

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: P246129

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246129  
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 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2811.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 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

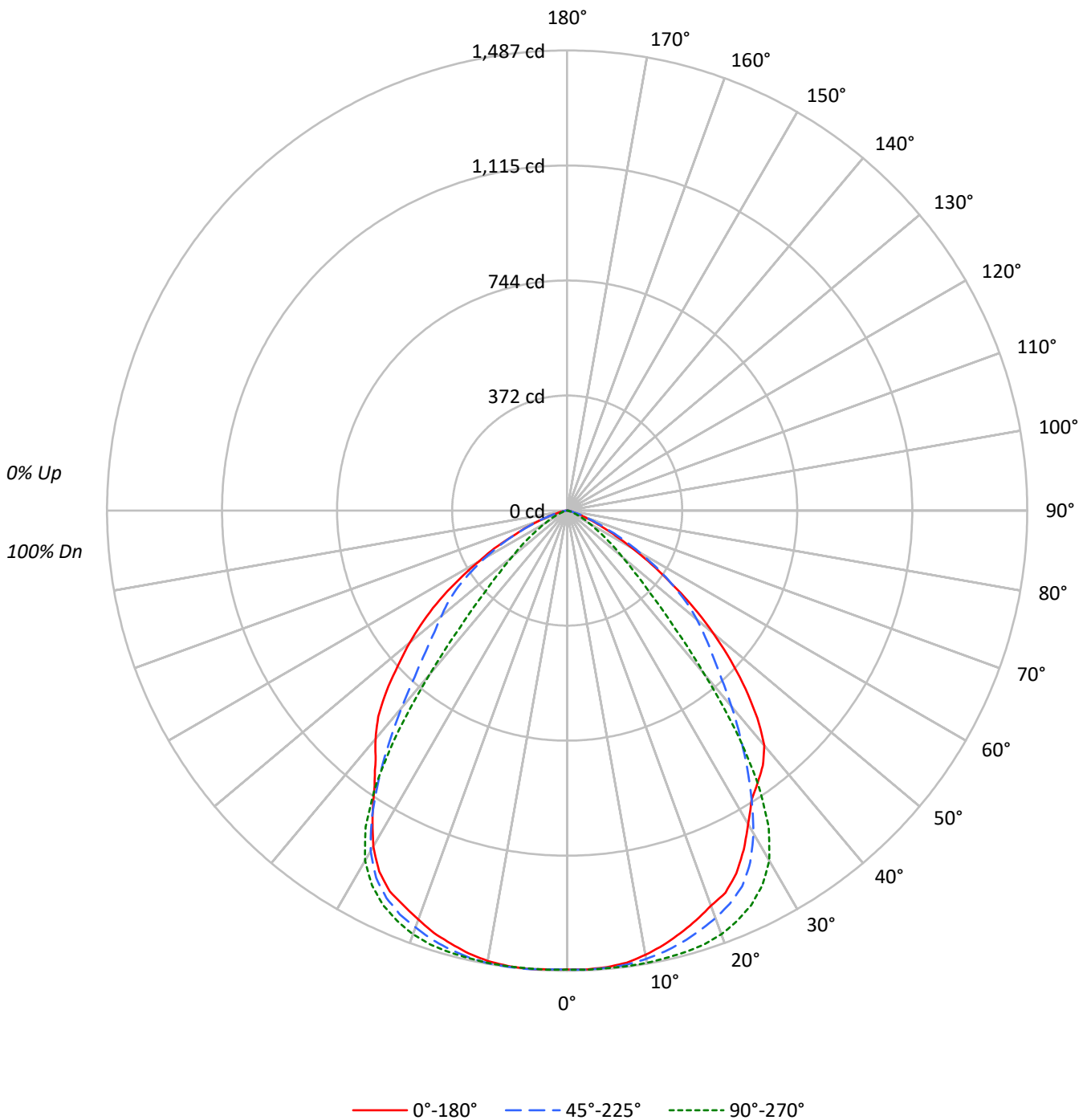
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**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°	45733	45733	45733
5°	45834	45958	46007
10°	45644	46464	46267
15°	45137	47146	46255
20°	44596	47809	46135
25°	44017	47862	46184
30°	41642	46517	44619
35°	40400	40426	40848
40°	39896	27815	38777
45°	35550	16698	36039
50°	29561	11115	31854
55°	22171	7661	27004
60°	15023	5106	20377
65°	9062	3313	14002
70°	5022	1794	8610
75°	2276	763	4456
80°	1971	852	3108
85°	2264	1132	3114



TEST NUMBER: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.5	5.0
10°-20°	411.1	14.6
20°-30°	623.9	22.2
30°-40°	655.3	23.3
40°-50°	491.3	17.5
50°-60°	315.2	11.2
60°-70°	134.9	4.8
70°-80°	31.9	1.1
80°-90°	5.9	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°	1176.5	41.9
0°-40°	1831.8	65.2
0°-60°	2638.4	93.9
0°-90°	2811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1483	1483	1483	1483	1483	
5°	1481	1483	1485	1487	1486	141
15°	1414	1443	1477	1467	1449	399
25°	1294	1339	1407	1381	1357	591
35°	1073	1013	1074	1061	1085	674
45°	815	666	383	647	826	624
55°	412	412	142	430	502	374
65°	124	146	45	189	192	133
75°	19	22	6	38	37	28
85°	6	4	3	6	9	7
90°	0	0	0	0	0	



TEST NUMBER: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1483.9	1485.5	1484.7	1484.7	1483.9	1484.7	1484.7	1486.3	1486.3	1484.7	1483.9
5°	1480.7	1482.3	1482.3	1480.7	1480.7	1484.7	1482.3	1483.9	1483.9	1483.1	1483.1
7.5°	1473.6	1473.6	1476.8	1474.4	1474.4	1476.8	1476.0	1477.6	1479.2	1480.0	1480.0
10°	1457.7	1459.3	1460.1	1460.1	1460.9	1463.2	1464.8	1468.0	1469.6	1471.2	1472.0
12.5°	1437.8	1440.1	1440.9	1440.1	1442.5	1445.7	1449.7	1453.7	1456.1	1459.3	1461.7
15°	1413.9	1413.9	1415.5	1417.9	1419.5	1424.2	1428.2	1433.0	1439.3	1443.3	1447.3
