

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: P246183

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246183  
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 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2982.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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

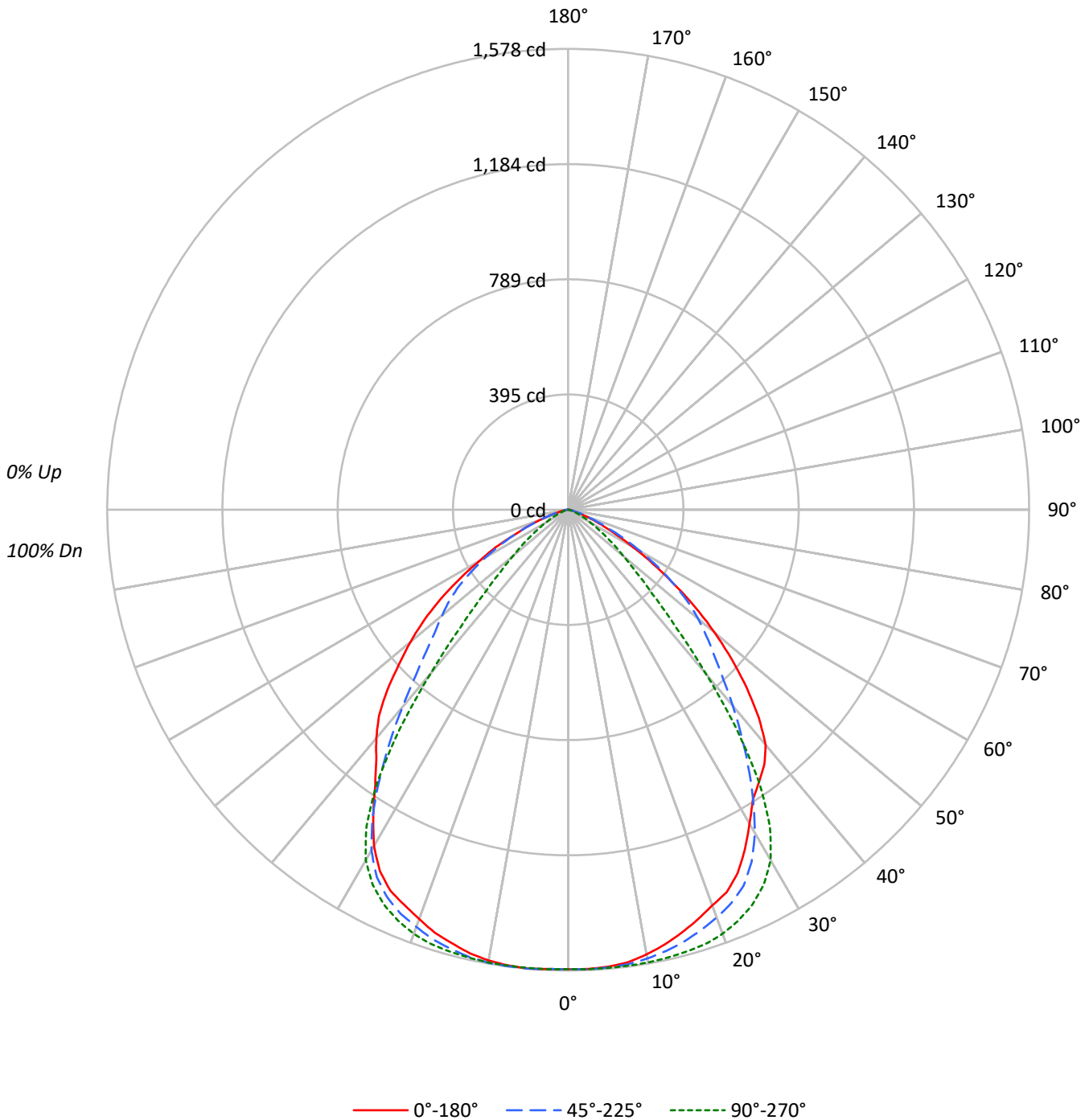
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	48518	48518	48518
5°	48623	48756	48808
10°	48418	49291	49082
15°	47883	50012	49071
20°	47307	50716	48941
25°	46695	50774	48991
30°	44174	49347	47332
35°	42854	42888	43332
40°	42323	29506	41136
45°	37713	17714	38228
50°	31360	11792	33787
55°	23521	8129	28649
60°	15936	5415	21616
65°	9617	3510	14848
70°	5328	1902	9133
75°	2419	810	4730
80°	2095	906	3303
85°	2406	1203	3290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	5.0
10°-20°	436.1	14.6
20°-30°	661.9	22.2
30°-40°	695.2	23.3
40°-50°	521.2	17.5
50°-60°	334.4	11.2
60°-70°	143.1	4.8
70°-80°	33.8	1.1
80°-90°	6.3	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°	1248.1	41.9
0°-40°	1943.3	65.2
0°-60°	2798.9	93.9
0°-90°	2982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1573	1573	1573	1573	1573	
5°	1571	1573	1575	1578	1577	149
15°	1500	1531	1567	1556	1537	423
25°	1372	1420	1492	1465	1440	627
35°	1138	1075	1139	1126	1151	714
45°	865	707	406	687	877	662
55°	438	438	151	456	533	397
65°	132	155	48	200	204	141
75°	20	24	7	40	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°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1574.2	1575.9	1575.1	1575.1	1574.2	1575.1	1575.1	1576.8	1576.8	1575.1	1574.2
5°	1570.8	1572.5	1572.5	1570.8	1570.8	1575.1	1572.5	1574.2	1574.2	1573.4	1573.4
7.5°	1563.2	1563.2	1566.6	1564.1	1564.1	1566.6	1565.8	1567.5	1569.1	1570.0	1570.0
10°	1546.3	1548.0	1548.9	1548.9	1549.7	1552.2	1553.9	1557.3	1559.0	1560.7	1561.5
12.5°	1525.2	1527.8	1528.6	1527.8	1530.3	1533.7	1537.9	1542.1	1544.7	1548.0	1550.6
15°	1499.9	1499.9	1501.6	1504.1	1505.8	1510.9	1515.1	1520.2	1526.9	1531.1	1535.4
17.5°	1472.0	1473.7	1476.2	1476.2	1479.6	1488.1	1490.6	1498.2	1505.8	1510.0	1518.5
