

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: P244611

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244611
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 EC8B30840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

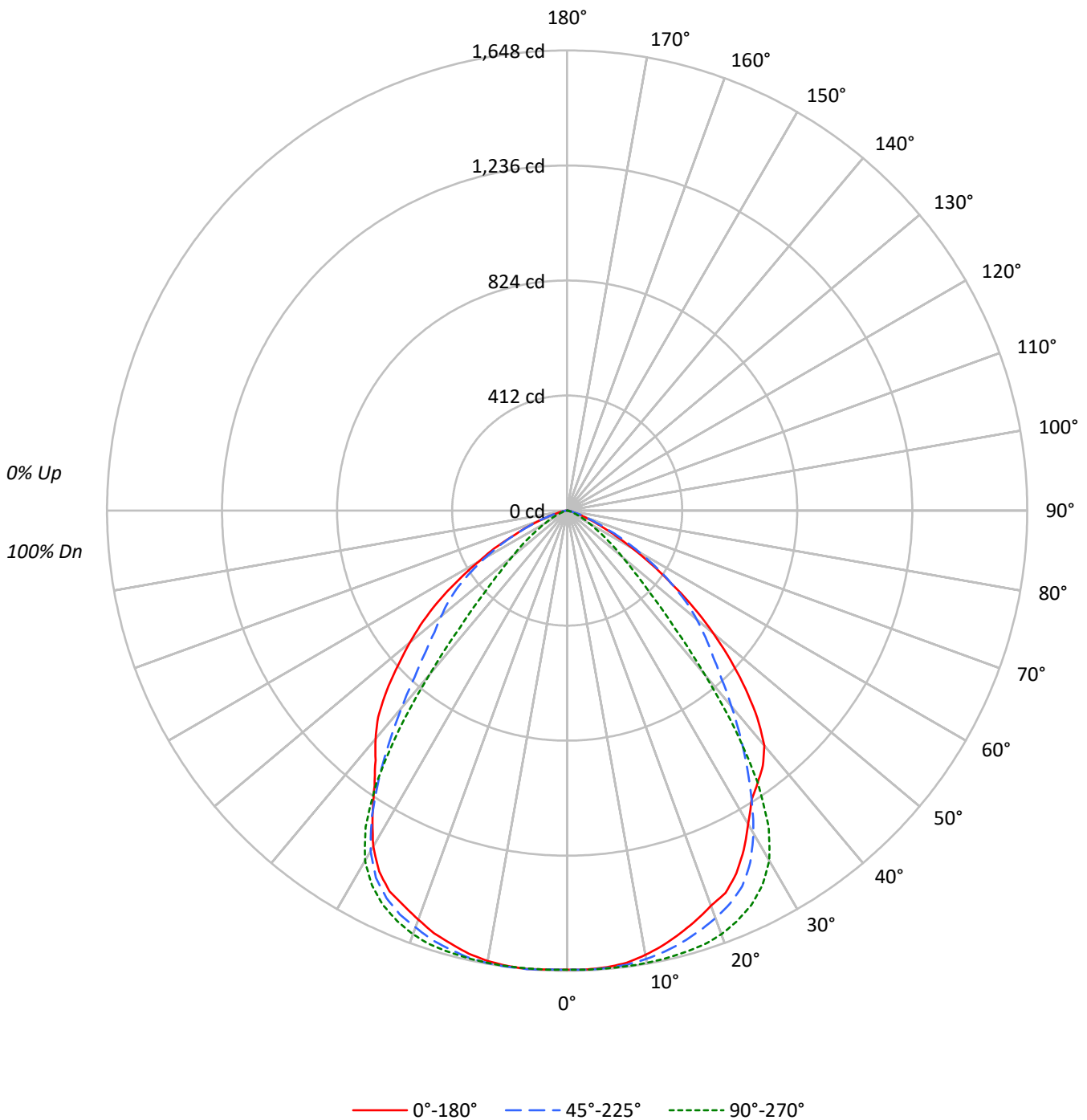
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50698	50698	50698
5°	50808	50944	51000
10°	50594	51505	51286
15°	50035	52260	51273
20°	49433	52993	51143
25°	48791	53057	51193
30°	46161	51566	49458
35°	44782	44815	45278
40°	44227	30835	42983
45°	39410	18512	39946
50°	32765	12319	35308
55°	24574	8494	29934
60°	16652	5662	22585
65°	10047	3670	15520
70°	5572	1993	9548
75°	2526	846	4944
80°	2202	941	3445
85°	2512	1238	3432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	5.0
10°-20°	455.7	14.6
20°-30°	691.6	22.2
30°-40°	726.4	23.3
40°-50°	544.6	17.5
50°-60°	349.4	11.2
60°-70°	149.5	4.8
70°-80°	35.3	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°	1304.2	41.9
0°-40°	2030.6	65.2
0°-60°	2924.6	93.9
0°-90°	3116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1644	1644	1644	1644	1644	
5°	1641	1644	1646	1648	1648	156
15°	1567	1600	1637	1626	1606	442
25°	1434	1484	1559	1531	1505	655
35°	1190	1123	1190	1176	1203	747
45°	904	739	424	718	916	692
55°	457	457	158	476	557	415
65°	138	162	50	209	213	147
75°	21	25	7	42	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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1644.9	1646.7	1645.8	1645.8	1644.9	1645.8	1645.8	1647.6	1647.6	1645.8	1644.9
5°	1641.4	1643.2	1643.2	1641.4	1641.4	1645.8	1643.2	1644.9	1644.9	1644.1	1644.1
7.5°	1633.5	1633.5	1637.0	1634.4	1634.4	1637.0	1636.1	1637.9	1639.7	1640.5	1640.5
10°	1615.8	1617.6	1618.5	1618.5	1619.4	1622.0	1623.8	1627.3	1629.1	1630.8	1631.7
12.5°	1593.8	1596.4	1597.3	1596.4	1599.1	1602.6	1607.0	1611.4	1614.1	1617.6	1620.2
15°	1567.3	1567.3	1569.0	1571.7	1573.5	1578.8	1583.2	1588.5	1595.5	1599.9	1604.4
17.5°	1538.2	1539.9	1542.6	1542.6	1546.1	1554.9	1557.6	1565.5	1573.5	1577.9	1586.7
