

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: P246051

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246051  
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 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3045.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

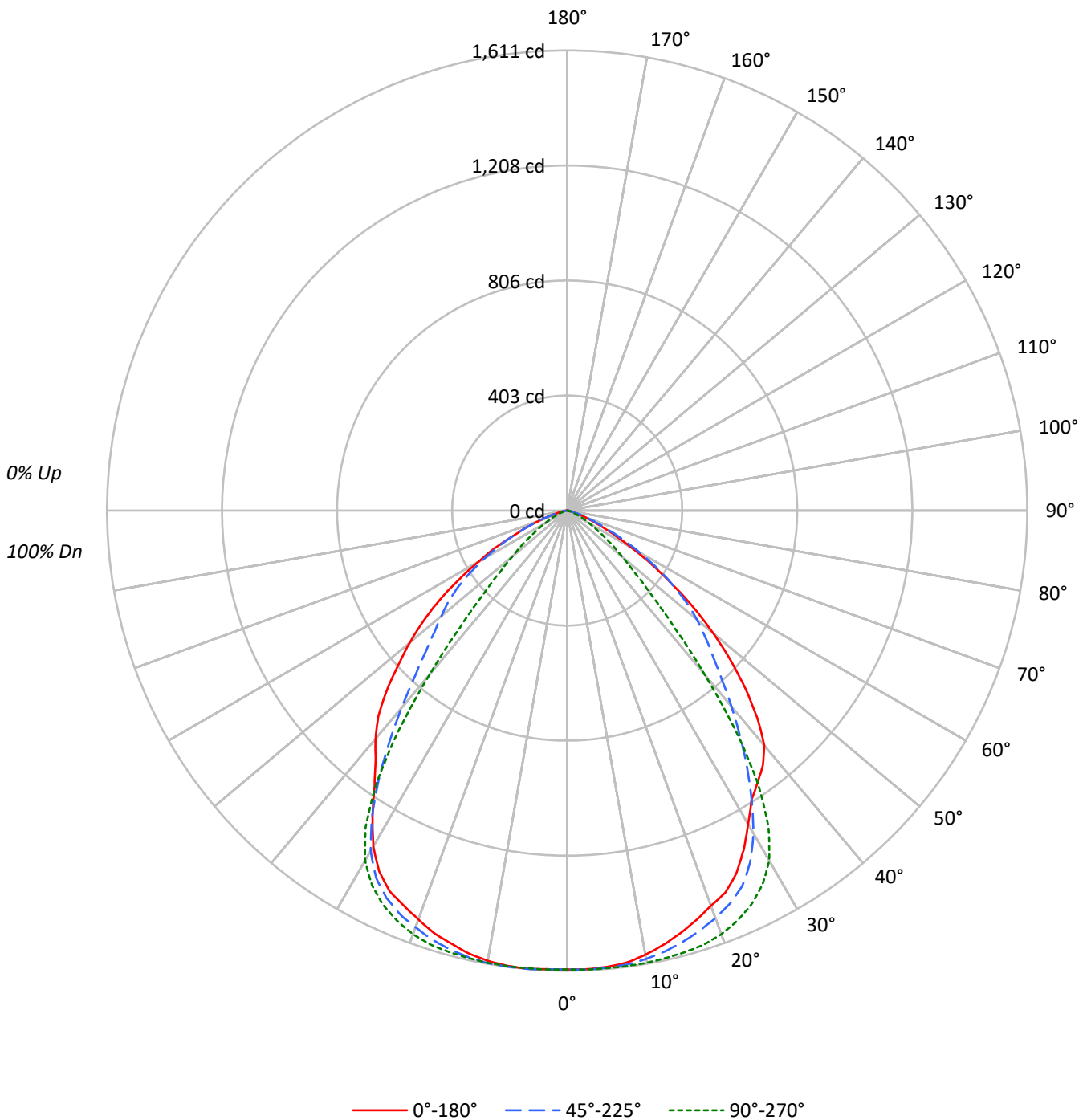
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**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	52	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°	49542	49542	49542
5°	49650	49783	49839
10°	49442	50334	50118
15°	48895	51069	50105
20°	48307	51786	49978
25°	47681	51846	50029
30°	45107	50391	48333
35°	43761	43791	44247
40°	43221	30130	42005
45°	38511	18089	39035
50°	32022	12041	34502
55°	24015	8301	29257
60°	16275	5532	22073
65°	9814	3590	15162
70°	5446	1947	9331
75°	2466	822	4825
80°	2149	923	3374
85°	2441	1203	3361



TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.3	5.0
10°-20°	445.3	14.6
20°-30°	675.9	22.2
30°-40°	709.9	23.3
40°-50°	532.2	17.5
50°-60°	341.5	11.2
60°-70°	146.1	4.8
70°-80°	34.5	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°	1274.5	41.9
0°-40°	1984.3	65.2
0°-60°	2858.0	93.9
0°-90°	3045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1607	1607	1607	1607	1607	
5°	1604	1607	1608	1611	1610	152
15°	1532	1564	1600	1589	1570	432
25°	1401	1450	1524	1496	1470	640
35°	1162	1098	1163	1150	1175	730
45°	883	722	415	701	895	676
55°	447	447	154	466	544	405
65°	134	159	49	204	208	144
75°	21	24	7	41	40	30
85°	7	4	3	7	10	7
90°	0	0	0	0	0	



TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1607.5	1609.2	1608.3	1608.3	1607.5	1608.3	1608.3	1610.1	1610.1	1608.3	1607.5
5°	1604.0	1605.7	1605.7	1604.0	1604.0	1608.3	1605.7	1607.5	1607.5	1606.6	1606.6
7.5°	1596.3	1596.3	1599.7	1597.1	1597.1	1599.7	1598.8	1600.6	1602.3	1603.2	1603.2
10°	1579.0	1580.7	1581.6	1581.6	1582.5	1585.0	1586.8	1590.2	1591.9	1593.7	1594.5
12.5°	1557.5	1560.0	1560.9	1560.0	1562.6	1566.1	1570.4	1574.7	1577.3	1580.7	1583.3
15°	1531.6	1531.6	1533.3	1535.9	1537.6	1542.8	1547.1	1552.3	1559.2	1563.5	1567.8
