

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: P244599

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244599  
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 EC8B30830 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3016.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 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

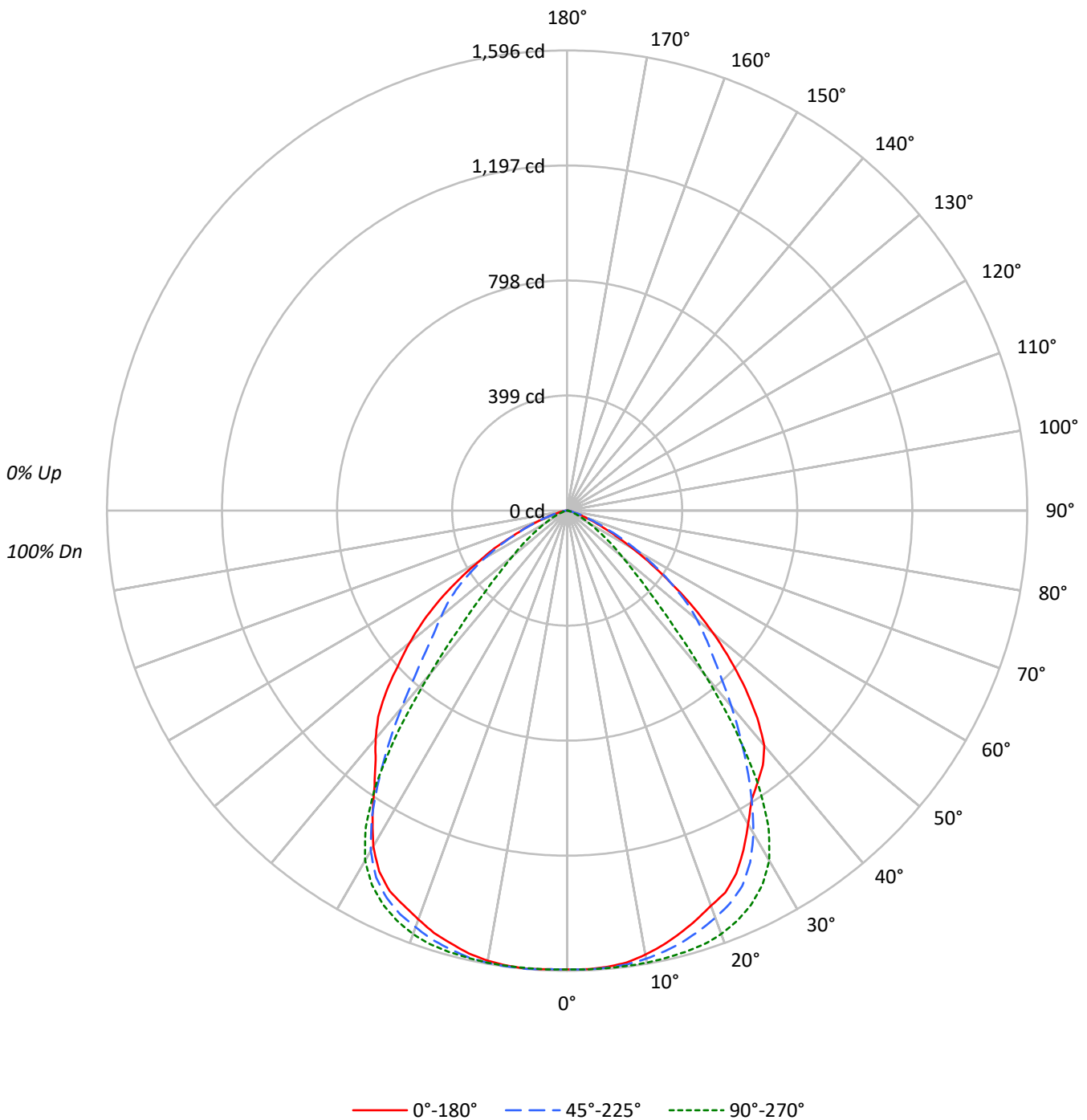
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	49070	49070	49070
5°	49177	49310	49363
10°	48972	49855	49639
15°	48429	50584	49629
20°	47848	51294	49502
25°	47225	51353	49549
30°	44679	49910	47873
35°	43344	43377	43825
40°	42806	29844	41602
45°	38145	17919	38664
50°	31715	11926	34176
55°	23789	8220	28977
60°	16121	5477	21863
65°	9726	3553	15016
70°	5392	1929	9241
75°	2442	810	4778
80°	2131	906	3338
85°	2406	1203	3326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	5.0
10°-20°	441.0	14.6
20°-30°	669.4	22.2
30°-40°	703.1	23.3
40°-50°	527.1	17.5
50°-60°	338.2	11.2
60°-70°	144.7	4.8
70°-80°	34.2	1.1
80°-90°	6.4	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°	1262.3	41.9
0°-40°	1965.4	65.2
0°-60°	2830.8	93.9
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1591	1591	1591	1591	1591	
5°	1589	1591	1593	1596	1595	151
15°	1517	1549	1584	1574	1555	428
25°	1388	1437	1509	1482	1456	634
35°	1151	1087	1152	1139	1164	723
45°	875	715	411	694	887	670
55°	442	442	153	461	539	401
65°	133	157	49	202	206	142
75°	20	24	7	41	40	30
85°	7	4	3	7	9	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°	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3
2.5°	1592.2	1593.9	1593.0	1593.0	1592.2	1593.0	1593.0	1594.7	1594.7	1593.0	1592.2
5°	1588.7	1590.4	1590.4	1588.7	1588.7	1593.0	1590.4	1592.2	1592.2	1591.3	1591.3
7.5°	1581.1	1581.1	1584.5	1581.9	1581.9	1584.5	1583.6	1585.3	1587.0	1587.9	1587.9
10°	1564.0	1565.7	1566.5	1566.5	1567.4	1569.9	1571.7	1575.1	1576.8	1578.5	1579.3
12.5°	1542.6	1545.2	1546.0	1545.2	1547.7	1551.2	1555.4	1559.7	1562.3	1565.7	1568.2
15°	1517.0	1517.0	1518.7	1521.3	1523.0	1528.1	1532.4	1537.5	1544.3	1548.6	1552.9