20°	1506.4	1508.2	1510.8	1512.6	1517.0	1524.0	1529.3	1536.4	1545.2	1553.2	1562.0
22.5°	1481.7	1478.2	1479.9	1481.7	1486.1	1492.3	1498.5	1507.3	1516.1	1524.0	1532.9
25°	1434.0	1434.9	1437.6	1439.3	1444.6	1449.9	1457.0	1467.6	1475.5	1484.3	1494.0
27.5°	1369.6	1370.5	1374.9	1374.9	1379.3	1388.1	1392.5	1401.4	1412.0	1420.8	1432.3
30°	1296.4	1298.1	1298.1	1301.7	1304.3	1308.7	1313.1	1322.0	1327.3	1335.2	1351.1
32.5°	1229.3	1231.1	1230.2	1229.3	1226.7	1225.8	1224.9	1226.7	1228.4	1231.1	1237.2
35°	1189.6	1185.2	1181.7	1175.5	1168.4	1159.6	1151.6	1141.1	1131.3	1123.4	1114.6
37.5°	1151.6	1150.8	1145.5	1136.6	1122.5	1106.6	1088.1	1065.2	1042.2	1017.5	993.7
40°	1098.7	1096.0	1091.6	1079.3	1063.4	1044.0	1019.3	991.0	954.0	916.0	877.2
42.5°	1008.7	1009.6	1004.3	994.5	979.6	961.0	935.4	904.5	864.8	819.8	769.5
45°	903.7	903.7	901.9	893.9	883.4	868.4	848.9	823.4	784.5	738.6	684.8
47.5°	794.2	795.1	792.5	790.7	786.3	776.6	762.5	743.1	715.7	671.6	617.7
50°	683.0	683.0	687.5	686.6	686.6	683.0	676.9	665.4	641.6	606.3	556.0
52.5°	571.8	573.6	576.3	579.8	584.2	591.3	584.2	578.9	563.9	536.5	493.3
55°	457.1	458.9	463.3	469.5	474.8	481.8	483.6	483.6	475.6	457.1	424.5
57.5°	359.2	356.5	360.1	365.4	372.4	379.5	384.8	390.9	390.1	377.7	351.2
60°	270.0	270.9	273.6	278.9	284.2	290.3	297.4	302.7	305.3	299.2	282.4
62.5°	196.8	196.8	200.3	205.6	208.3	217.1	221.5	224.2	226.8	225.9	215.3
65°	137.7	139.4	141.2	143.9	146.5	151.8	154.4	159.7	161.5	162.4	154.4
67.5°	97.1	94.4	96.2	97.9	100.6	104.1	109.4	109.4	112.1	112.1	106.8
70°	61.8	61.8	62.7	65.3	67.1	68.0	69.7	71.5	74.1	73.2	73.2
72.5°	41.5	40.6	41.5	42.4	43.3	45.9	45.9	46.8	48.5	49.4	45.9
75°	21.2	22.1	23.8	23.0	25.6	23.8	24.7	27.4	26.5	24.7	24.7
77.5°	17.6	17.6	17.6	16.8	18.5	18.5	17.6	19.4	18.5	18.5	17.6
80°	12.4	13.2	12.4	11.5	12.4	11.5	11.5	11.5	11.5	11.5	10.6
82.5°	9.7	7.9	8.8	7.9	8.8	8.8	7.9	7.1	7.1	7.9	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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1646.7	1645.8	1647.6	1646.7	1646.7	1645.8	1646.7	1645.8	1647.6	1644.1	1644.9
