

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: P244647

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244647  
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 EC8B30950 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2892.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

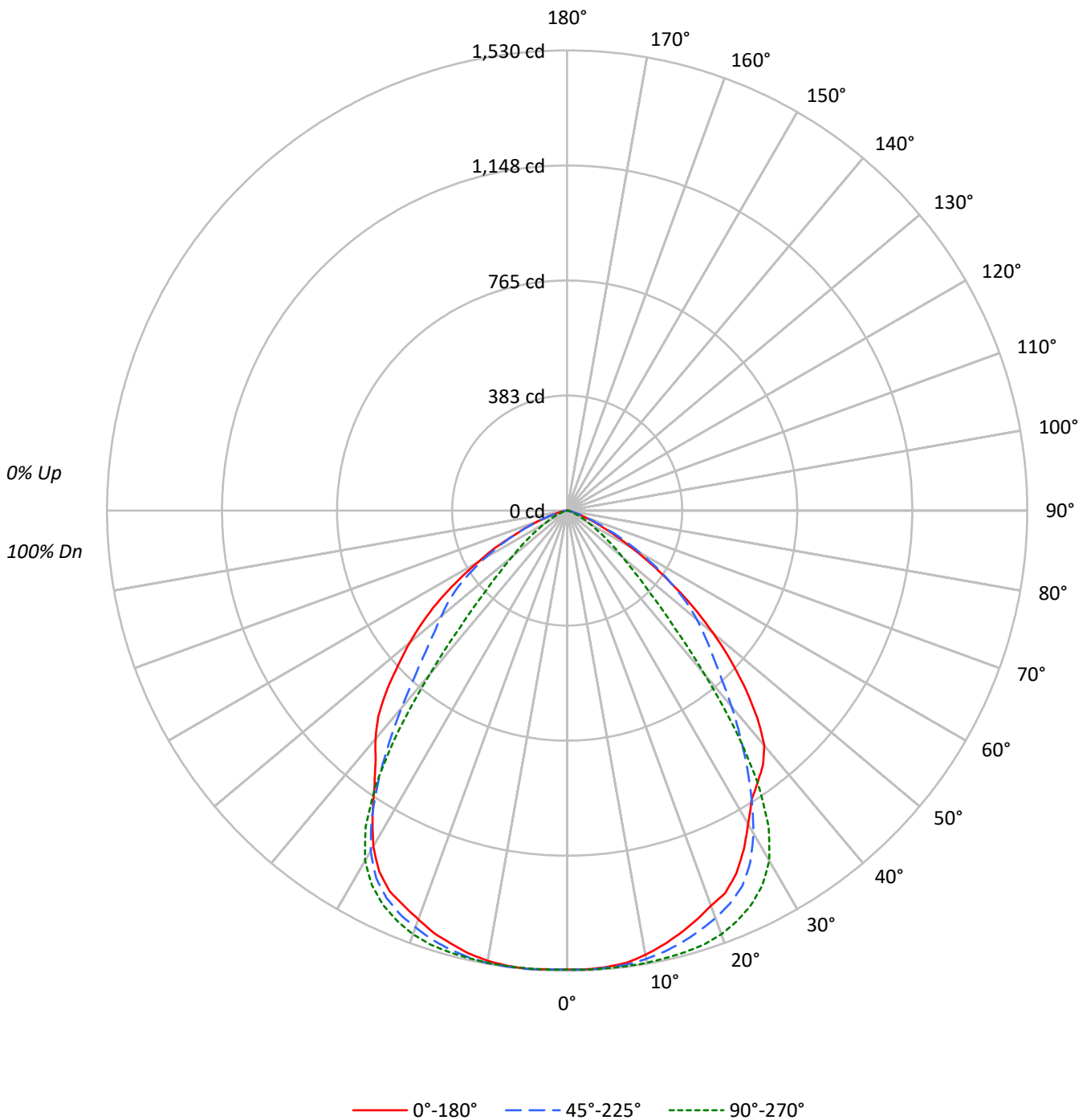
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	47053	47053	47053
5°	47155	47282	47335
10°	46959	47804	47597
15°	46437	48502	47589
20°	45879	49184	47464
25°	45283	49243	47515
30°	42842	47855	45904
35°	41563	41593	42026
40°	41047	28617	39896
45°	36575	17182	37076
50°	30410	11432	32770
55°	22811	7881	27784
60°	15455	5255	20963
65°	9325	3407	14403
70°	5166	1848	8863
75°	2347	786	4587
80°	2042	870	3196
85°	2335	1168	3184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	5.0
10°-20°	422.9	14.6
20°-30°	641.9	22.2
30°-40°	674.2	23.3
40°-50°	505.5	17.5
50°-60°	324.3	11.2
60°-70°	138.7	4.8
70°-80°	32.8	1.1
80°-90°	6.1	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°	1210.4	41.9
0°-40°	1884.6	65.2
0°-60°	2714.4	93.9
0°-90°	2892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2892.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1526	1526	1526	1526	1526	
5°	1523	1526	1528	1530	1529	145
15°	1455	1485	1519	1510	1491	410
25°	1331	1378	1447	1421	1396	608
35°	1104	1043	1105	1092	1116	693
45°	839	686	394	666	850	642
55°	424	424	147	442	517	385
65°	128	151	47	194	197	136
75°	20	23	7	39	38	29
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°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1526.7	1528.3	1527.5	1527.5	1526.7	1527.5	1527.5	1529.2	1529.2	1527.5	1526.7
5°	1523.4	1525.1	1525.1	1523.4	1523.4	1527.5	1525.1	1526.7	1526.7	1525.9	1525.9
7.5°	1516.1	1516.1	1519.3	1516.9	1516.9	1519.3	1518.5	1520.1	1521.8	1522.6	1522.6
10°	1499.7	1501.3	1502.1	1502.1	1502.9	1505.4	1507.0	1510.3	1511.9	1513.6	1514.4
12.5°	1479.2	1481.6	1482.5	1481.6	1484.1	1487.4	1491.5	1495.6	1498.0	1501.3	1503.8
15°	1454.6	1454.6	1456.3	1458.7	1460.4	1465.3	1469.4	1474.3	1480.8	1484.9	1489.0
17.5°	1427.6	1429.2	1431.7	1431.7	1435.0	1443.1	1445.6	1453.0	1460.4	1464.5	1472.6