17.5°	1488.8	1490.5	1493.1	1493.1	1496.5	1505.0	1507.6	1515.3	1523.0	1527.2	1535.8
20°	1458.1	1459.8	1462.3	1464.0	1468.3	1475.1	1480.3	1487.1	1495.6	1503.3	1511.9
22.5°	1434.1	1430.7	1432.4	1434.1	1438.4	1444.4	1450.4	1458.9	1467.4	1475.1	1483.7
25°	1388.0	1388.9	1391.4	1393.1	1398.3	1403.4	1410.2	1420.5	1428.2	1436.7	1446.1
27.5°	1325.7	1326.5	1330.8	1330.8	1335.0	1343.6	1347.9	1356.4	1366.7	1375.2	1386.3
30°	1254.8	1256.5	1256.5	1259.9	1262.4	1266.7	1271.0	1279.5	1284.7	1292.3	1307.7
32.5°	1189.9	1191.5	1190.7	1189.9	1187.3	1186.4	1185.6	1187.3	1189.0	1191.5	1197.5
35°	1151.4	1147.1	1143.7	1137.8	1130.9	1122.4	1114.7	1104.4	1095.0	1087.3	1078.8
37.5°	1114.7	1113.8	1108.7	1100.2	1086.5	1071.1	1053.2	1031.0	1008.8	984.8	961.8
40°	1063.4	1060.9	1056.6	1044.6	1029.3	1010.5	986.6	959.2	923.3	886.6	849.0
42.5°	976.3	977.2	972.0	962.6	948.1	930.2	905.4	875.5	837.1	793.5	744.8
45°	874.7	874.7	872.9	865.3	855.0	840.5	821.7	796.9	759.4	714.9	662.8
47.5°	768.7	769.6	767.0	765.3	761.1	751.7	738.0	719.2	692.7	650.0	597.9
50°	661.1	661.1	665.4	664.5	664.5	661.1	655.2	644.0	621.0	586.8	538.1
52.5°	553.5	555.2	557.8	561.2	565.4	572.3	565.4	560.3	545.8	519.3	477.5
55°	442.5	444.2	448.4	454.4	459.5	466.4	468.1	468.1	460.4	442.5	410.9
57.5°	347.6	345.1	348.5	353.6	360.5	367.3	372.4	378.4	377.5	365.6	340.0
60°	261.4	262.2	264.8	269.9	275.0	281.0	287.9	293.0	295.5	289.6	273.3
62.5°	190.5	190.5	193.9	199.0	201.6	210.1	214.4	217.0	219.5	218.7	208.4
65°	133.3	135.0	136.7	139.2	141.8	146.9	149.5	154.6	156.3	157.2	149.5
67.5°	94.0	91.4	93.1	94.8	97.4	100.8	105.9	105.9	108.5	108.5	103.4
70°	59.8	59.8	60.7	63.2	64.9	65.8	67.5	69.2	71.7	70.9	70.9
72.5°	40.1	39.3	40.1	41.0	41.9	44.4	44.4	45.3	47.0	47.8	44.4
75°	20.5	21.4	23.1	22.2	24.8	23.1	23.9	26.5	25.6	23.9	23.9
77.5°	17.1	17.1	17.1	16.2	17.9	17.9	17.1	18.8	17.9	17.9	17.1
80°	12.0	12.8	12.0	11.1	12.0	11.1	11.1	11.1	11.1	11.1	10.2
82.5°	9.4	7.7	8.5	7.7	8.5	8.5	7.7	6.8	6.8	7.7	6.8
85°	6.8	5.1	6.0	6.0	5.1	5.1	5.1	5.1	5.1	4.3	4.3
87.5°	4.3	2.6	2.6	2.6	3.4	3.4	3.4	2.6	3.4	3.4	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3
2.5°	1593.9	1593.0	1594.7	1593.9	1593.9	1593.0	1593.9	1593.0	1594.7	1591.3	1592.2