5°	1646.7	1644.9	1645.8	1646.7	1647.6	1645.8	1645.8	1645.8	1647.6	1645.8	1646.7
7.5°	1643.2	1642.3	1644.9	1646.7	1645.8	1644.9	1646.7	1645.8	1647.6	1646.7	1648.5
10°	1636.1	1637.0	1638.8	1641.4	1642.3	1643.2	1644.9	1644.9	1647.6	1644.1	1645.8
12.5°	1625.5	1629.1	1633.5	1635.2	1638.8	1638.8	1640.5	1641.4	1643.2	1642.3	1644.9
15°	1612.3	1616.7	1622.0	1626.4	1630.8	1633.5	1636.1	1637.0	1639.7	1637.0	1637.9
17.5°	1596.4	1601.7	1609.6	1614.9	1622.0	1624.7	1628.2	1629.9	1632.6	1630.8	1631.7
20°	1574.3	1580.5	1589.3	1597.3	1601.7	1607.9	1612.3	1614.9	1616.7	1614.9	1615.8
22.5°	1543.5	1552.3	1563.8	1569.9	1578.8	1584.1	1584.9	1591.1	1595.5	1591.1	1592.9
25°	1507.3	1516.1	1524.9	1538.2	1546.1	1552.3	1558.5	1559.4	1563.8	1562.9	1562.0
27.5°	1447.3	1458.8	1473.7	1484.3	1494.9	1504.6	1511.7	1513.4	1517.9	1516.1	1517.0
30°	1365.2	1377.6	1391.7	1408.4	1423.4	1433.1	1442.0	1448.2	1452.6	1449.9	1449.0
32.5°	1248.7	1261.1	1276.1	1292.8	1310.5	1324.6	1335.2	1343.1	1348.4	1346.7	1342.3
35°	1115.5	1119.0	1128.7	1141.9	1156.9	1171.9	1181.7	1190.5	1196.6	1198.4	1198.4
37.5°	978.7	967.2	960.2	960.2	969.0	975.1	984.0	989.3	999.0	1002.5	1005.1
40°	846.3	819.8	795.1	776.6	764.2	763.4	763.4	766.0	774.8	786.3	796.9
42.5°	728.0	685.7	647.7	613.3	588.6	574.5	568.3	569.2	576.3	586.9	604.5
45°	633.6	580.7	533.0	491.5	458.0	435.9	425.4	424.5	429.8	442.1	461.5
47.5°	560.4	503.9	450.1	402.4	366.2	342.4	330.0	326.5	330.0	341.5	364.5
50°	499.5	441.3	385.6	336.2	297.4	272.7	261.2	256.8	261.2	270.9	293.9
52.5°	443.0	383.0	330.9	283.3	241.8	220.6	208.3	205.6	208.3	219.7	238.3
55°	377.7	326.5	275.3	227.7	191.5	170.3	160.6	158.0	160.6	171.2	190.6
57.5°	313.3	269.2	224.2	180.9	150.0	131.5	122.7	119.1	125.3	132.4	155.3
60°	253.3	218.0	180.0	142.1	116.5	99.7	92.7	91.8	93.5	102.4	118.2
62.5°	198.6	169.4	139.4	108.5	87.4	80.3	71.5	70.6	72.4	77.6	90.0
65°	143.0	124.4	101.5	79.4	62.7	52.9	49.4	50.3	52.1	55.6	67.1
67.5°	99.7	86.5	70.6	55.6	43.3	38.8	35.3	34.4	35.3	41.5	47.7
70°	67.1	59.1	47.7	42.4	30.0	23.8	24.7	22.1	25.6	25.6	30.9