17.5°	1503.1	1504.9	1507.4	1507.4	1510.9	1519.5	1522.1	1529.9	1537.6	1541.9	1550.6
20°	1472.1	1473.8	1476.4	1478.1	1482.4	1489.3	1494.5	1501.4	1510.0	1517.8	1526.4
22.5°	1447.9	1444.5	1446.2	1447.9	1452.2	1458.3	1464.3	1472.9	1481.6	1489.3	1498.0
25°	1401.4	1402.2	1404.8	1406.5	1411.7	1416.9	1423.8	1434.1	1441.9	1450.5	1460.0
27.5°	1338.4	1339.3	1343.6	1343.6	1347.9	1356.5	1360.8	1369.4	1379.8	1388.4	1399.6
30°	1266.8	1268.5	1268.5	1272.0	1274.6	1278.9	1283.2	1291.8	1297.0	1304.8	1320.3
32.5°	1201.3	1203.0	1202.1	1201.3	1198.7	1197.8	1197.0	1198.7	1200.4	1203.0	1209.0
35°	1162.5	1158.2	1154.7	1148.7	1141.8	1133.2	1125.4	1115.1	1105.6	1097.8	1089.2
37.5°	1125.4	1124.5	1119.4	1110.7	1096.9	1081.4	1063.3	1040.9	1018.5	994.3	971.0
40°	1073.7	1071.1	1066.8	1054.7	1039.2	1020.2	996.0	968.4	932.2	895.1	857.2
42.5°	985.7	986.6	981.4	971.9	957.2	939.1	914.1	883.9	845.1	801.1	752.0
45°	883.1	883.1	881.3	873.6	863.2	848.6	829.6	804.6	766.7	721.8	669.2
47.5°	776.1	777.0	774.4	772.7	768.4	758.9	745.1	726.1	699.4	656.3	603.7
50°	667.5	667.5	671.8	670.9	670.9	667.5	661.4	650.2	626.9	592.5	543.3
52.5°	558.8	560.5	563.1	566.6	570.9	577.8	570.9	565.7	551.1	524.3	482.1
55°	446.7	448.4	452.7	458.8	464.0	470.9	472.6	472.6	464.8	446.7	414.8
57.5°	351.0	348.4	351.9	357.0	363.9	370.8	376.0	382.0	381.2	369.1	343.2
60°	263.9	264.8	267.3	272.5	277.7	283.7	290.6	295.8	298.4	292.4	276.0
62.5°	192.3	192.3	195.8	200.9	203.5	212.1	216.5	219.0	221.6	220.8	210.4
65°	134.5	136.2	138.0	140.6	143.1	148.3	150.9	156.1	157.8	158.7	150.9
67.5°	94.9	92.3	94.0	95.7	98.3	101.8	106.9	106.9	109.5	109.5	104.3
70°	60.4	60.4	61.2	63.8	65.5	66.4	68.1	69.8	72.4	71.6	71.6
72.5°	40.5	39.7	40.5	41.4	42.3	44.8	44.8	45.7	47.4	48.3	44.8
75°	20.7	21.6	23.3	22.4	25.0	23.3	24.1	26.7	25.9	24.1	24.1
77.5°	17.2	17.2	17.2	16.4	18.1	18.1	17.2	19.0	18.1	18.1	17.2
80°	12.1	12.9	12.1	11.2	12.1	11.2	11.2	11.2	11.2	11.2	10.3
82.5°	9.5	7.8	8.6	7.8	8.6	8.6	7.8	6.9	6.9	7.8	6.9
85°	6.9	5.2	6.0	6.0	5.2	5.2	5.2	5.2	5.2	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



TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1609.2	1608.3	1610.1	1609.2	1609.2	1608.3	1609.2	1608.3	1610.1	1606.6	1607.5
5°	1609.2	1607.5	1608.3	1609.2	1610.1	1608.3	1608.3	1608.3	1610.1	1608.3	1609.2
7.5°	1605.7	1604.9	1607.5	1609.2	1608.3	1607.5	1609.2	1608.3	1610.1	1609.2	1610.9
10°	1598.8	1599.7	1601.4	1604.0	1604.9	1605.7	1607.5	1607.5	1610.1	1606.6	1608.3
12.5°	1588.5	1591.9	1596.3	1598.0	1601.4	1601.4	1603.2	1604.0	1605.7	1604.9	1607.5
15°	1575.6	1579.9	1585.0	1589.4	1593.7	1596.3	1598.8	1599.7	1602.3	1599.7	1600.6
17.5°	1560.0	1565.2	1573.0	1578.1	1585.0	1587.6	1591.1	1592.8	1595.4	1593.7	1594.5
20°	1538.5	1544.5	1553.1	1560.9	1565.2	1571.2	1575.6	1578.1	1579.9	1578.1	1579.0
22.5°	1508.3	1516.9	1528.1	1534.2	1542.8	1548.0	1548.8	1554.9	1559.2	1554.9	1556.6
25°	1472.9	1481.6	1490.2	1503.1	1510.9	1516.9	1523.0	1523.8	1528.1	1527.3	1526.4
27.5°	1414.3	1425.5	1440.2	1450.5	1460.9	1470.4	1477.3	1479.0	1483.3	1481.6	1482.4
30°	1334.1	1346.2	1360.0	1376.3	1391.0	1400.5	1409.1	1415.2	1419.5	1416.9	1416.0
32.5°	1220.3	1232.3	1247.0	1263.4	1280.6	1294.4	1304.8	1312.5	1317.7	1316.0	1311.7
35°	1090.1	1093.5	1103.0	1115.9	1130.6	1145.2	1154.7	1163.3	1169.4	1171.1	1171.1
37.5°	956.4	945.2	938.3	938.3	946.9	952.9	961.5	966.7	976.2	979.7	982.2
40°	827.0	801.1	777.0	758.9	746.8	746.0	746.0	748.5	757.2	768.4	778.7
42.5°	711.5	670.1	633.0	599.4	575.2	561.4	555.4	556.2	563.1	573.5	590.7
45°	619.2	567.4	520.9	480.3	447.6	426.0	415.7	414.8	420.0	432.0	451.0
47.5°	547.6	492.4	439.8	393.2	357.9	334.6	322.5	319.1	322.5	333.7	356.2
50°	488.1	431.2	376.9	328.6	290.6	266.5	255.3	251.0	255.3	264.8	287.2
52.5°	432.9	374.3	323.4	276.8	236.3	215.6	203.5	200.9	203.5	214.7	232.8
55°	369.1	319.1	269.1	222.5	187.1	166.4	156.9	154.4	156.9	167.3	186.3
57.5°	306.2	263.0	219.0	176.8	146.6	128.5	119.9	116.4	122.4	129.3	151.8
60°	247.5	213.0	175.9	138.8	113.8	97.4	90.5	89.7	91.4	100.0	115.5
62.5°	194.0	165.6	136.2	106.1	85.4	78.5	69.8	69.0	70.7	75.9	88.0
65°	139.7	121.6	99.2	77.6	61.2	51.7	48.3	49.2	50.9	54.3	65.5
67.5°	97.4	84.5	69.0	54.3	42.3	37.9	34.5	33.6	34.5	40.5	46.6
70°	65.5	57.8	46.6	41.4	29.3	23.3	24.1	21.6	25.0	25.0	30.2
