

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: P246087

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246087  
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 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2827.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

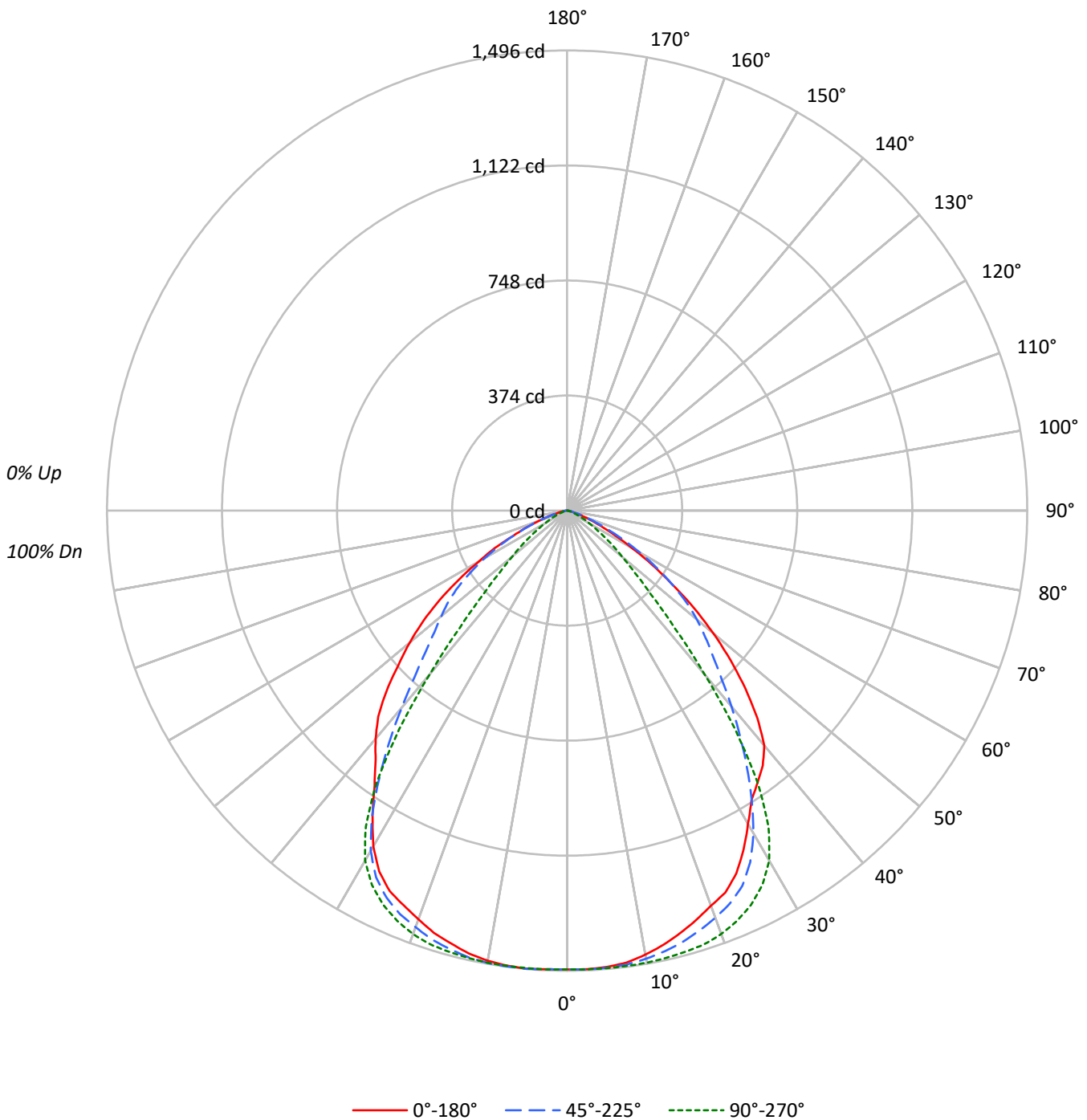
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	45995	45995	45995
5°	46097	46221	46270
10°	45903	46730	46530
15°	45393	47414	46520
20°	44849	48081	46398
25°	44265	48134	46446
30°	41877	46780	44872
35°	40629	40656	41081
40°	40125	27972	38998
45°	35755	16794	36244
50°	29729	11178	32031
55°	22295	7704	27160
60°	15110	5137	20494
65°	9113	3327	14075
70°	5049	1803	8664
75°	2288	763	4480
80°	1989	852	3125
85°	2264	1132	3114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.4	5.0
10°-20°	413.4	14.6
20°-30°	627.5	22.2
30°-40°	659.0	23.3
40°-50°	494.1	17.5
50°-60°	317.0	11.2
60°-70°	135.6	4.8
70°-80°	32.0	1.1
80°-90°	6.0	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°	1183.2	41.9
0°-40°	1842.3	65.2
0°-60°	2653.4	93.9
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1492	1492	1492	1492	1492	
5°	1489	1492	1493	1496	1495	141
15°	1422	1452	1485	1476	1457	401
25°	1301	1347	1415	1389	1365	594
35°	1079	1019	1080	1067	1091	677
45°	820	670	385	651	831	628
55°	415	415	143	432	505	376
65°	125	147	46	190	193	133
75°	19	22	6	38	38	28
85°	6	4	3	6	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°	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6
2.5°	1492.4	1494.0	1493.2	1493.2	1492.4	1493.2	1493.2	1494.8	1494.8	1493.2	1492.4
5°	1489.2	1490.8	1490.8	1489.2	1489.2	1493.2	1490.8	1492.4	1492.4	1491.6	1491.6
7.5°	1482.0	1482.0	1485.2	1482.8	1482.8	1485.2	1484.4	1486.0	1487.6	1488.4	1488.4
10°	1466.0	1467.6	1468.4	1468.4	1469.2	1471.6	1473.2	1476.4	1478.0	1479.6	1480.4
12.5°	1446.0	1448.3	1449.1	1448.3	1450.8	1453.9	1458.0	1462.0	1464.4	1467.6	1470.0
15°	1421.9	1421.9	1423.5	1425.9	1427.5	1432.3	1436.3	1441.1	1447.5	1451.6	1455.6
