

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: P244593

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244593  
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 EC8B30827 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2942.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 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

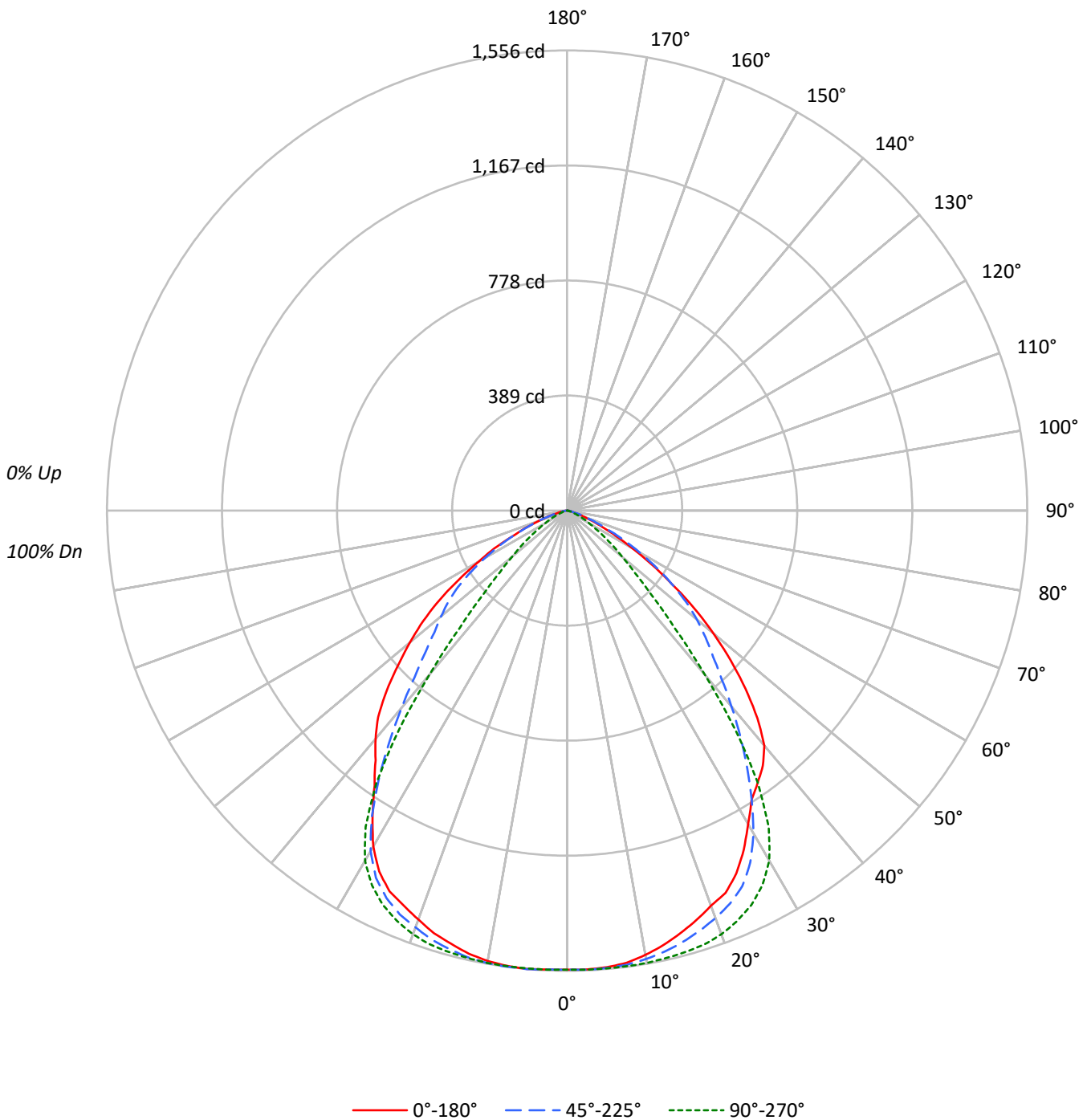
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**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°	47867	47867	47867
5°	47970	48100	48152
10°	47770	48631	48421
15°	47241	49342	48410
20°	46673	50037	48284
25°	46069	50094	48335
30°	43583	48685	46698
35°	42282	42312	42753
40°	41755	29112	40584
45°	37207	17479	37718
50°	30938	11633	33336
55°	23203	8021	28262
60°	15727	5341	21326
65°	9485	3466	14651
70°	5256	1875	9016
75°	2383	798	4670
80°	2078	888	3250
85°	2371	1168	3255



TEST NUMBER: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	5.0
10°-20°	430.2	14.6
20°-30°	653.0	22.2
30°-40°	685.8	23.3
40°-50°	514.2	17.5
50°-60°	329.9	11.2
60°-70°	141.1	4.8
70°-80°	33.3	1.1
80°-90°	6.2	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°	1231.4	41.9
0°-40°	1917.2	65.2
0°-60°	2761.3	93.9
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1552	1552	1552	1552	1552	
5°	1550	1552	1554	1556	1556	147
15°	1480	1511	1546	1536	1516	417
25°	1354	1402	1472	1446	1421	619
35°	1123	1061	1124	1111	1136	705
45°	853	697	401	677	865	653
55°	432	432	149	450	526	391
65°	130	153	48	198	201	139
75°	20	23	7	40	39	29
85°	7	4	3	7	9	7
90°	0	0	0	0	0	



TEST NUMBER: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1553.1	1554.8	1553.9	1553.9	1553.1	1553.9	1553.9	1555.6	1555.6	1553.9	1553.1
5°	1549.7	1551.4	1551.4	1549.7	1549.7	1553.9	1551.4	1553.1	1553.1	1552.3	1552.3
7.5°	1542.3	1542.3	1545.6	1543.1	1543.1	1545.6	1544.8	1546.4	1548.1	1548.9	1548.9
10°	1525.6	1527.3	1528.1	1528.1	1528.9	1531.4	1533.1	1536.4	1538.1	1539.8	1540.6
12.5°	1504.8	1507.3	1508.1	1507.3	1509.8	1513.1	1517.3	1521.4	1523.9	1527.3	1529.8
15°	1479.8	1479.8	1481.4	1483.9	1485.6	1490.6	1494.8	1499.8	1506.4	1510.6	1514.8