20°	1441.6	1443.3	1445.8	1447.5	1451.8	1458.5	1463.6	1470.3	1478.8	1486.4	1494.8
22.5°	1418.0	1414.6	1416.3	1418.0	1422.2	1428.1	1434.0	1442.5	1450.9	1458.5	1467.0
25°	1372.4	1373.2	1375.7	1377.4	1382.5	1387.6	1394.3	1404.5	1412.1	1420.5	1429.8
27.5°	1310.7	1311.6	1315.8	1315.8	1320.0	1328.4	1332.7	1341.1	1351.3	1359.7	1370.7
30°	1240.6	1242.3	1242.3	1245.7	1248.2	1252.4	1256.7	1265.1	1270.2	1277.8	1293.0
32.5°	1176.4	1178.1	1177.3	1176.4	1173.9	1173.1	1172.2	1173.9	1175.6	1178.1	1184.0
35°	1138.4	1134.2	1130.8	1124.9	1118.2	1109.7	1102.1	1092.0	1082.7	1075.1	1066.7
37.5°	1102.1	1101.3	1096.2	1087.8	1074.2	1059.0	1041.3	1019.4	997.4	973.7	951.0
40°	1051.4	1048.9	1044.7	1032.9	1017.7	999.1	975.4	948.4	912.9	876.6	839.5
42.5°	965.3	966.1	961.1	951.8	937.4	919.7	895.2	865.6	827.6	784.6	736.4
45°	864.8	864.8	863.1	855.5	845.4	831.0	812.4	788.0	750.8	706.9	655.3
47.5°	760.1	760.9	758.4	756.7	752.5	743.2	729.7	711.1	684.9	642.7	591.2
50°	653.7	653.7	657.9	657.0	657.0	653.7	647.8	636.8	614.0	580.2	532.1
52.5°	547.3	548.9	551.5	554.9	559.1	565.8	559.1	554.0	539.6	513.5	472.1
55°	437.5	439.2	443.4	449.3	454.4	461.1	462.8	462.8	455.2	437.5	406.2
57.5°	343.7	341.2	344.6	349.6	356.4	363.2	368.2	374.1	373.3	361.5	336.1
60°	258.4	259.3	261.8	266.9	271.9	277.9	284.6	289.7	292.2	286.3	270.2
62.5°	188.3	188.3	191.7	196.8	199.3	207.8	212.0	214.5	217.0	216.2	206.1
65°	131.8	133.4	135.1	137.7	140.2	145.3	147.8	152.9	154.5	155.4	147.8
67.5°	92.9	90.4	92.1	93.7	96.3	99.7	104.7	104.7	107.2	107.2	102.2
70°	59.1	59.1	60.0	62.5	64.2	65.0	66.7	68.4	70.9	70.1	70.1
72.5°	39.7	38.8	39.7	40.5	41.4	43.9	43.9	44.8	46.5	47.3	43.9
75°	20.3	21.1	22.8	22.0	24.5	22.8	23.6	26.2	25.3	23.6	23.6
77.5°	16.9	16.9	16.9	16.1	17.7	17.7	16.9	18.6	17.7	17.7	16.9
80°	11.8	12.7	11.8	11.0	11.8	11.0	11.0	11.0	11.0	11.0	10.1
82.5°	9.3	7.6	8.5	7.6	8.5	8.5	7.6	6.8	6.8	7.6	6.8
85°	6.8	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
87.5°	4.2	2.5	2.5	2.5	3.4	3.4	3.4	2.5	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°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1575.9	1575.1	1576.8	1575.9	1575.9	1575.1	1575.9	1575.1	1576.8	1573.4	1574.2