20°	1398.1	1399.7	1402.2	1403.8	1407.9	1414.5	1419.4	1426.0	1434.1	1441.5	1449.7
22.5°	1375.2	1371.9	1373.5	1375.2	1379.3	1385.0	1390.7	1398.9	1407.1	1414.5	1422.7
25°	1330.9	1331.8	1334.2	1335.9	1340.8	1345.7	1352.2	1362.1	1369.4	1377.6	1386.6
27.5°	1271.2	1272.0	1276.1	1276.1	1280.2	1288.4	1292.4	1300.6	1310.5	1318.7	1329.3
30°	1203.2	1204.8	1204.8	1208.1	1210.5	1214.6	1218.7	1226.9	1231.8	1239.2	1254.0
32.5°	1140.9	1142.6	1141.7	1140.9	1138.5	1137.6	1136.8	1138.5	1140.1	1142.6	1148.3
35°	1104.1	1100.0	1096.7	1091.0	1084.4	1076.2	1068.8	1059.0	1050.0	1042.6	1034.5
37.5°	1068.8	1068.0	1063.1	1054.9	1041.8	1027.1	1009.9	988.6	967.3	944.4	922.3
40°	1019.7	1017.2	1013.2	1001.7	986.9	968.9	946.0	919.8	885.4	850.2	814.1
42.5°	936.2	937.0	932.1	923.1	909.1	891.9	868.2	839.5	802.7	760.9	714.2
45°	838.7	838.7	837.1	829.7	819.9	805.9	787.9	764.2	728.1	685.5	635.6
47.5°	737.1	738.0	735.5	733.9	729.8	720.8	707.7	689.6	664.2	623.3	573.3
50°	633.9	633.9	638.0	637.2	637.2	633.9	628.2	617.6	595.4	562.7	516.0
52.5°	530.7	532.4	534.8	538.1	542.2	548.8	542.2	537.3	523.4	498.0	457.8
55°	424.3	425.9	430.0	435.7	440.7	447.2	448.8	448.8	441.5	424.3	394.0
57.5°	333.4	330.9	334.2	339.1	345.6	352.2	357.1	362.8	362.0	350.6	326.0
60°	250.6	251.5	253.9	258.8	263.7	269.5	276.0	280.9	283.4	277.7	262.1
62.5°	182.7	182.7	185.9	190.8	193.3	201.5	205.6	208.0	210.5	209.7	199.8
65°	127.8	129.4	131.0	133.5	136.0	140.9	143.3	148.2	149.9	150.7	143.3
67.5°	90.1	87.6	89.3	90.9	93.4	96.7	101.6	101.6	104.0	104.0	99.1
70°	57.3	57.3	58.2	60.6	62.2	63.1	64.7	66.3	68.8	68.0	68.0
72.5°	38.5	37.7	38.5	39.3	40.1	42.6	42.6	43.4	45.1	45.9	42.6
75°	19.7	20.5	22.1	21.3	23.7	22.1	22.9	25.4	24.6	22.9	22.9
77.5°	16.4	16.4	16.4	15.6	17.2	17.2	16.4	18.0	17.2	17.2	16.4
80°	11.5	12.3	11.5	10.6	11.5	10.6	10.6	10.6	10.6	10.6	9.8
82.5°	9.0	7.4	8.2	7.4	8.2	8.2	7.4	6.6	6.6	7.4	6.6
85°	6.6	4.9	5.7	5.7	4.9	4.9	4.9	4.9	4.9	4.1	4.1
87.5°	4.1	2.5	2.5	2.5	3.3	3.3	3.3	2.5	3.3	3.3	1.6
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: P244647

