

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: P245505

Luminaire Tested: **LSR8B30D010 EC8B30940 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245505  
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 EC8B30940 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2815.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

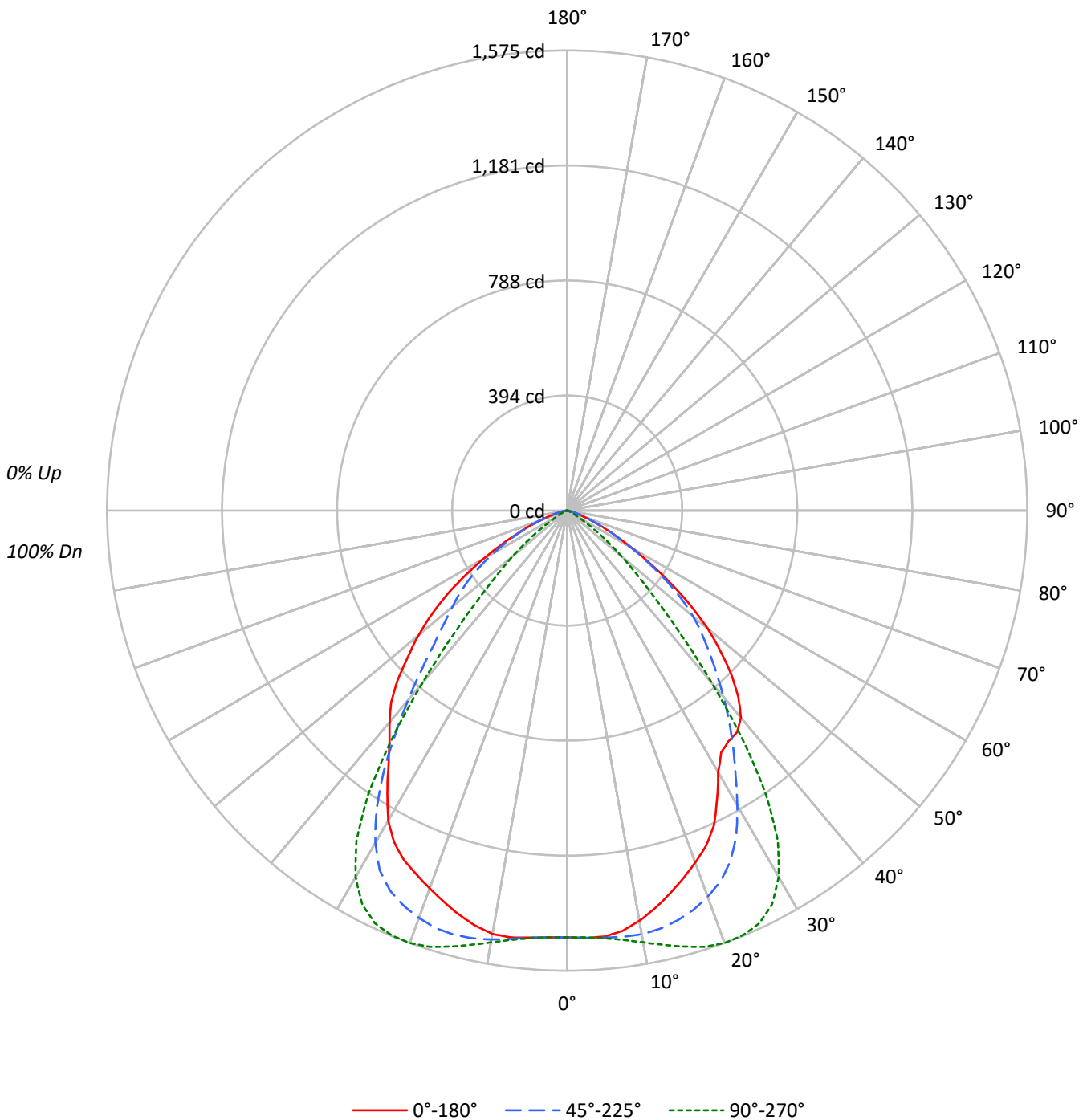
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	45030	45030	45030
5°	45298	45468	45419
10°	44632	46987	46066
15°	43327	49316	45703
20°	42073	51684	45147
25°	40455	53010	44939
30°	36817	51555	43608
35°	36270	44672	40121
40°	37255	30983	38036
45°	34682	18726	35764
50°	30084	11566	31868
55°	23085	6043	27047
60°	15727	2436	20414
65°	9785	1248	14082
70°	5310	766	8592
75°	2776	369	5075
80°	1243	408	2752
85°	814	283	2477



TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	5.0
10°-20°	416.0	14.8
20°-30°	634.7	22.5
30°-40°	662.3	23.5
40°-50°	497.5	17.7
50°-60°	306.1	10.9
60°-70°	124.6	4.4
70°-80°	29.4	1.0
80°-90°	4.0	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°	1191.2	42.3
0°-40°	1853.5	65.8
0°-60°	2657.0	94.4
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1460	1460	1460	1460	1460	
5°	1463	1467	1469	1467	1467	138
15°	1357	1453	1545	1502	1432	382
25°	1189	1322	1558	1435	1321	541
35°	964	991	1187	1097	1066	608
45°	795	688	429	641	820	607
55°	429	408	112	408	503	386
65°	134	136	17	182	193	140
75°	23	23	3	41	43	28
85°	2	2	1	5	7	3
90°	0	0	0	0	0	



TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3
2.5°	1464.2	1461.9	1464.2	1464.2	1465.0	1463.4	1464.2	1465.0	1463.4	1463.4	1463.4
5°	1463.4	1461.9	1463.4	1462.7	1464.2	1464.2	1465.8	1465.8	1467.3	1467.3	1469.6
7.5°	1451.0	1447.9	1451.0	1453.4	1454.9	1458.0	1461.9	1465.0	1468.1	1471.2	1475.1
10°	1425.4	1425.4	1427.8	1432.4	1437.1	1442.5	1449.5	1457.2	1465.0	1471.9	1478.9
12.5°	1393.7	1391.3	1396.0	1402.2	1409.2	1417.7	1428.6	1440.2	1452.6	1466.5	1477.4
15°	1357.2	1354.9	1360.3	1366.5	1375.1	1387.5	1400.7	1416.2	1434.0	1452.6	1470.4
17.5°	1320.0	1319.3	1324.7	1333.2	1340.2	1353.4	1370.4	1389.0	1409.2	1434.0	1457.2