5°	1575.9	1574.2	1575.1	1575.9	1576.8	1575.1	1575.1	1575.1	1576.8	1575.1	1575.9
7.5°	1572.5	1571.7	1574.2	1575.9	1575.1	1574.2	1575.9	1575.1	1576.8	1575.9	1577.6
10°	1565.8	1566.6	1568.3	1570.8	1571.7	1572.5	1574.2	1574.2	1576.8	1573.4	1575.1
12.5°	1555.6	1559.0	1563.2	1564.9	1568.3	1568.3	1570.0	1570.8	1572.5	1571.7	1574.2
15°	1543.0	1547.2	1552.2	1556.5	1560.7	1563.2	1565.8	1566.6	1569.1	1566.6	1567.5
17.5°	1527.8	1532.8	1540.4	1545.5	1552.2	1554.8	1558.2	1559.8	1562.4	1560.7	1561.5
20°	1506.6	1512.6	1521.0	1528.6	1532.8	1538.7	1543.0	1545.5	1547.2	1545.5	1546.3
22.5°	1477.1	1485.5	1496.5	1502.4	1510.9	1515.9	1516.8	1522.7	1526.9	1522.7	1524.4
25°	1442.5	1450.9	1459.4	1472.0	1479.6	1485.5	1491.4	1492.3	1496.5	1495.7	1494.8
27.5°	1385.0	1396.0	1410.4	1420.5	1430.6	1439.9	1446.7	1448.4	1452.6	1450.9	1451.8
30°	1306.5	1318.3	1331.8	1347.9	1362.2	1371.5	1380.0	1385.9	1390.1	1387.6	1386.7
32.5°	1195.0	1206.8	1221.2	1237.2	1254.1	1267.6	1277.8	1285.4	1290.4	1288.8	1284.5
35°	1067.5	1070.9	1080.2	1092.8	1107.2	1121.5	1130.8	1139.3	1145.2	1146.9	1146.9
37.5°	936.6	925.6	918.9	918.9	927.3	933.2	941.7	946.7	956.0	959.4	961.9
40°	809.9	784.6	760.9	743.2	731.4	730.5	730.5	733.0	741.5	752.5	762.6
42.5°	696.7	656.2	619.9	586.9	563.3	549.8	543.9	544.7	551.5	561.6	578.5
45°	606.4	555.7	510.1	470.4	438.3	417.2	407.1	406.2	411.3	423.1	441.7
47.5°	536.3	482.2	430.7	385.1	350.5	327.7	315.9	312.5	315.9	326.8	348.8
50°	478.0	422.3	369.1	321.8	284.6	261.0	250.0	245.8	250.0	259.3	281.2
52.5°	423.9	366.5	316.7	271.1	231.4	211.1	199.3	196.8	199.3	210.3	228.0
55°	361.5	312.5	263.5	217.9	183.3	163.0	153.7	151.2	153.7	163.8	182.4
57.5°	299.8	257.6	214.5	173.1	143.6	125.8	117.4	114.0	119.9	126.7	148.6
60°	242.4	208.6	172.3	136.0	111.5	95.4	88.7	87.8	89.5	98.0	113.2
62.5°	190.0	162.2	133.4	103.9	83.6	76.9	68.4	67.6	69.2	74.3	86.1
65°	136.8	119.1	97.1	76.0	60.0	50.7	47.3	48.1	49.8	53.2	64.2
67.5°	95.4	82.8	67.6	53.2	41.4	37.2	33.8	32.9	33.8	39.7	45.6
70°	64.2	56.6	45.6	40.5	28.7	22.8	23.6	21.1	24.5	24.5	29.6
72.5°	42.2	37.2	30.4	23.6	20.3	16.1	16.1	15.2	16.9	17.7	22.0