72.5°	43.1	37.9	31.0	24.1	20.7	16.4	16.4	15.5	17.2	18.1	22.4
75°	22.4	17.2	17.2	12.1	8.6	4.3	7.8	6.9	6.0	6.9	8.6
77.5°	15.5	12.9	12.1	9.5	8.6	6.9	6.9	6.9	6.9	7.8	8.6
80°	9.5	9.5	6.9	6.0	5.2	4.3	5.2	5.2	5.2	5.2	6.0
82.5°	6.0	5.2	5.2	4.3	4.3	3.4	3.4	3.4	3.4	3.4	5.2
85°	5.2	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



TEST NUMBER: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1609.2	1610.1	1610.1	1609.2	1609.2	1607.5	1610.9	1608.3	1609.2	1612.6	1610.1
5°	1610.9	1611.8	1611.8	1610.9	1610.9	1610.9	1611.8	1611.8	1610.9	1610.1	1611.8
7.5°	1614.4	1613.5	1613.5	1611.8	1611.8	1610.1	1611.8	1609.2	1610.9	1609.2	1611.8
10°	1610.1	1610.9	1610.1	1609.2	1609.2	1608.3	1608.3	1605.7	1606.6	1604.0	1605.7
12.5°	1607.5	1606.6	1606.6	1604.9	1603.2	1601.4	1600.6	1598.0	1598.0	1591.9	1594.5
15°	1600.6	1601.4	1598.8	1595.4	1593.7	1589.4	1587.6	1584.2	1580.7	1576.4	1577.3
17.5°	1594.5	1591.9	1588.5	1585.0	1578.1	1574.7	1571.2	1566.1	1564.3	1559.2	1557.5
20°	1576.4	1574.7	1570.4	1564.3	1560.0	1552.3	1548.8	1543.7	1539.3	1534.2	1531.6
22.5°	1553.1	1551.4	1546.2	1540.2	1533.3	1529.9	1526.4	1516.9	1512.6	1507.4	1506.6
25°	1523.8	1521.2	1516.1	1509.2	1505.7	1496.2	1492.8	1485.9	1484.2	1479.0	1478.1
27.5°	1479.0	1475.5	1469.5	1460.9	1454.8	1448.8	1445.3	1440.2	1438.4	1433.3	1432.4
30°	1411.7	1407.4	1395.3	1391.9	1381.5	1375.5	1375.5	1368.6	1369.4	1366.0	1366.0
32.5°	1305.6	1298.7	1289.2	1282.3	1275.4	1272.0	1272.0	1269.4	1271.1	1271.1	1272.9
35°	1165.1	1155.6	1150.4	1146.1	1146.1	1149.5	1159.9	1162.5	1167.7	1172.0	1175.4
37.5°	984.8	984.0	990.0	995.2	1008.1	1022.8	1040.9	1056.4	1071.1	1081.4	1091.8
40°	789.9	811.5	828.7	852.9	872.7	901.2	933.9	960.7	985.7	1003.8	1022.8
42.5°	616.6	644.2	680.4	715.8	751.1	789.9	833.1	870.1	902.9	927.9	947.7
45°	480.3	518.3	562.3	607.1	652.8	701.1	746.0	783.9	818.4	844.3	864.1
47.5°	387.2	428.6	478.6	527.8	579.5	630.4	680.4	713.2	741.6	762.3	780.5
50°	319.9	363.9	416.5	472.6	524.3	575.2	618.3	650.2	673.5	691.6	702.8
52.5°	267.3	313.9	370.0	426.0	477.7	524.3	563.1	587.3	606.3	619.2	629.5