20°	1282.1	1281.3	1286.7	1293.7	1303.0	1315.4	1332.4	1354.1	1378.2	1406.1	1433.2
22.5°	1242.5	1243.3	1247.9	1255.7	1263.5	1276.6	1294.4	1316.2	1342.5	1372.7	1403.0
25°	1189.0	1185.2	1191.4	1199.1	1212.3	1223.1	1240.2	1263.5	1290.6	1322.4	1358.0
27.5°	1111.5	1110.7	1116.2	1123.1	1134.8	1148.0	1166.6	1190.6	1219.3	1254.1	1289.0
30°	1034.0	1035.6	1037.9	1044.9	1052.6	1065.8	1084.4	1104.6	1131.7	1165.0	1202.2
32.5°	981.3	981.3	984.4	989.1	994.5	1001.5	1014.6	1029.4	1050.3	1073.5	1100.7
35°	963.5	960.4	963.5	964.2	965.0	966.6	968.9	973.6	980.5	990.6	1000.7
37.5°	955.7	953.4	953.4	950.3	946.4	941.8	935.6	928.6	920.9	910.8	903.0
40°	925.5	923.9	922.4	919.3	910.8	901.5	891.4	875.1	857.3	832.5	807.7
42.5°	867.4	865.8	865.0	858.8	851.1	840.2	828.6	811.6	789.1	757.3	721.6
45°	795.3	792.2	789.9	784.4	779.0	769.7	758.8	743.3	720.9	688.3	645.7
47.5°	711.6	710.0	709.2	706.9	701.5	696.1	689.1	676.7	656.5	625.5	581.3
50°	627.1	624.0	625.5	624.8	622.4	618.6	613.9	605.4	589.9	562.0	521.7
52.5°	530.2	530.2	529.4	531.7	532.5	531.7	532.5	523.2	510.0	489.1	455.0
55°	429.4	429.4	431.7	434.9	437.9	438.7	437.9	434.1	424.8	407.7	377.5
57.5°	334.8	333.3	338.0	342.6	345.7	348.8	346.5	343.4	338.0	324.0	300.7
60°	255.0	255.0	258.1	261.2	264.3	267.4	266.6	265.9	261.2	251.9	233.3
62.5°	187.6	188.4	188.4	190.7	193.8	196.9	199.2	196.9	194.6	188.4	175.9
65°	134.1	133.3	134.1	136.4	138.8	141.8	143.4	142.6	140.3	135.6	126.4
67.5°	89.9	89.1	92.2	93.0	94.6	97.7	96.9	97.7	96.9	93.0	85.3
70°	58.9	57.4	58.9	58.1	60.5	61.2	62.8	63.6	62.8	60.5	58.1
72.5°	36.4	35.7	36.4	37.2	38.0	38.7	40.3	40.3	39.5	38.0	34.9
75°	23.3	20.9	21.7	20.2	21.7	21.7	23.3	24.0	23.3	23.3	21.7
77.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.7	15.5	14.0	13.2
80°	7.0	7.0	7.8	7.8	7.8	8.5	7.8	7.8	7.8	8.5	6.2
82.5°	5.4	4.6	4.6	4.6	5.4	4.6	4.6	4.6	4.6	4.6	4.6
85°	2.3	3.1	2.3	1.6	2.3	2.3	3.1	2.3	2.3	2.3	3.1
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.6	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



TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3