17.5°	1387.6	1389.2	1391.6	1391.6	1394.8	1402.7	1405.1	1412.3	1419.5	1423.4	1431.4
20°	1359.0	1360.5	1362.9	1364.5	1368.5	1374.9	1379.6	1386.0	1394.0	1401.1	1409.1
22.5°	1336.7	1333.5	1335.1	1336.7	1340.6	1346.2	1351.8	1359.7	1367.7	1374.9	1382.8
25°	1293.7	1294.5	1296.9	1298.4	1303.2	1308.0	1314.4	1323.9	1331.1	1339.0	1347.8
27.5°	1235.6	1236.4	1240.3	1240.3	1244.3	1252.3	1256.2	1264.2	1273.8	1281.7	1292.1
30°	1169.5	1171.1	1171.1	1174.3	1176.6	1180.6	1184.6	1192.6	1197.3	1204.5	1218.8
32.5°	1109.0	1110.6	1109.8	1109.0	1106.6	1105.8	1105.0	1106.6	1108.2	1110.6	1116.1
35°	1073.2	1069.2	1066.0	1060.4	1054.0	1046.1	1038.9	1029.4	1020.6	1013.4	1005.5
37.5°	1038.9	1038.1	1033.3	1025.4	1012.6	998.3	981.6	960.9	940.2	917.9	896.4
40°	991.1	988.8	984.8	973.6	959.3	941.8	919.5	894.0	860.6	826.4	791.3
42.5°	909.9	910.7	906.0	897.2	883.7	866.9	843.9	816.0	780.2	739.6	694.2
45°	815.2	815.2	813.6	806.4	796.9	783.4	765.9	742.8	707.7	666.3	617.8
47.5°	716.5	717.3	714.9	713.3	709.3	700.6	687.8	670.3	645.6	605.8	557.3
50°	616.2	616.2	620.2	619.4	619.4	616.2	610.6	600.3	578.8	546.9	501.6
52.5°	515.9	517.5	519.9	523.0	527.0	533.4	527.0	522.2	508.7	484.0	445.0
55°	412.4	414.0	417.9	423.5	428.3	434.7	436.3	436.3	429.1	412.4	382.9
57.5°	324.0	321.6	324.8	329.6	336.0	342.3	347.1	352.7	351.9	340.7	316.9
60°	243.6	244.4	246.8	251.6	256.3	261.9	268.3	273.1	275.5	269.9	254.8
62.5°	177.5	177.5	180.7	185.5	187.9	195.8	199.8	202.2	204.6	203.8	194.2
65°	124.2	125.8	127.4	129.8	132.1	136.9	139.3	144.1	145.7	146.5	139.3
67.5°	87.6	85.2	86.8	88.4	90.8	93.9	98.7	98.7	101.1	101.1	96.3
70°	55.7	55.7	56.5	58.9	60.5	61.3	62.9	64.5	66.9	66.1	66.1
72.5°	37.4	36.6	37.4	38.2	39.0	41.4	41.4	42.2	43.8	44.6	41.4
75°	19.1	19.9	21.5	20.7	23.1	21.5	22.3	24.7	23.9	22.3	22.3
77.5°	15.9	15.9	15.9	15.1	16.7	16.7	15.9	17.5	16.7	16.7	15.9
80°	11.1	11.9	11.1	10.3	11.1	10.3	10.3	10.3	10.3	10.3	9.5
82.5°	8.8	7.2	8.0	7.2	8.0	8.0	7.2	6.4	6.4	7.2	6.4
85°	6.4	4.8	5.6	5.6	4.8	4.8	4.8	4.8	4.8	4.0	4.0
87.5°	4.0	2.4	2.4	2.4	3.2	3.2	3.2	2.4	3.2	3.2	1.6
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: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1485.5	1484.7	1486.3	1485.5	1485.5	1484.7	1485.5	1484.7	1486.3	1483.1	1483.9