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1528.3	1527.5	1529.2	1528.3	1528.3	1527.5	1528.3	1527.5	1529.2	1525.9	1526.7
5°	1528.3	1526.7	1527.5	1528.3	1529.2	1527.5	1527.5	1527.5	1529.2	1527.5	1528.3
7.5°	1525.1	1524.2	1526.7	1528.3	1527.5	1526.7	1528.3	1527.5	1529.2	1528.3	1530.0
10°	1518.5	1519.3	1521.0	1523.4	1524.2	1525.1	1526.7	1526.7	1529.2	1525.9	1527.5
12.5°	1508.7	1511.9	1516.1	1517.7	1521.0	1521.0	1522.6	1523.4	1525.1	1524.2	1526.7
15°	1496.4	1500.5	1505.4	1509.5	1513.6	1516.1	1518.5	1519.3	1521.8	1519.3	1520.1
17.5°	1481.6	1486.6	1493.9	1498.8	1505.4	1507.9	1511.1	1512.8	1515.2	1513.6	1514.4
20°	1461.2	1466.9	1475.1	1482.5	1486.6	1492.3	1496.4	1498.8	1500.5	1498.8	1499.7
22.5°	1432.5	1440.7	1451.3	1457.1	1465.3	1470.2	1471.0	1476.7	1480.8	1476.7	1478.4
25°	1398.9	1407.1	1415.3	1427.6	1435.0	1440.7	1446.4	1447.3	1451.3	1450.5	1449.7
27.5°	1343.2	1353.9	1367.8	1377.6	1387.5	1396.5	1403.0	1404.7	1408.8	1407.1	1407.9
30°	1267.1	1278.5	1291.6	1307.2	1321.1	1330.1	1338.3	1344.0	1348.1	1345.7	1344.9
32.5°	1159.0	1170.4	1184.3	1199.9	1216.3	1229.4	1239.2	1246.6	1251.5	1249.9	1245.8
35°	1035.3	1038.5	1047.6	1059.9	1073.8	1087.7	1096.7	1104.9	1110.6	1112.3	1112.3
37.5°	908.3	897.7	891.1	891.1	899.3	905.0	913.2	918.1	927.2	930.4	932.9
40°	785.5	760.9	738.0	720.8	709.3	708.5	708.5	710.9	719.1	729.8	739.6
42.5°	675.7	636.4	601.2	569.2	546.3	533.2	527.5	528.3	534.8	544.7	561.0
45°	588.1	538.9	494.7	456.2	425.1	404.6	394.8	394.0	398.9	410.3	428.4
47.5°	520.1	467.7	417.7	373.5	339.9	317.8	306.3	303.1	306.3	317.0	338.3
50°	463.6	409.5	357.9	312.1	276.0	253.1	242.4	238.3	242.4	251.5	272.7
52.5°	411.2	355.5	307.1	262.9	224.4	204.8	193.3	190.8	193.3	203.9	221.1
55°	350.6	303.1	255.5	211.3	177.7	158.1	149.1	146.6	149.1	158.9	176.9
57.5°	290.8	249.8	208.0	167.9	139.2	122.0	113.9	110.6	116.3	122.8	144.2
60°	235.1	202.3	167.1	131.9	108.1	92.5	86.0	85.2	86.8	95.0	109.7
62.5°	184.3	157.3	129.4	100.7	81.1	74.5	66.3	65.5	67.2	72.1	83.5
65°	132.7	115.5	94.2	73.7	58.2	49.1	45.9	46.7	48.3	51.6	62.2
67.5°	92.5	80.3	65.5	51.6	40.1	36.0	32.8	31.9	32.8	38.5	44.2
70°	62.2	54.9	44.2	39.3	27.9	22.1	22.9	20.5	23.7	23.7	28.7