2.5°	1464.2	1462.7	1462.7	1461.9	1463.4	1461.9	1462.7	1461.9	1461.9	1463.4	1461.9
5°	1469.6	1470.4	1468.9	1468.1	1470.4	1470.4	1470.4	1468.9	1468.9	1469.6	1468.9
7.5°	1477.4	1478.9	1479.7	1480.5	1482.0	1482.8	1482.8	1482.0	1481.3	1483.6	1480.5
10°	1485.9	1488.2	1492.9	1495.2	1499.1	1499.1	1500.6	1500.6	1499.1	1500.6	1499.9
12.5°	1482.8	1496.8	1504.5	1509.9	1515.4	1520.0	1521.6	1522.3	1521.6	1524.7	1521.6
15°	1488.2	1499.9	1512.3	1521.6	1531.6	1537.1	1538.6	1544.8	1546.4	1547.1	1542.5
17.5°	1479.7	1500.6	1513.8	1527.8	1542.5	1552.6	1561.9	1565.8	1566.5	1568.1	1561.9
20°	1460.3	1483.6	1503.7	1523.9	1540.9	1556.4	1564.2	1575.0	1572.0	1578.2	1569.6
22.5°	1434.0	1460.3	1485.9	1512.3	1530.1	1548.7	1565.0	1572.7	1576.6	1576.6	1567.3
25°	1392.1	1423.1	1451.0	1478.2	1505.3	1527.8	1546.4	1558.0	1560.3	1559.6	1548.7
27.5°	1327.0	1360.3	1392.9	1423.9	1457.2	1483.6	1505.3	1519.2	1523.1	1523.1	1511.5
30°	1237.1	1272.7	1304.5	1341.7	1375.8	1405.3	1435.5	1447.9	1454.9	1454.9	1441.7
32.5°	1130.1	1160.4	1189.8	1226.2	1263.5	1296.8	1325.5	1342.5	1351.0	1350.3	1338.6
35°	1013.9	1028.6	1051.1	1078.2	1111.5	1142.5	1170.4	1186.7	1201.4	1200.7	1189.8
37.5°	897.6	893.7	896.0	906.1	927.0	948.8	970.5	986.0	998.3	1003.8	1001.5
40°	783.7	763.5	744.1	737.1	738.7	746.4	758.1	769.7	783.7	790.6	793.7
42.5°	681.3	647.2	613.1	587.5	572.8	568.2	573.6	577.5	586.0	596.1	606.2
45°	599.2	553.4	508.5	469.0	444.1	429.4	426.3	429.4	434.1	444.1	457.3
47.5°	531.7	478.2	427.9	383.7	347.2	327.9	322.5	320.9	325.6	334.8	352.7
50°	472.0	418.6	362.8	311.6	273.6	251.9	244.2	241.1	246.5	253.5	269.7
52.5°	406.9	354.2	296.9	247.3	207.7	185.3	176.7	172.1	175.2	184.5	200.8
55°	336.4	287.6	235.6	184.5	146.5	125.6	115.5	112.4	115.5	125.6	141.8
57.5°	265.9	224.8	181.4	133.3	99.2	78.3	68.2	65.1	73.6	77.5	94.6
60°	207.7	174.4	137.2	97.7	68.2	51.9	41.9	39.5	43.4	50.4	64.3
62.5°	155.8	134.9	105.4	69.8	50.4	33.3	27.9	25.6	27.9	33.3	44.2
65°	113.2	96.9	73.6	51.2	34.1	24.8	18.6	17.1	19.4	23.3	32.6
67.5°	77.5	65.1	51.2	35.7	23.3	15.5	13.2	13.2	14.0	17.1	24.0
70°	50.4	42.6	32.6	23.3	15.5	11.6	10.1	8.5	10.1	12.4	16.3