72.5°	44.1	38.8	31.8	24.7	21.2	16.8	16.8	15.9	17.6	18.5	23.0
75°	23.0	17.6	17.6	12.4	8.8	4.4	7.9	7.1	6.2	7.1	8.8
77.5°	15.9	13.2	12.4	9.7	8.8	7.1	7.1	7.1	7.1	7.9	8.8
80°	9.7	9.7	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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1646.7	1647.6	1647.6	1646.7	1646.7	1644.9	1648.5	1645.8	1646.7	1650.2	1647.6
5°	1648.5	1649.4	1649.4	1648.5	1648.5	1648.5	1649.4	1649.4	1648.5	1647.6	1649.4
7.5°	1652.0	1651.1	1651.1	1649.4	1649.4	1647.6	1649.4	1646.7	1648.5	1646.7	1649.4
10°	1647.6	1648.5	1647.6	1646.7	1646.7	1645.8	1645.8	1643.2	1644.1	1641.4	1643.2
12.5°	1644.9	1644.1	1644.1	1642.3	1640.5	1638.8	1637.9	1635.2	1635.2	1629.1	1631.7
15°	1637.9	1638.8	1636.1	1632.6	1630.8	1626.4	1624.7	1621.1	1617.6	1613.2	1614.1
17.5°	1631.7	1629.1	1625.5	1622.0	1614.9	1611.4	1607.9	1602.6	1600.8	1595.5	1593.8
20°	1613.2	1611.4	1607.0	1600.8	1596.4	1588.5	1584.9	1579.7	1575.2	1569.9	1567.3
22.5°	1589.3	1587.6	1582.3	1576.1	1569.0	1565.5	1562.0	1552.3	1547.9	1542.6	1541.7
25°	1559.4	1556.7	1551.4	1544.3	1540.8	1531.1	1527.6	1520.5	1518.8	1513.4	1512.6
27.5°	1513.4	1509.9	1503.8	1494.9	1488.7	1482.6	1479.0	1473.7	1472.0	1466.7	1465.8
30°	1444.6	1440.2	1427.9	1424.3	1413.7	1407.6	1407.6	1400.5	1401.4	1397.9	1397.9
32.5°	1336.1	1329.0	1319.3	1312.2	1305.2	1301.7	1301.7	1299.0	1300.8	1300.8	1302.5
35°	1192.2	1182.5	1177.2	1172.8	1172.8	1176.3	1186.9	1189.6	1194.9	1199.3	1202.8
37.5°	1007.8	1006.9	1013.1	1018.4	1031.6	1046.6	1065.2	1081.0	1096.0	1106.6	1117.2
40°	808.4	830.4	848.1	872.8	893.1	922.2	955.7	983.1	1008.7	1027.2	1046.6
42.5°	631.0	659.2	696.3	732.5	768.6	808.4	852.5	890.4	924.0	949.5	969.8
45°	491.5	530.4	575.4	621.3	668.0	717.5	763.4	802.2	837.5	864.0	884.3
47.5°	396.2	438.6	489.8	540.1	593.0	645.1	696.3	729.8	758.9	780.1	798.7
50°	327.4	372.4	426.2	483.6	536.5	588.6	632.7	665.4	689.2	707.8	719.2
52.5°	273.6	321.2	378.6	435.9	488.9	536.5	576.3	601.0	620.4	633.6	644.2
55°	225.9	271.8	325.6	379.5	431.5	476.5	509.2	527.7	542.7	550.7	556.8