72.5°	40.9	36.0	29.5	22.9	19.7	15.6	15.6	14.7	16.4	17.2	21.3
75°	21.3	16.4	16.4	11.5	8.2	4.1	7.4	6.6	5.7	6.6	8.2
77.5°	14.7	12.3	11.5	9.0	8.2	6.6	6.6	6.6	6.6	7.4	8.2
80°	9.0	9.0	6.6	5.7	4.9	4.1	4.9	4.9	4.9	4.9	5.7
82.5°	5.7	4.9	4.9	4.1	4.1	3.3	3.3	3.3	3.3	3.3	4.9
85°	4.9	3.3	3.3	2.5	3.3	5.7	2.5	3.3	3.3	3.3	2.5
87.5°	1.6	2.5	2.5	2.5	1.6	0.8	1.6	2.5	2.5	4.1	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: P244647

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1528.3	1529.2	1529.2	1528.3	1528.3	1526.7	1530.0	1527.5	1528.3	1531.6	1529.2
5°	1530.0	1530.8	1530.8	1530.0	1530.0	1530.0	1530.8	1530.8	1530.0	1529.2	1530.8
7.5°	1533.3	1532.4	1532.4	1530.8	1530.8	1529.2	1530.8	1528.3	1530.0	1528.3	1530.8
10°	1529.2	1530.0	1529.2	1528.3	1528.3	1527.5	1527.5	1525.1	1525.9	1523.4	1525.1
12.5°	1526.7	1525.9	1525.9	1524.2	1522.6	1521.0	1520.1	1517.7	1517.7	1511.9	1514.4
15°	1520.1	1521.0	1518.5	1515.2	1513.6	1509.5	1507.9	1504.6	1501.3	1497.2	1498.0
17.5°	1514.4	1511.9	1508.7	1505.4	1498.8	1495.6	1492.3	1487.4	1485.7	1480.8	1479.2
20°	1497.2	1495.6	1491.5	1485.7	1481.6	1474.3	1471.0	1466.1	1462.0	1457.1	1454.6
22.5°	1475.1	1473.5	1468.5	1462.8	1456.3	1453.0	1449.7	1440.7	1436.6	1431.7	1430.9
25°	1447.3	1444.8	1439.9	1433.3	1430.0	1421.0	1417.8	1411.2	1409.6	1404.7	1403.8
27.5°	1404.7	1401.4	1395.7	1387.5	1381.7	1376.0	1372.7	1367.8	1366.2	1361.2	1360.4
30°	1340.8	1336.7	1325.2	1321.9	1312.1	1306.4	1306.4	1299.8	1300.6	1297.4	1297.4
32.5°	1240.0	1233.5	1224.5	1217.9	1211.4	1208.1	1208.1	1205.6	1207.3	1207.3	1208.9
35°	1106.5	1097.5	1092.6	1088.5	1088.5	1091.8	1101.6	1104.1	1109.0	1113.1	1116.4
37.5°	935.3	934.5	940.3	945.2	957.5	971.4	988.6	1003.3	1017.2	1027.1	1036.9
40°	750.2	770.7	787.1	810.0	828.9	855.9	887.0	912.4	936.2	953.4	971.4
42.5°	585.6	611.8	646.2	679.8	713.4	750.2	791.2	826.4	857.5	881.3	900.1
45°	456.2	492.2	534.0	576.6	620.0	665.9	708.5	744.5	777.3	801.8	820.7
47.5°	367.7	407.1	454.6	501.3	550.4	598.7	646.2	677.4	704.4	724.0	741.2
50°	303.9	345.6	395.6	448.8	498.0	546.3	587.3	617.6	639.7	656.9	667.5
52.5°	253.9	298.1	351.4	404.6	453.7	498.0	534.8	557.8	575.8	588.1	597.9