72.5°	31.8	27.1	20.9	16.3	11.6	8.5	7.0	6.2	7.8	9.3	12.4
75°	19.4	14.7	10.8	8.5	6.2	6.2	6.2	3.1	3.9	6.2	7.8
77.5°	11.6	10.1	8.5	7.0	5.4	3.1	3.1	3.1	3.9	4.6	7.0
80°	6.2	5.4	3.9	3.9	3.1	2.3	3.1	2.3	1.6	3.9	4.6
82.5°	3.9	3.1	3.1	3.1	3.9	1.6	2.3	1.6	2.3	3.1	2.3
85°	2.3	2.3	2.3	1.6	3.9	1.6	1.6	0.8	0.8	1.6	1.6
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



TEST NUMBER: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3	1460.3
2.5°	1462.7	1461.9	1462.7	1461.9	1461.9	1461.9	1462.7	1462.7	1461.9	1461.9	1463.4
5°	1468.9	1468.9	1468.9	1468.1	1467.3	1467.3	1468.9	1468.9	1466.5	1468.9	1468.9
7.5°	1482.0	1479.7	1482.0	1478.9	1477.4	1478.2	1478.9	1477.4	1475.8	1476.6	1476.6
10°	1499.1	1496.8	1496.8	1494.4	1492.1	1490.6	1489.0	1485.1	1481.3	1480.5	1477.4
12.5°	1519.2	1515.4	1513.0	1508.4	1504.5	1499.1	1494.4	1488.2	1480.5	1475.1	1469.6
15°	1539.4	1533.2	1527.8	1520.0	1511.5	1502.2	1492.1	1482.0	1469.6	1458.8	1449.5
17.5°	1555.7	1547.1	1537.1	1524.7	1512.3	1498.3	1483.6	1468.9	1451.0	1437.1	1426.2
20°	1561.1	1548.7	1535.5	1519.2	1503.0	1483.6	1465.0	1445.6	1425.4	1410.7	1398.3
22.5°	1554.1	1539.4	1523.1	1506.1	1484.4	1463.4	1441.7	1419.2	1401.4	1381.3	1369.6
25°	1534.7	1516.9	1499.1	1478.9	1458.0	1434.8	1411.5	1388.3	1366.5	1355.7	1341.0
27.5°	1495.2	1475.8	1456.5	1435.5	1411.5	1388.3	1364.2	1341.7	1323.1	1308.4	1299.9
30°	1425.4	1403.0	1380.5	1358.0	1337.1	1313.1	1290.6	1272.0	1253.4	1241.7	1233.2
32.5°	1318.5	1298.3	1275.9	1254.1	1234.8	1214.6	1196.0	1179.7	1166.6	1158.8	1152.6
35°	1174.3	1154.2	1137.1	1121.6	1105.3	1096.8	1085.2	1075.9	1070.4	1067.3	1066.6
37.5°	992.9	981.3	975.9	972.8	969.7	967.4	968.9	972.8	975.9	981.3	987.5
40°	799.2	809.2	812.3	823.2	833.3	846.4	861.2	878.2	892.2	910.0	922.4
42.5°	622.4	641.0	662.7	686.0	710.8	734.8	764.3	791.4	816.2	838.7	858.1
45°	478.2	506.9	539.5	572.8	606.2	641.0	676.7	710.0	739.5	763.5	783.7
47.5°	372.8	404.6	446.5	487.6	527.9	568.9	608.5	643.3	668.2	691.4	709.2
50°	295.3	331.8	377.5	424.8	469.0	512.3	554.2	586.8	611.6	630.2	643.3
52.5°	228.7	272.1	318.6	368.2	415.5	462.8	501.5	531.7	551.9	568.2	578.2