5°	1485.5	1483.9	1484.7	1485.5	1486.3	1484.7	1484.7	1484.7	1486.3	1484.7	1485.5
7.5°	1482.3	1481.5	1483.9	1485.5	1484.7	1483.9	1485.5	1484.7	1486.3	1485.5	1487.1
10°	1476.0	1476.8	1478.4	1480.7	1481.5	1482.3	1483.9	1483.9	1486.3	1483.1	1484.7
12.5°	1466.4	1469.6	1473.6	1475.2	1478.4	1478.4	1480.0	1480.7	1482.3	1481.5	1483.9
15°	1454.5	1458.5	1463.2	1467.2	1471.2	1473.6	1476.0	1476.8	1479.2	1476.8	1477.6
17.5°	1440.1	1444.9	1452.1	1456.9	1463.2	1465.6	1468.8	1470.4	1472.8	1471.2	1472.0
20°	1420.2	1425.8	1433.8	1440.9	1444.9	1450.5	1454.5	1456.9	1458.5	1456.9	1457.7
22.5°	1392.4	1400.4	1410.7	1416.3	1424.2	1429.0	1429.8	1435.4	1439.3	1435.4	1437.0
25°	1359.7	1367.7	1375.7	1387.6	1394.8	1400.4	1405.9	1406.7	1410.7	1409.9	1409.1
27.5°	1305.6	1316.0	1329.5	1339.0	1348.6	1357.4	1363.7	1365.3	1369.3	1367.7	1368.5
30°	1231.6	1242.7	1255.5	1270.6	1284.1	1292.9	1300.8	1306.4	1310.4	1308.0	1307.2
32.5°	1126.5	1137.6	1151.2	1166.3	1182.2	1194.9	1204.5	1211.7	1216.4	1214.8	1210.9
35°	1006.3	1009.5	1018.2	1030.2	1043.7	1057.2	1066.0	1073.9	1079.5	1081.1	1081.1
37.5°	882.9	872.5	866.2	866.2	874.1	879.7	887.7	892.4	901.2	904.4	906.8
40°	763.5	739.6	717.3	700.6	689.4	688.6	688.6	691.0	699.0	709.3	718.9
42.5°	656.8	618.6	584.3	553.3	531.0	518.3	512.7	513.5	519.9	529.4	545.3
45°	571.6	523.8	480.8	443.4	413.2	393.3	383.7	382.9	387.7	398.8	416.4
47.5°	505.5	454.6	406.0	363.0	330.4	308.9	297.7	294.6	297.7	308.1	328.8
50°	450.6	398.1	347.9	303.3	268.3	246.0	235.6	231.7	235.6	244.4	265.1
52.5°	399.6	345.5	298.5	255.5	218.1	199.0	187.9	185.5	187.9	198.2	215.0
55°	340.7	294.6	248.4	205.4	172.8	153.7	144.9	142.5	144.9	154.5	172.0
57.5°	282.6	242.8	202.2	163.2	135.3	118.6	110.7	107.5	113.0	119.4	140.1
60°	228.5	196.6	162.4	128.2	105.1	90.0	83.6	82.8	84.4	92.4	106.7
62.5°	179.1	152.9	125.8	97.9	78.8	72.4	64.5	63.7	65.3	70.0	81.2
65°	129.0	112.3	91.6	71.6	56.5	47.8	44.6	45.4	47.0	50.2	60.5
67.5°	90.0	78.0	63.7	50.2	39.0	35.0	31.8	31.1	31.8	37.4	43.0
70°	60.5	53.3	43.0	38.2	27.1	21.5	22.3	19.9	23.1	23.1	27.9