17.5°	1452.3	1453.9	1456.4	1456.4	1459.8	1468.1	1470.6	1478.1	1485.6	1489.8	1498.1
20°	1422.3	1423.9	1426.4	1428.1	1432.3	1438.9	1443.9	1450.6	1458.9	1466.4	1474.8
22.5°	1398.9	1395.6	1397.3	1398.9	1403.1	1409.0	1414.8	1423.1	1431.4	1438.9	1447.3
25°	1354.0	1354.8	1357.3	1358.9	1364.0	1369.0	1375.6	1385.6	1393.1	1401.5	1410.6
27.5°	1293.1	1294.0	1298.1	1298.1	1302.3	1310.6	1314.8	1323.1	1333.1	1341.5	1352.3
30°	1224.0	1225.6	1225.6	1229.0	1231.5	1235.6	1239.8	1248.1	1253.1	1260.6	1275.6
32.5°	1160.7	1162.3	1161.5	1160.7	1158.2	1157.3	1156.5	1158.2	1159.8	1162.3	1168.1
35°	1123.2	1119.0	1115.7	1109.8	1103.2	1094.8	1087.3	1077.3	1068.2	1060.7	1052.3
37.5°	1087.3	1086.5	1081.5	1073.2	1059.8	1044.8	1027.3	1005.7	984.0	960.7	938.2
40°	1037.3	1034.8	1030.7	1019.0	1004.0	985.7	962.4	935.7	900.7	864.9	828.2
42.5°	952.3	953.2	948.2	939.0	924.9	907.4	883.2	854.0	816.5	774.0	726.6
45°	853.2	853.2	851.5	844.0	834.0	819.9	801.5	777.4	740.7	697.4	646.6
47.5°	749.9	750.7	748.2	746.6	742.4	733.2	719.9	701.6	675.7	634.1	583.2
50°	644.9	644.9	649.1	648.2	648.2	644.9	639.1	628.2	605.7	572.4	524.9
52.5°	539.9	541.6	544.1	547.4	551.6	558.2	551.6	546.6	532.4	506.6	465.8
55°	431.6	433.3	437.4	443.3	448.3	454.9	456.6	456.6	449.1	431.6	400.8
57.5°	339.1	336.6	340.0	345.0	351.6	358.3	363.3	369.1	368.3	356.6	331.6
60°	255.0	255.8	258.3	263.3	268.3	274.1	280.8	285.8	288.3	282.5	266.6
62.5°	185.8	185.8	189.1	194.1	196.6	205.0	209.1	211.6	214.1	213.3	203.3
65°	130.0	131.6	133.3	135.8	138.3	143.3	145.8	150.8	152.5	153.3	145.8
67.5°	91.7	89.2	90.8	92.5	95.0	98.3	103.3	103.3	105.8	105.8	100.8
70°	58.3	58.3	59.2	61.7	63.3	64.2	65.8	67.5	70.0	69.2	69.2
72.5°	39.2	38.3	39.2	40.0	40.8	43.3	43.3	44.2	45.8	46.7	43.3
75°	20.0	20.8	22.5	21.7	24.2	22.5	23.3	25.8	25.0	23.3	23.3
77.5°	16.7	16.7	16.7	15.8	17.5	17.5	16.7	18.3	17.5	17.5	16.7
80°	11.7	12.5	11.7	10.8	11.7	10.8	10.8	10.8	10.8	10.8	10.0
82.5°	9.2	7.5	8.3	7.5	8.3	8.3	7.5	6.7	6.7	7.5	6.7
85°	6.7	5.0	5.8	5.8	5.0	5.0	5.0	5.0	5.0	4.2	4.2
87.5°	4.2	2.5	2.5	2.5	3.3	3.3	3.3	2.5	3.3	3.3	1.7
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: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1554.8	1553.9	1555.6	1554.8	1554.8	1553.9	1554.8	1553.9	1555.6	1552.3	1553.1