55°	170.5	213.2	262.8	313.9	362.0	407.7	444.1	470.5	488.3	497.6	503.1
57.5°	123.2	162.0	211.6	262.8	306.2	349.6	379.0	403.1	413.1	418.6	420.9
60°	89.9	125.6	169.7	213.9	255.0	289.9	315.5	331.8	339.5	342.6	341.8
62.5°	65.9	96.9	134.9	172.1	205.4	234.1	254.2	265.1	269.0	270.5	268.2
65°	50.4	74.4	107.0	135.6	161.2	182.1	196.9	203.9	206.2	205.4	203.9
67.5°	37.2	55.8	79.8	101.5	120.1	136.4	144.2	150.4	151.9	149.6	147.3
70°	26.4	41.1	58.1	72.9	86.8	96.1	104.6	105.4	105.4	104.6	103.1
72.5°	18.6	28.7	39.5	49.6	58.1	65.1	68.2	70.5	69.8	69.0	67.4
75°	12.4	17.8	28.7	31.0	38.7	41.1	44.2	44.2	44.9	42.6	42.6
77.5°	7.8	12.4	17.1	20.2	23.3	26.4	27.9	27.9	28.7	27.9	27.9
80°	4.6	7.8	9.3	14.0	14.0	16.3	17.1	17.8	16.3	18.6	16.3
82.5°	3.1	4.6	7.0	7.0	8.5	10.1	10.1	10.8	10.8	10.1	10.1
85°	2.3	3.1	3.9	4.6	4.6	5.4	4.6	4.6	5.4	6.2	5.4
87.5°	0.8	1.6	0.8	1.6	1.6	3.1	2.3	2.3	2.3	3.1	3.1
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: P245505

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1460.3	1460.3	1460.3	1460.3
2.5°	1461.9	1462.7	1461.9	1461.9
5°	1468.9	1468.1	1468.9	1467.3
7.5°	1474.3	1474.3	1473.5	1473.5
10°	1474.3	1471.2	1471.2	1471.2
12.5°	1462.7	1458.8	1456.5	1454.9
15°	1442.5	1435.5	1432.4	1431.6
17.5°	1416.2	1409.9	1406.1	1403.7
20°	1385.9	1379.7	1375.1	1375.8
22.5°	1359.6	1352.6	1349.5	1347.9
25°	1333.2	1324.7	1322.4	1320.8
27.5°	1290.6	1285.9	1283.6	1281.3
30°	1225.5	1223.1	1219.3	1224.7
32.5°	1150.3	1146.4	1143.3	1145.6
35°	1067.3	1065.0	1067.3	1065.8
37.5°	991.4	993.7	996.8	998.3
40°	931.7	940.2	943.3	944.9
42.5°	872.0	882.1	888.3	892.2
45°	798.4	808.4	815.4	820.1
47.5°	722.4	730.9	737.9	737.1
50°	653.4	658.1	661.2	664.3
52.5°	583.7	583.7	584.4	584.4
55°	504.6	503.1	502.3	503.1
57.5°	417.8	416.2	415.5	413.1
60°	338.7	334.1	331.0	331.0
62.5°	265.1	259.7	257.3	256.6
65°	199.2	198.4	193.8	193.0
67.5°	144.2	141.1	138.0	138.8
70°	101.5	96.9	96.9	95.3
72.5°	65.9	63.6	62.8	62.8
75°	41.1	41.1	39.5	42.6
77.5°	27.1	27.1	26.4	27.1
80°	16.3	16.3	16.3	15.5
82.5°	10.1	10.8	10.1	10.1
85°	5.4	6.2	4.6	7.0
87.5°	3.1	3.9	3.1	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)