72.5°	39.8	35.0	28.7	22.3	19.1	15.1	15.1	14.3	15.9	16.7	20.7
75°	20.7	15.9	15.9	11.1	8.0	4.0	7.2	6.4	5.6	6.4	8.0
77.5°	14.3	11.9	11.1	8.8	8.0	6.4	6.4	6.4	6.4	7.2	8.0
80°	8.8	8.8	6.4	5.6	4.8	4.0	4.8	4.8	4.8	4.8	5.6
82.5°	5.6	4.8	4.8	4.0	4.0	3.2	3.2	3.2	3.2	3.2	4.8
85°	4.8	3.2	3.2	2.4	3.2	5.6	2.4	3.2	3.2	3.2	2.4
87.5°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	4.0	3.2
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: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1485.5	1486.3	1486.3	1485.5	1485.5	1483.9	1487.1	1484.7	1485.5	1488.7	1486.3
5°	1487.1	1487.9	1487.9	1487.1	1487.1	1487.1	1487.9	1487.9	1487.1	1486.3	1487.9
7.5°	1490.3	1489.5	1489.5	1487.9	1487.9	1486.3	1487.9	1485.5	1487.1	1485.5	1487.9
10°	1486.3	1487.1	1486.3	1485.5	1485.5	1484.7	1484.7	1482.3	1483.1	1480.7	1482.3
12.5°	1483.9	1483.1	1483.1	1481.5	1480.0	1478.4	1477.6	1475.2	1475.2	1469.6	1472.0
15°	1477.6	1478.4	1476.0	1472.8	1471.2	1467.2	1465.6	1462.4	1459.3	1455.3	1456.1
17.5°	1472.0	1469.6	1466.4	1463.2	1456.9	1453.7	1450.5	1445.7	1444.1	1439.3	1437.8
20°	1455.3	1453.7	1449.7	1444.1	1440.1	1433.0	1429.8	1425.0	1421.0	1416.3	1413.9
22.5°	1433.8	1432.2	1427.4	1421.8	1415.5	1412.3	1409.1	1400.4	1396.4	1391.6	1390.8
25°	1406.7	1404.3	1399.6	1393.2	1390.0	1381.2	1378.0	1371.7	1370.1	1365.3	1364.5
27.5°	1365.3	1362.1	1356.6	1348.6	1343.0	1337.5	1334.3	1329.5	1327.9	1323.1	1322.3
30°	1303.2	1299.2	1288.1	1284.9	1275.4	1269.8	1269.8	1263.4	1264.2	1261.0	1261.0
32.5°	1205.3	1198.9	1190.2	1183.8	1177.4	1174.3	1174.3	1171.9	1173.5	1173.5	1175.1
35°	1075.5	1066.8	1062.0	1058.0	1058.0	1061.2	1070.8	1073.2	1077.9	1081.9	1085.1
37.5°	909.1	908.4	913.9	918.7	930.6	944.2	960.9	975.2	988.8	998.3	1007.9
40°	729.2	749.1	765.1	787.4	805.6	831.9	862.2	886.9	909.9	926.7	944.2
42.5°	569.2	594.7	628.1	660.8	693.4	729.2	769.0	803.3	833.5	856.6	874.9
45°	443.4	478.5	519.1	560.5	602.7	647.2	688.6	723.7	755.5	779.4	797.7
47.5°	357.4	395.7	441.8	487.2	535.0	581.9	628.1	658.4	684.6	703.8	720.5
50°	295.3	336.0	384.5	436.3	484.0	531.0	570.8	600.3	621.8	638.5	648.8
52.5°	246.8	289.8	341.5	393.3	441.0	484.0	519.9	542.1	559.7	571.6	581.1