5°	1554.8	1553.1	1553.9	1554.8	1555.6	1553.9	1553.9	1553.9	1555.6	1553.9	1554.8
7.5°	1551.4	1550.6	1553.1	1554.8	1553.9	1553.1	1554.8	1553.9	1555.6	1554.8	1556.4
10°	1544.8	1545.6	1547.3	1549.7	1550.6	1551.4	1553.1	1553.1	1555.6	1552.3	1553.9
12.5°	1534.8	1538.1	1542.3	1543.9	1547.3	1547.3	1548.9	1549.7	1551.4	1550.6	1553.1
15°	1522.3	1526.4	1531.4	1535.6	1539.8	1542.3	1544.8	1545.6	1548.1	1545.6	1546.4
17.5°	1507.3	1512.3	1519.8	1524.8	1531.4	1533.9	1537.3	1538.9	1541.4	1539.8	1540.6
20°	1486.4	1492.3	1500.6	1508.1	1512.3	1518.1	1522.3	1524.8	1526.4	1524.8	1525.6
22.5°	1457.3	1465.6	1476.4	1482.3	1490.6	1495.6	1496.4	1502.3	1506.4	1502.3	1503.9
25°	1423.1	1431.4	1439.8	1452.3	1459.8	1465.6	1471.4	1472.3	1476.4	1475.6	1474.8
27.5°	1366.4	1377.3	1391.4	1401.5	1411.4	1420.6	1427.3	1428.9	1433.1	1431.4	1432.3
30°	1289.0	1300.6	1314.0	1329.8	1344.0	1353.1	1361.5	1367.3	1371.4	1369.0	1368.1
32.5°	1179.0	1190.7	1204.8	1220.6	1237.3	1250.6	1260.6	1268.1	1273.1	1271.5	1267.3
35°	1053.2	1056.5	1065.7	1078.2	1092.3	1106.5	1115.7	1124.0	1129.8	1131.5	1131.5
37.5°	924.0	913.2	906.5	906.5	914.9	920.7	929.0	934.0	943.2	946.5	949.0
40°	799.0	774.0	750.7	733.2	721.6	720.7	720.7	723.2	731.6	742.4	752.4
42.5°	687.4	647.4	611.6	579.1	555.8	542.4	536.6	537.4	544.1	554.1	570.7
45°	598.2	548.3	503.3	464.1	432.4	411.6	401.6	400.8	405.8	417.4	435.8
47.5°	529.1	475.8	424.9	379.9	345.8	323.3	311.6	308.3	311.6	322.4	344.1
50°	471.6	416.6	364.1	317.4	280.8	257.5	246.6	242.5	246.6	255.8	277.4
52.5°	418.3	361.6	312.5	267.5	228.3	208.3	196.6	194.1	196.6	207.5	225.0
55°	356.6	308.3	260.0	215.0	180.8	160.8	151.6	149.2	151.6	161.6	180.0
57.5°	295.8	254.1	211.6	170.8	141.6	124.1	115.8	112.5	118.3	125.0	146.6
60°	239.1	205.8	170.0	134.1	110.0	94.1	87.5	86.6	88.3	96.7	111.6
62.5°	187.5	160.0	131.6	102.5	82.5	75.8	67.5	66.7	68.3	73.3	85.0
65°	135.0	117.5	95.8	75.0	59.2	50.0	46.7	47.5	49.2	52.5	63.3
67.5°	94.1	81.7	66.7	52.5	40.8	36.7	33.3	32.5	33.3	39.2	45.0
70°	63.3	55.8	45.0	40.0	28.3	22.5	23.3	20.8	24.2	24.2	29.2