55°	220.8	265.6	318.2	370.8	421.7	465.7	497.6	515.7	530.4	538.1	544.2
57.5°	180.2	221.6	269.9	318.2	362.2	398.4	423.4	441.5	448.4	454.5	453.6
60°	141.4	180.2	224.2	265.6	303.6	332.9	351.0	361.3	366.5	369.1	367.4
62.5°	111.2	146.6	180.2	216.5	244.1	269.1	286.3	286.3	288.9	289.8	292.4
65°	82.8	109.5	138.8	165.6	188.0	204.4	213.9	216.5	219.9	219.0	217.3
67.5°	61.2	81.1	102.6	122.4	138.0	148.3	155.2	161.3	160.4	158.7	157.8
70°	42.3	55.2	74.2	86.2	97.4	107.8	109.5	110.4	111.2	112.1	110.4
72.5°	29.3	38.8	49.2	59.5	66.4	70.7	75.0	75.9	75.9	75.9	75.0
75°	14.7	19.8	29.3	33.6	39.7	41.4	44.8	44.8	47.4	44.0	43.1
77.5°	12.9	15.5	20.7	24.1	26.7	29.3	30.2	32.8	31.9	30.2	31.0
80°	7.8	9.5	12.9	14.7	18.1	19.0	19.8	20.7	19.8	20.7	20.7
82.5°	6.0	6.9	8.6	8.6	11.2	11.2	12.1	12.1	12.9	12.9	12.9
85°	3.4	6.0	5.2	10.3	6.9	6.9	8.6	10.3	8.6	8.6	10.3
87.5°	3.4	3.4	2.6	3.4	3.4	3.4	4.3	5.2	5.2	6.0	5.2
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: P246051

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1606.6	1606.6	1606.6	1606.6
2.5°	1609.2	1610.9	1608.3	1607.5
5°	1611.8	1611.8	1610.1	1610.1
7.5°	1611.8	1611.8	1609.2	1607.5
10°	1604.9	1604.9	1602.3	1600.6
12.5°	1591.9	1591.9	1591.1	1588.5
15°	1575.6	1575.6	1572.1	1569.5
17.5°	1553.1	1554.9	1550.6	1550.6
20°	1529.0	1528.1	1524.7	1523.0
22.5°	1504.0	1502.3	1501.4	1496.2
25°	1477.3	1475.5	1472.9	1470.4
27.5°	1431.5	1430.7	1428.1	1424.6
30°	1361.7	1360.8	1357.4	1357.4
32.5°	1271.1	1270.3	1266.8	1267.7
35°	1177.1	1180.6	1178.9	1175.4
37.5°	1098.7	1101.3	1103.0	1101.3
40°	1033.1	1040.9	1041.8	1043.5
42.5°	963.3	973.6	977.1	978.8
45°	879.6	889.1	896.9	895.1
47.5°	794.2	801.1	808.0	802.9
50°	712.3	716.6	719.2	719.2
52.5°	634.7	634.7	633.8	634.7
55°	545.9	545.9	542.4	544.2
57.5°	452.7	454.5	451.9	447.6
60°	366.5	362.2	360.5	357.9
62.5°	285.5	285.5	279.4	287.2
65°	213.9	211.3	208.7	207.8
67.5°	155.2	154.4	151.8	150.9
70°	109.5	106.1	105.2	103.5
72.5°	73.3	73.3	71.6	71.6
75°	44.8	40.5	39.7	40.5
77.5°	31.0	30.2	30.2	29.3
80°	20.7	19.8	21.6	19.0
82.5°	12.9	13.8	12.9	13.8
85°	8.6	10.3	9.5	9.5
87.5°	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)