55°	203.8	245.2	293.8	342.3	389.3	429.9	459.3	476.1	489.6	496.8	502.3
57.5°	166.4	204.6	249.2	293.8	334.4	367.8	390.9	407.6	414.0	419.5	418.7
60°	130.6	166.4	207.0	245.2	280.2	307.3	324.0	333.6	338.3	340.7	339.1
62.5°	102.7	135.3	166.4	199.8	225.3	248.4	264.3	264.3	266.7	267.5	269.9
65°	76.4	101.1	128.2	152.9	173.5	188.7	197.4	199.8	203.0	202.2	200.6
67.5°	56.5	74.8	94.7	113.0	127.4	136.9	143.3	148.9	148.1	146.5	145.7
70°	39.0	51.0	68.5	79.6	90.0	99.5	101.1	101.9	102.7	103.5	101.9
72.5°	27.1	35.8	45.4	54.9	61.3	65.3	69.3	70.0	70.0	70.0	69.3
75°	13.5	18.3	27.1	31.1	36.6	38.2	41.4	41.4	43.8	40.6	39.8
77.5°	11.9	14.3	19.1	22.3	24.7	27.1	27.9	30.3	29.5	27.9	28.7
80°	7.2	8.8	11.9	13.5	16.7	17.5	18.3	19.1	18.3	19.1	19.1
82.5°	5.6	6.4	8.0	8.0	10.3	10.3	11.1	11.1	11.9	11.9	11.9
85°	3.2	5.6	4.8	9.5	6.4	6.4	8.0	9.5	8.0	8.0	9.5
87.5°	3.2	3.2	2.4	3.2	3.2	3.2	4.0	4.8	4.8	5.6	4.8
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: P246129

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1483.1	1483.1	1483.1	1483.1
2.5°	1485.5	1487.1	1484.7	1483.9
5°	1487.9	1487.9	1486.3	1486.3
7.5°	1487.9	1487.9	1485.5	1483.9
10°	1481.5	1481.5	1479.2	1477.6
12.5°	1469.6	1469.6	1468.8	1466.4
15°	1454.5	1454.5	1451.3	1448.9
17.5°	1433.8	1435.4	1431.4	1431.4
20°	1411.5	1410.7	1407.5	1405.9
22.5°	1388.4	1386.8	1386.0	1381.2
25°	1363.7	1362.1	1359.7	1357.4
27.5°	1321.5	1320.7	1318.3	1315.2
30°	1257.0	1256.2	1253.1	1253.1
32.5°	1173.5	1172.7	1169.5	1170.3
35°	1086.7	1089.9	1088.3	1085.1
37.5°	1014.2	1016.6	1018.2	1016.6
40°	953.7	960.9	961.7	963.3
42.5°	889.3	898.8	902.0	903.6
45°	812.0	820.8	828.0	826.4
47.5°	733.2	739.6	745.9	741.2
50°	657.6	661.6	664.0	664.0
52.5°	585.9	585.9	585.1	585.9
55°	503.9	503.9	500.8	502.3
57.5°	417.9	419.5	417.2	413.2
60°	338.3	334.4	332.8	330.4
62.5°	263.5	263.5	257.9	265.1
65°	197.4	195.0	192.7	191.9
67.5°	143.3	142.5	140.1	139.3
70°	101.1	97.9	97.1	95.5
72.5°	67.7	67.7	66.1	66.1
75°	41.4	37.4	36.6	37.4
77.5°	28.7	27.9	27.9	27.1
80°	19.1	18.3	19.9	17.5
82.5°	11.9	12.7	11.9	12.7
85°	8.0	9.5	8.8	8.8
87.5°	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)