57.5°	184.4	226.8	276.2	325.6	370.6	407.7	433.3	451.8	458.9	465.1	464.2
60°	144.7	184.4	229.4	271.8	310.6	340.6	359.2	369.8	375.0	377.7	375.9
62.5°	113.8	150.0	184.4	221.5	249.7	275.3	293.0	293.0	295.6	296.5	299.2
65°	84.7	112.1	142.1	169.4	192.4	209.1	218.9	221.5	225.0	224.2	222.4
67.5°	62.7	83.0	105.0	125.3	141.2	151.8	158.8	165.0	164.1	162.4	161.5
70°	43.3	56.5	75.9	88.3	99.7	110.3	112.1	113.0	113.8	114.7	113.0
72.5°	30.0	39.7	50.3	60.9	68.0	72.4	76.8	77.6	77.6	77.6	76.8
75°	15.0	20.3	30.0	34.4	40.6	42.4	45.9	45.9	48.5	45.0	44.1
77.5°	13.2	15.9	21.2	24.7	27.4	30.0	30.9	33.5	32.6	30.9	31.8
80°	7.9	9.7	13.2	15.0	18.5	19.4	20.3	21.2	20.3	21.2	21.2
82.5°	6.2	7.1	8.8	8.8	11.5	11.5	12.4	12.4	13.2	13.2	13.2
85°	3.5	6.2	5.3	10.6	7.1	7.1	8.8	10.6	8.8	8.8	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: P244611

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1644.1	1644.1	1644.1	1644.1
2.5°	1646.7	1648.5	1645.8	1644.9
5°	1649.4	1649.4	1647.6	1647.6
7.5°	1649.4	1649.4	1646.7	1644.9
10°	1642.3	1642.3	1639.7	1637.9
12.5°	1629.1	1629.1	1628.2	1625.5
15°	1612.3	1612.3	1608.8	1606.1
17.5°	1589.3	1591.1	1586.7	1586.7
20°	1564.6	1563.8	1560.2	1558.5
22.5°	1539.1	1537.3	1536.4	1531.1
25°	1511.7	1509.9	1507.3	1504.6
27.5°	1464.9	1464.0	1461.4	1457.9
30°	1393.4	1392.5	1389.0	1389.0
32.5°	1300.8	1299.9	1296.4	1297.3
35°	1204.6	1208.1	1206.4	1202.8
37.5°	1124.3	1126.9	1128.7	1126.9
40°	1057.2	1065.2	1066.0	1067.8
42.5°	985.7	996.3	999.9	1001.6
45°	900.1	909.8	917.8	916.0
47.5°	812.8	819.8	826.9	821.6
50°	728.9	733.3	736.0	736.0
52.5°	649.5	649.5	648.6	649.5
55°	558.6	558.6	555.1	556.8
57.5°	463.3	465.1	462.4	458.0
60°	375.0	370.6	368.9	366.2
62.5°	292.1	292.1	285.9	293.9
65°	218.9	216.2	213.6	212.7
67.5°	158.8	158.0	155.3	154.4
70°	112.1	108.5	107.7	105.9
72.5°	75.0	75.0	73.2	73.2
75°	45.9	41.5	40.6	41.5
77.5°	31.8	30.9	30.9	30.0
80°	21.2	20.3	22.1	19.4
82.5°	13.2	14.1	13.2	14.1
85°	8.8	10.6	9.7	9.7
87.5°	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)