72.5°	41.7	36.7	30.0	23.3	20.0	15.8	15.8	15.0	16.7	17.5	21.7
75°	21.7	16.7	16.7	11.7	8.3	4.2	7.5	6.7	5.8	6.7	8.3
77.5°	15.0	12.5	11.7	9.2	8.3	6.7	6.7	6.7	6.7	7.5	8.3
80°	9.2	9.2	6.7	5.8	5.0	4.2	5.0	5.0	5.0	5.0	5.8
82.5°	5.8	5.0	5.0	4.2	4.2	3.3	3.3	3.3	3.3	3.3	5.0
85°	5.0	3.3	3.3	2.5	3.3	5.8	2.5	3.3	3.3	3.3	2.5
87.5°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	2.5	2.5	4.2	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: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1554.8	1555.6	1555.6	1554.8	1554.8	1553.1	1556.4	1553.9	1554.8	1558.1	1555.6
5°	1556.4	1557.3	1557.3	1556.4	1556.4	1556.4	1557.3	1557.3	1556.4	1555.6	1557.3
7.5°	1559.8	1558.9	1558.9	1557.3	1557.3	1555.6	1557.3	1554.8	1556.4	1554.8	1557.3
10°	1555.6	1556.4	1555.6	1554.8	1554.8	1553.9	1553.9	1551.4	1552.3	1549.7	1551.4
12.5°	1553.1	1552.3	1552.3	1550.6	1548.9	1547.3	1546.4	1543.9	1543.9	1538.1	1540.6
15°	1546.4	1547.3	1544.8	1541.4	1539.8	1535.6	1533.9	1530.6	1527.3	1523.1	1523.9
17.5°	1540.6	1538.1	1534.8	1531.4	1524.8	1521.4	1518.1	1513.1	1511.4	1506.4	1504.8
20°	1523.1	1521.4	1517.3	1511.4	1507.3	1499.8	1496.4	1491.4	1487.3	1482.3	1479.8
22.5°	1500.6	1498.9	1493.9	1488.1	1481.4	1478.1	1474.8	1465.6	1461.4	1456.4	1455.6
25°	1472.3	1469.8	1464.8	1458.1	1454.8	1445.6	1442.3	1435.6	1434.0	1428.9	1428.1
27.5°	1428.9	1425.6	1419.8	1411.4	1405.6	1399.8	1396.5	1391.4	1389.8	1384.8	1384.0
30°	1364.0	1359.8	1348.1	1344.8	1334.8	1329.0	1329.0	1322.3	1323.1	1319.8	1319.8
32.5°	1261.5	1254.8	1245.6	1239.0	1232.3	1229.0	1229.0	1226.5	1228.1	1228.1	1229.8
35°	1125.7	1116.5	1111.5	1107.3	1107.3	1110.7	1120.7	1123.2	1128.2	1132.3	1135.7
37.5°	951.5	950.7	956.5	961.5	974.0	988.2	1005.7	1020.7	1034.8	1044.8	1054.8
40°	763.2	784.0	800.7	824.0	843.2	870.7	902.4	928.2	952.3	969.9	988.2
42.5°	595.7	622.4	657.4	691.6	725.7	763.2	804.9	840.7	872.4	896.5	915.7
45°	464.1	500.7	543.3	586.6	630.7	677.4	720.7	757.4	790.7	815.7	834.9
47.5°	374.1	414.1	462.4	509.9	559.9	609.1	657.4	689.1	716.5	736.5	754.1
50°	309.1	351.6	402.4	456.6	506.6	555.8	597.4	628.2	650.7	668.2	679.1
52.5°	258.3	303.3	357.4	411.6	461.6	506.6	544.1	567.4	585.7	598.2	608.2