5°	1593.9	1592.2	1593.0	1593.9	1594.7	1593.0	1593.0	1593.0	1594.7	1593.0	1593.9
7.5°	1590.4	1589.6	1592.2	1593.9	1593.0	1592.2	1593.9	1593.0	1594.7	1593.9	1595.6
10°	1583.6	1584.5	1586.2	1588.7	1589.6	1590.4	1592.2	1592.2	1594.7	1591.3	1593.0
12.5°	1573.4	1576.8	1581.1	1582.8	1586.2	1586.2	1587.9	1588.7	1590.4	1589.6	1592.2
15°	1560.6	1564.8	1569.9	1574.2	1578.5	1581.1	1583.6	1584.5	1587.0	1584.5	1585.3
17.5°	1545.2	1550.3	1558.0	1563.1	1569.9	1572.5	1575.9	1577.6	1580.2	1578.5	1579.3
20°	1523.8	1529.8	1538.3	1546.0	1550.3	1556.3	1560.6	1563.1	1564.8	1563.1	1564.0
22.5°	1493.9	1502.5	1513.6	1519.6	1528.1	1533.2	1534.1	1540.1	1544.3	1540.1	1541.8
25°	1458.9	1467.4	1476.0	1488.8	1496.5	1502.5	1508.5	1509.3	1513.6	1512.7	1511.9
27.5°	1400.8	1411.9	1426.4	1436.7	1446.9	1456.3	1463.2	1464.9	1469.2	1467.4	1468.3
30°	1321.4	1333.4	1347.0	1363.2	1377.8	1387.2	1395.7	1401.7	1405.9	1403.4	1402.5
32.5°	1208.6	1220.6	1235.1	1251.3	1268.4	1282.1	1292.3	1300.0	1305.2	1303.4	1299.2
35°	1079.7	1083.1	1092.5	1105.3	1119.8	1134.3	1143.7	1152.3	1158.2	1159.9	1159.9
37.5°	947.3	936.2	929.3	929.3	937.9	943.8	952.4	957.5	966.9	970.3	972.9
40°	819.1	793.5	769.6	751.7	739.7	738.9	738.9	741.4	750.0	761.1	771.3
42.5°	704.7	663.7	627.0	593.6	569.7	556.1	550.1	550.9	557.8	568.0	585.1
45°	613.3	562.0	515.9	475.8	443.3	421.9	411.7	410.9	416.0	427.9	446.7
47.5°	542.4	487.7	435.6	389.5	354.5	331.4	319.5	316.0	319.5	330.6	352.8
50°	483.5	427.1	373.3	325.4	287.9	263.9	252.8	248.6	252.8	262.2	284.4
52.5°	428.8	370.7	320.3	274.2	234.0	213.5	201.6	199.0	201.6	212.7	230.6
55°	365.6	316.0	266.5	220.4	185.4	164.9	155.5	152.9	155.5	165.7	184.5
57.5°	303.2	260.5	217.0	175.1	145.2	127.3	118.7	115.3	121.3	128.1	150.3
60°	245.1	211.0	174.2	137.5	112.8	96.5	89.7	88.8	90.5	99.1	114.4
62.5°	192.2	164.0	135.0	105.1	84.6	77.7	69.2	68.3	70.0	75.2	87.1
65°	138.4	120.4	98.2	76.9	60.7	51.2	47.8	48.7	50.4	53.8	64.9
67.5°	96.5	83.7	68.3	53.8	41.9	37.6	34.2	33.3	34.2	40.1	46.1
70°	64.9	57.2	46.1	41.0	29.1	23.1	23.9	21.4	24.8	24.8	29.9
72.5°	42.7	37.6	30.7	23.9	20.5	16.2	16.2	15.4	17.1	17.9	22.2
