	1653.7	1651.9	1651.0	1648.4	1648.4	1642.1	1644.8
15°	1651.0	1651.9	1649.2	1645.7	1643.9	1639.5	1637.7	1634.1	1630.6	1626.1	1627.0
17.5°	1644.8	1642.1	1638.6	1635.0	1627.9	1624.3	1620.8	1615.4	1613.7	1608.3	1606.6
20°	1626.1	1624.3	1619.9	1613.7	1609.2	1601.2	1597.7	1592.3	1587.9	1582.5	1579.9
22.5°	1602.1	1600.3	1595.0	1588.8	1581.6	1578.1	1574.5	1564.7	1560.3	1555.0	1554.1
25°	1571.9	1569.2	1563.9	1556.7	1553.2	1543.4	1539.8	1532.7	1530.9	1525.6	1524.7
27.5°	1525.6	1522.0	1515.8	1506.9	1500.7	1494.5	1490.9	1485.6	1483.8	1478.4	1477.6
30°	1456.2	1451.8	1439.3	1435.8	1425.1	1418.8	1418.8	1411.7	1412.6	1409.1	1409.1
32.5°	1346.8	1339.7	1329.9	1322.8	1315.7	1312.1	1312.1	1309.4	1311.2	1311.2	1313.0
35°	1201.8	1192.0	1186.7	1182.2	1182.2	1185.8	1196.5	1199.1	1204.5	1208.9	1212.5
37.5°	1015.9	1015.0	1021.2	1026.6	1039.9	1055.0	1073.7	1089.7	1104.8	1115.5	1126.2
40°	814.8	837.1	854.9	879.8	900.2	929.6	963.4	991.0	1016.8	1035.5	1055.0
42.5°	636.0	664.5	701.9	738.3	774.8	814.8	859.3	897.6	931.4	957.2	977.6
45°	495.5	534.6	580.0	626.3	673.4	723.2	769.5	808.6	844.2	870.9	891.3
47.5°	399.4	442.1	493.7	544.4	597.8	650.3	701.9	735.7	765.0	786.4	805.1
50°	330.0	375.4	429.7	487.5	540.8	593.3	637.8	670.7	694.8	713.4	725.0
52.5°	275.8	323.8	381.6	439.4	492.8	540.8	580.9	605.8	625.4	638.7	649.4
55°	227.7	274.0	328.3	382.5	435.0	480.4	513.3	532.0	547.1	555.1	561.3
57.5°	185.9	228.6	278.4	328.3	373.6	411.0	436.8	455.5	462.6	468.8	467.9
60°	145.9	185.9	231.3	274.0	313.1	343.4	362.1	372.7	378.1	380.7	378.9
62.5°	114.8	151.2	185.9	223.3	251.7	277.5	295.3	295.3	298.0	298.9	301.6
65°	85.4	113.0	143.2	170.8	193.9	210.8	220.6	223.3	226.8	226.0	224.2
67.5°	63.2	83.6	105.8	126.3	142.3	153.0	160.1	166.4	165.5	163.7	162.8
70°	43.6	56.9	76.5	89.0	100.5	111.2	113.0	113.9	114.8	115.6	113.9
72.5°	30.3	40.0	50.7	61.4	68.5	72.9	77.4	78.3	78.3	78.3	77.4
75°	15.1	20.5	30.3	34.7	40.9	42.7	46.3	46.3	48.9	45.4	44.5
77.5°	13.3	16.0	21.4	24.9	27.6	30.3	31.1	33.8	32.9	31.1	32.0
80°	8.0	9.8	13.3	15.1	18.7	19.6	20.5	21.4	20.5	21.4	21.4
82.5°	6.2	7.1	8.9	8.9	11.6	11.6	12.5	12.5	13.3	13.3	13.3
85°	3.5	6.2	5.3	10.7	7.1	7.1	8.9	10.7	8.9	8.9	10.7
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: P246201

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1657.3	1657.3	1657.3	1657.3
2.5°	1659.9	1661.7	1659.0	1658.1
5°	1662.6	1662.6	1660.8	1660.8
7.5°	1662.6	1662.6	1659.9	1658.1
10°	1655.5	1655.5	1652.8	1651.0
12.5°	1642.1	1642.1	1641.2	1638.6
15°	1625.2	1625.2	1621.7	1619.0
17.5°	1602.1	1603.9	1599.4	1599.4
20°	1577.2	1576.3	1572.8	1571.0
22.5°	1551.4	1549.6	1548.7	1543.4
25°	1523.8	1522.0	1519.4	1516.7
27.5°	1476.7	1475.8	1473.1	1469.6
30°	1404.6	1403.7	1400.2	1400.2
32.5°	1311.2	1310.3	1306.8	1307.7
35°	1214.2	1217.8	1216.0	1212.5
37.5°	1133.3	1136.0	1137.8	1136.0
40°	1065.7	1073.7	1074.6	1076.4
42.5°	993.6	1004.3	1007.9	1009.6
45°	907.3	917.1	925.1	923.4
47.5°	819.3	826.4	833.5	828.2
50°	734.8	739.2	741.9	741.9
52.5°	654.7	654.7	653.8	654.7
55°	563.1	563.1	559.5	561.3
57.5°	467.0	468.8	466.1	461.7
60°	378.1	373.6	371.8	369.2
62.5°	294.5	294.5	288.2	296.2
65°	220.6	217.9	215.3	214.4
67.5°	160.1	159.2	156.6	155.7
70°	113.0	109.4	108.5	106.7
72.5°	75.6	75.6	73.8	73.8
75°	46.3	41.8	40.9	41.8
77.5°	32.0	31.1	31.1	30.3
80°	21.4	20.5	22.2	19.6
82.5°	13.3	14.2	13.3	14.2
85°	8.9	10.7	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)