55°	213.3	256.6	307.5	358.3	407.4	449.9	480.7	498.3	512.4	519.9	525.7
57.5°	174.1	214.1	260.8	307.5	349.9	384.9	409.1	426.6	433.3	439.1	438.3
60°	136.7	174.1	216.6	256.6	293.3	321.6	339.1	349.1	354.1	356.6	354.9
62.5°	107.5	141.6	174.1	209.1	235.8	260.0	276.6	276.6	279.1	280.0	282.5
65°	80.0	105.8	134.1	160.0	181.6	197.5	206.6	209.1	212.5	211.6	210.0
67.5°	59.2	78.3	99.1	118.3	133.3	143.3	150.0	155.8	155.0	153.3	152.5
70°	40.8	53.3	71.7	83.3	94.1	104.2	105.8	106.6	107.5	108.3	106.6
72.5°	28.3	37.5	47.5	57.5	64.2	68.3	72.5	73.3	73.3	73.3	72.5
75°	14.2	19.2	28.3	32.5	38.3	40.0	43.3	43.3	45.8	42.5	41.7
77.5°	12.5	15.0	20.0	23.3	25.8	28.3	29.2	31.7	30.8	29.2	30.0
80°	7.5	9.2	12.5	14.2	17.5	18.3	19.2	20.0	19.2	20.0	20.0
82.5°	5.8	6.7	8.3	8.3	10.8	10.8	11.7	11.7	12.5	12.5	12.5
85°	3.3	5.8	5.0	10.0	6.7	6.7	8.3	10.0	8.3	8.3	10.0
87.5°	3.3	3.3	2.5	3.3	3.3	3.3	4.2	5.0	5.0	5.8	5.0
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: P244593

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1552.3	1552.3	1552.3	1552.3
2.5°	1554.8	1556.4	1553.9	1553.1
5°	1557.3	1557.3	1555.6	1555.6
7.5°	1557.3	1557.3	1554.8	1553.1
10°	1550.6	1550.6	1548.1	1546.4
12.5°	1538.1	1538.1	1537.3	1534.8
15°	1522.3	1522.3	1518.9	1516.4
17.5°	1500.6	1502.3	1498.1	1498.1
20°	1477.3	1476.4	1473.1	1471.4
22.5°	1453.1	1451.4	1450.6	1445.6
25°	1427.3	1425.6	1423.1	1420.6
27.5°	1383.1	1382.3	1379.8	1376.5
30°	1315.6	1314.8	1311.5	1311.5
32.5°	1228.1	1227.3	1224.0	1224.8
35°	1137.3	1140.7	1139.0	1135.7
37.5°	1061.5	1064.0	1065.7	1064.0
40°	998.2	1005.7	1006.5	1008.2
42.5°	930.7	940.7	944.0	945.7
45°	849.9	859.0	866.5	864.9
47.5°	767.4	774.0	780.7	775.7
50°	688.2	692.4	694.9	694.9
52.5°	613.2	613.2	612.4	613.2
55°	527.4	527.4	524.1	525.7
57.5°	437.4	439.1	436.6	432.4
60°	354.1	349.9	348.3	345.8
62.5°	275.8	275.8	270.0	277.4
65°	206.6	204.1	201.6	200.8
67.5°	150.0	149.2	146.6	145.8
70°	105.8	102.5	101.7	100.0
72.5°	70.8	70.8	69.2	69.2
75°	43.3	39.2	38.3	39.2
77.5°	30.0	29.2	29.2	28.3
80°	20.0	19.2	20.8	18.3
82.5°	12.5	13.3	12.5	13.3
85°	8.3	10.0	9.2	9.2
87.5°	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)