75°	22.2	17.1	17.1	12.0	8.5	4.3	7.7	6.8	6.0	6.8	8.5
77.5°	15.4	12.8	12.0	9.4	8.5	6.8	6.8	6.8	6.8	7.7	8.5
80°	9.4	9.4	6.8	6.0	5.1	4.3	5.1	5.1	5.1	5.1	6.0
82.5°	6.0	5.1	5.1	4.3	4.3	3.4	3.4	3.4	3.4	3.4	5.1
85°	5.1	3.4	3.4	2.6	3.4	6.0	2.6	3.4	3.4	3.4	2.6
87.5°	1.7	2.6	2.6	2.6	1.7	0.9	1.7	2.6	2.6	4.3	3.4
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°	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3	1591.3
2.5°	1593.9	1594.7	1594.7	1593.9	1593.9	1592.2	1595.6	1593.0	1593.9	1597.3	1594.7
5°	1595.6	1596.4	1596.4	1595.6	1595.6	1595.6	1596.4	1596.4	1595.6	1594.7	1596.4
7.5°	1599.0	1598.1	1598.1	1596.4	1596.4	1594.7	1596.4	1593.9	1595.6	1593.9	1596.4
10°	1594.7	1595.6	1594.7	1593.9	1593.9	1593.0	1593.0	1590.4	1591.3	1588.7	1590.4
12.5°	1592.2	1591.3	1591.3	1589.6	1587.9	1586.2	1585.3	1582.8	1582.8	1576.8	1579.3
15°	1585.3	1586.2	1583.6	1580.2	1578.5	1574.2	1572.5	1569.1	1565.7	1561.4	1562.3
17.5°	1579.3	1576.8	1573.4	1569.9	1563.1	1559.7	1556.3	1551.2	1549.4	1544.3	1542.6
20°	1561.4	1559.7	1555.4	1549.4	1545.2	1537.5	1534.1	1529.0	1524.7	1519.6	1517.0
22.5°	1538.3	1536.6	1531.5	1525.5	1518.7	1515.3	1511.9	1502.5	1498.2	1493.1	1492.2
25°	1509.3	1506.7	1501.6	1494.8	1491.4	1482.0	1478.5	1471.7	1470.0	1464.9	1464.0
27.5°	1464.9	1461.5	1455.5	1446.9	1441.0	1435.0	1431.6	1426.4	1424.7	1419.6	1418.8
30°	1398.3	1394.0	1382.0	1378.6	1368.4	1362.4	1362.4	1355.5	1356.4	1353.0	1353.0
32.5°	1293.2	1286.4	1277.0	1270.1	1263.3	1259.9	1259.9	1257.3	1259.0	1259.0	1260.7
35°	1154.0	1144.6	1139.4	1135.2	1135.2	1138.6	1148.8	1151.4	1156.5	1160.8	1164.2
37.5°	975.4	974.6	980.6	985.7	998.5	1013.0	1031.0	1046.4	1060.9	1071.1	1081.4
40°	782.4	803.8	820.8	844.8	864.4	892.6	925.1	951.5	976.3	994.3	1013.0
42.5°	610.7	638.1	673.9	708.9	744.0	782.4	825.1	861.9	894.3	919.1	938.7
45°	475.8	513.3	556.9	601.3	646.6	694.4	738.9	776.4	810.6	836.2	855.9
47.5°	383.5	424.5	474.1	522.7	574.0	624.4	673.9	706.4	734.6	755.1	773.0
50°	316.9	360.5	412.6	468.1	519.3	569.7	612.4	644.0	667.1	685.0	696.1
52.5°	264.8	310.9	366.4	421.9	473.2	519.3	557.8	581.7	600.5	613.3	623.5