75°	22.0	16.9	16.9	11.8	8.5	4.2	7.6	6.8	5.9	6.8	8.5
77.5°	15.2	12.7	11.8	9.3	8.5	6.8	6.8	6.8	6.8	7.6	8.5
80°	9.3	9.3	6.8	5.9	5.1	4.2	5.1	5.1	5.1	5.1	5.9
82.5°	5.9	5.1	5.1	4.2	4.2	3.4	3.4	3.4	3.4	3.4	5.1
85°	5.1	3.4	3.4	2.5	3.4	5.9	2.5	3.4	3.4	3.4	2.5
87.5°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	2.5	2.5	4.2	3.4
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°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1575.9	1576.8	1576.8	1575.9	1575.9	1574.2	1577.6	1575.1	1575.9	1579.3	1576.8
5°	1577.6	1578.4	1578.4	1577.6	1577.6	1577.6	1578.4	1578.4	1577.6	1576.8	1578.4
7.5°	1581.0	1580.1	1580.1	1578.4	1578.4	1576.8	1578.4	1575.9	1577.6	1575.9	1578.4
10°	1576.8	1577.6	1576.8	1575.9	1575.9	1575.1	1575.1	1572.5	1573.4	1570.8	1572.5
12.5°	1574.2	1573.4	1573.4	1571.7	1570.0	1568.3	1567.5	1564.9	1564.9	1559.0	1561.5
15°	1567.5	1568.3	1565.8	1562.4	1560.7	1556.5	1554.8	1551.4	1548.0	1543.8	1544.7
17.5°	1561.5	1559.0	1555.6	1552.2	1545.5	1542.1	1538.7	1533.7	1532.0	1526.9	1525.2
20°	1543.8	1542.1	1537.9	1532.0	1527.8	1520.2	1516.8	1511.7	1507.5	1502.4	1499.9
22.5°	1521.0	1519.3	1514.2	1508.3	1501.6	1498.2	1494.8	1485.5	1481.3	1476.2	1475.4
25°	1492.3	1489.8	1484.7	1477.9	1474.5	1465.3	1461.9	1455.1	1453.4	1448.4	1447.5
27.5°	1448.4	1445.0	1439.1	1430.6	1424.7	1418.8	1415.4	1410.4	1408.7	1403.6	1402.8
30°	1382.5	1378.3	1366.4	1363.1	1352.9	1347.0	1347.0	1340.3	1341.1	1337.7	1337.7
32.5°	1278.6	1271.9	1262.6	1255.8	1249.1	1245.7	1245.7	1243.1	1244.8	1244.8	1246.5
35°	1141.0	1131.7	1126.6	1122.4	1122.4	1125.8	1135.9	1138.4	1143.5	1147.7	1151.1
37.5°	964.4	963.6	969.5	974.6	987.3	1001.6	1019.4	1034.6	1048.9	1059.0	1069.2
40°	773.6	794.7	811.6	835.3	854.7	882.5	914.6	940.8	965.3	983.0	1001.6
42.5°	603.8	630.9	666.3	701.0	735.6	773.6	815.8	852.1	884.2	908.7	928.1
45°	470.4	507.6	550.6	594.6	639.3	686.6	730.5	767.7	801.5	826.8	846.2
47.5°	379.2	419.7	468.7	516.9	567.5	617.3	666.3	698.4	726.3	746.6	764.3
50°	313.3	356.4	407.9	462.8	513.5	563.3	605.5	636.8	659.6	677.3	688.3
52.5°	261.8	307.4	362.3	417.2	467.9	513.5	551.5	575.1	593.7	606.4	616.5