55°	209.7	252.3	302.2	352.2	400.5	442.3	472.6	489.8	503.7	511.1	516.8
57.5°	171.2	210.5	256.4	302.2	344.0	378.4	402.2	419.4	425.9	431.6	430.8
60°	134.3	171.2	213.0	252.3	288.3	316.1	333.4	343.2	348.1	350.6	348.9
62.5°	105.7	139.2	171.2	205.6	231.8	255.5	271.9	271.9	274.4	275.2	277.7
65°	78.6	104.0	131.9	157.3	178.5	194.1	203.1	205.6	208.9	208.0	206.4
67.5°	58.2	77.0	97.5	116.3	131.0	140.9	147.4	153.2	152.3	150.7	149.9
70°	40.1	52.4	70.4	81.9	92.5	102.4	104.0	104.8	105.7	106.5	104.8
72.5°	27.9	36.9	46.7	56.5	63.1	67.2	71.3	72.1	72.1	72.1	71.3
75°	13.9	18.8	27.9	31.9	37.7	39.3	42.6	42.6	45.1	41.8	40.9
77.5°	12.3	14.7	19.7	22.9	25.4	27.9	28.7	31.1	30.3	28.7	29.5
80°	7.4	9.0	12.3	13.9	17.2	18.0	18.8	19.7	18.8	19.7	19.7
82.5°	5.7	6.6	8.2	8.2	10.6	10.6	11.5	11.5	12.3	12.3	12.3
85°	3.3	5.7	4.9	9.8	6.6	6.6	8.2	9.8	8.2	8.2	9.8
87.5°	3.3	3.3	2.5	3.3	3.3	3.3	4.1	4.9	4.9	5.7	4.9
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: P244647

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1525.9	1525.9	1525.9	1525.9
2.5°	1528.3	1530.0	1527.5	1526.7
5°	1530.8	1530.8	1529.2	1529.2
7.5°	1530.8	1530.8	1528.3	1526.7
10°	1524.2	1524.2	1521.8	1520.1
12.5°	1511.9	1511.9	1511.1	1508.7
15°	1496.4	1496.4	1493.1	1490.7
17.5°	1475.1	1476.7	1472.6	1472.6
20°	1452.2	1451.3	1448.1	1446.4
22.5°	1428.4	1426.8	1426.0	1421.0
25°	1403.0	1401.4	1398.9	1396.5
27.5°	1359.6	1358.8	1356.3	1353.1
30°	1293.3	1292.4	1289.2	1289.2
32.5°	1207.3	1206.4	1203.2	1204.0
35°	1118.0	1121.3	1119.6	1116.4
37.5°	1043.5	1045.9	1047.6	1045.9
40°	981.2	988.6	989.4	991.1
42.5°	914.9	924.7	928.0	929.6
45°	835.4	844.4	851.8	850.2
47.5°	754.3	760.9	767.4	762.5
50°	676.5	680.6	683.1	683.1
52.5°	602.8	602.8	602.0	602.8
55°	518.5	518.5	515.2	516.8
57.5°	430.0	431.6	429.2	425.1
60°	348.1	344.0	342.4	339.9
62.5°	271.1	271.1	265.4	272.7
65°	203.1	200.7	198.2	197.4
67.5°	147.4	146.6	144.2	143.3
70°	104.0	100.7	99.9	98.3
72.5°	69.6	69.6	68.0	68.0
75°	42.6	38.5	37.7	38.5
77.5°	29.5	28.7	28.7	27.9
80°	19.7	18.8	20.5	18.0
82.5°	12.3	13.1	12.3	13.1
85°	8.2	9.8	9.0	9.0
87.5°	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)