55°	218.7	263.1	315.2	367.3	417.7	461.2	492.8	510.8	525.3	533.0	539.0
57.5°	178.5	219.5	267.4	315.2	358.7	394.6	419.4	437.3	444.2	450.1	449.3
60°	140.1	178.5	222.1	263.1	300.7	329.7	347.6	357.9	363.0	365.6	363.9
62.5°	110.2	145.2	178.5	214.4	241.7	266.5	283.6	283.6	286.1	287.0	289.6
65°	82.0	108.5	137.5	164.0	186.2	202.4	211.8	214.4	217.8	217.0	215.2
67.5°	60.7	80.3	101.6	121.3	136.7	146.9	153.7	159.7	158.9	157.2	156.3
70°	41.9	54.7	73.5	85.4	96.5	106.8	108.5	109.3	110.2	111.0	109.3
72.5°	29.1	38.4	48.7	58.9	65.8	70.0	74.3	75.2	75.2	75.2	74.3
75°	14.5	19.6	29.1	33.3	39.3	41.0	44.4	44.4	47.0	43.6	42.7
77.5°	12.8	15.4	20.5	23.9	26.5	29.1	29.9	32.5	31.6	29.9	30.7
80°	7.7	9.4	12.8	14.5	17.9	18.8	19.6	20.5	19.6	20.5	20.5
82.5°	6.0	6.8	8.5	8.5	11.1	11.1	12.0	12.0	12.8	12.8	12.8
85°	3.4	6.0	5.1	10.2	6.8	6.8	8.5	10.2	8.5	8.5	10.2
87.5°	3.4	3.4	2.6	3.4	3.4	3.4	4.3	5.1	5.1	6.0	5.1
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: P244599

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1591.3	1591.3	1591.3	1591.3
2.5°	1593.9	1595.6	1593.0	1592.2
5°	1596.4	1596.4	1594.7	1594.7
7.5°	1596.4	1596.4	1593.9	1592.2
10°	1589.6	1589.6	1587.0	1585.3
12.5°	1576.8	1576.8	1575.9	1573.4
15°	1560.6	1560.6	1557.1	1554.6
17.5°	1538.3	1540.1	1535.8	1535.8
20°	1514.4	1513.6	1510.2	1508.5
22.5°	1489.7	1488.0	1487.1	1482.0
25°	1463.2	1461.5	1458.9	1456.3
27.5°	1417.9	1417.1	1414.5	1411.1
30°	1348.7	1347.9	1344.5	1344.5
32.5°	1259.0	1258.2	1254.8	1255.6
35°	1165.9	1169.4	1167.6	1164.2
37.5°	1088.2	1090.8	1092.5	1090.8
40°	1023.3	1031.0	1031.8	1033.5
42.5°	954.1	964.3	967.8	969.5
45°	871.2	880.6	888.3	886.6
47.5°	786.7	793.5	800.3	795.2
50°	705.5	709.8	712.4	712.4
52.5°	628.7	628.7	627.8	628.7
55°	540.7	540.7	537.3	539.0
57.5°	448.4	450.1	447.6	443.3
60°	363.0	358.7	357.0	354.5
62.5°	282.7	282.7	276.8	284.4
65°	211.8	209.3	206.7	205.8
67.5°	153.7	152.9	150.3	149.5
70°	108.5	105.1	104.2	102.5
72.5°	72.6	72.6	70.9	70.9
75°	44.4	40.1	39.3	40.1
77.5°	30.7	29.9	29.9	29.1
80°	20.5	19.6	21.4	18.8
82.5°	12.8	13.7	12.8	13.7
85°	8.5	10.2	9.4	9.4
87.5°	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)