55°	216.2	260.1	311.6	363.2	413.0	456.0	487.3	505.0	519.4	527.0	532.9
57.5°	176.5	217.0	264.3	311.6	354.7	390.2	414.7	432.4	439.2	445.1	444.2
60°	138.5	176.5	219.6	260.1	297.3	326.0	343.7	353.9	358.9	361.5	359.8
62.5°	108.9	143.6	176.5	212.0	239.0	263.5	280.4	280.4	282.9	283.8	286.3
65°	81.1	107.2	136.0	162.2	184.1	200.2	209.5	212.0	215.4	214.5	212.8
67.5°	60.0	79.4	100.5	119.9	135.1	145.3	152.0	157.9	157.1	155.4	154.5
70°	41.4	54.1	72.6	84.5	95.4	105.6	107.2	108.1	108.9	109.8	108.1
72.5°	28.7	38.0	48.1	58.3	65.0	69.2	73.5	74.3	74.3	74.3	73.5
75°	14.4	19.4	28.7	32.9	38.8	40.5	43.9	43.9	46.5	43.1	42.2
77.5°	12.7	15.2	20.3	23.6	26.2	28.7	29.6	32.1	31.2	29.6	30.4
80°	7.6	9.3	12.7	14.4	17.7	18.6	19.4	20.3	19.4	20.3	20.3
82.5°	5.9	6.8	8.5	8.5	11.0	11.0	11.8	11.8	12.7	12.7	12.7
85°	3.4	5.9	5.1	10.1	6.8	6.8	8.5	10.1	8.5	8.5	10.1
87.5°	3.4	3.4	2.5	3.4	3.4	3.4	4.2	5.1	5.1	5.9	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: P246183

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1573.4	1573.4	1573.4	1573.4
2.5°	1575.9	1577.6	1575.1	1574.2
5°	1578.4	1578.4	1576.8	1576.8
7.5°	1578.4	1578.4	1575.9	1574.2
10°	1571.7	1571.7	1569.1	1567.5
12.5°	1559.0	1559.0	1558.2	1555.6
15°	1543.0	1543.0	1539.6	1537.1
17.5°	1521.0	1522.7	1518.5	1518.5
20°	1497.4	1496.5	1493.1	1491.4
22.5°	1472.9	1471.2	1470.3	1465.3
25°	1446.7	1445.0	1442.5	1439.9
27.5°	1401.9	1401.1	1398.5	1395.2
30°	1333.5	1332.7	1329.3	1329.3
32.5°	1244.8	1244.0	1240.6	1241.5
35°	1152.8	1156.2	1154.5	1151.1
37.5°	1075.9	1078.5	1080.2	1078.5
40°	1011.7	1019.4	1020.2	1021.9
42.5°	943.3	953.5	956.9	958.5
45°	861.4	870.7	878.3	876.6
47.5°	777.8	784.6	791.3	786.3
50°	697.6	701.8	704.3	704.3
52.5°	621.6	621.6	620.7	621.6
55°	534.6	534.6	531.2	532.9
57.5°	443.4	445.1	442.5	438.3
60°	358.9	354.7	353.0	350.5
62.5°	279.5	279.5	273.6	281.2
65°	209.5	206.9	204.4	203.5
67.5°	152.0	151.2	148.6	147.8
70°	107.2	103.9	103.0	101.3
72.5°	71.8	71.8	70.1	70.1
75°	43.9	39.7	38.8	39.7
77.5°	30.4	29.6	29.6	28.7
80°	20.3	19.4	21.1	18.6
82.5°	12.7	13.5	12.7	13.5
85°	8.5	10.1	9.3	9.3
87.5°	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)