17.5°	1395.5	1397.1	1399.5	1399.5	1402.7	1410.7	1413.1	1420.3	1427.5	1431.5	1439.5
20°	1366.7	1368.3	1370.7	1372.3	1376.3	1382.7	1387.5	1393.9	1401.9	1409.1	1417.1
22.5°	1344.3	1341.1	1342.7	1344.3	1348.3	1353.9	1359.5	1367.5	1375.5	1382.7	1390.7
25°	1301.0	1301.8	1304.2	1305.8	1310.6	1315.4	1321.9	1331.5	1338.7	1346.7	1355.5
27.5°	1242.6	1243.4	1247.4	1247.4	1251.4	1259.4	1263.4	1271.4	1281.0	1289.0	1299.4
30°	1176.1	1177.7	1177.7	1180.9	1183.3	1187.3	1191.3	1199.4	1204.2	1211.4	1225.8
32.5°	1115.3	1116.9	1116.1	1115.3	1112.9	1112.1	1111.3	1112.9	1114.5	1116.9	1122.5
35°	1079.3	1075.2	1072.1	1066.5	1060.0	1052.0	1044.8	1035.2	1026.4	1019.2	1011.2
37.5°	1044.8	1044.0	1039.2	1031.2	1018.4	1004.0	987.2	966.4	945.5	923.1	901.5
40°	996.8	994.4	990.4	979.2	964.8	947.1	924.7	899.1	865.5	831.1	795.8
42.5°	915.1	915.9	911.1	902.3	888.7	871.9	848.7	820.7	784.6	743.8	698.2
45°	819.9	819.9	818.2	811.0	801.4	787.8	770.2	747.0	711.8	670.1	621.3
47.5°	720.6	721.4	719.0	717.4	713.4	704.6	691.8	674.1	649.3	609.3	560.4
50°	619.7	619.7	623.7	622.9	622.9	619.7	614.1	603.7	582.1	550.0	504.4
52.5°	518.8	520.4	522.8	526.0	530.0	536.4	530.0	525.2	511.6	486.8	447.6
55°	414.7	416.3	420.3	425.9	430.7	437.2	438.7	438.7	431.5	414.7	385.1
57.5°	325.9	323.5	326.7	331.5	337.9	344.3	349.1	354.7	353.9	342.7	318.7
60°	245.0	245.8	248.2	253.0	257.8	263.4	269.8	274.6	277.0	271.4	256.2
62.5°	178.5	178.5	181.7	186.5	188.9	197.0	201.0	203.4	205.8	205.0	195.4
65°	124.9	126.5	128.1	130.5	132.9	137.7	140.1	144.9	146.5	147.3	140.1
67.5°	88.1	85.7	87.3	88.9	91.3	94.5	99.3	99.3	101.7	101.7	96.9
70°	56.0	56.0	56.9	59.2	60.8	61.7	63.3	64.8	67.3	66.5	66.5
72.5°	37.6	36.8	37.6	38.4	39.2	41.6	41.6	42.4	44.0	44.8	41.6
75°	19.2	20.0	21.6	20.8	23.2	21.6	22.4	24.8	24.0	22.4	22.4
77.5°	16.0	16.0	16.0	15.2	16.8	16.8	16.0	17.6	16.8	16.8	16.0
80°	11.2	12.0	11.2	10.4	11.2	10.4	10.4	10.4	10.4	10.4	9.6
82.5°	8.8	7.2	8.0	7.2	8.0	8.0	7.2	6.4	6.4	7.2	6.4
85°	6.4	4.8	5.6	5.6	4.8	4.8	4.8	4.8	4.8	4.0	4.0
87.5°	4.0	2.4	2.4	2.4	3.2	3.2	3.2	2.4	3.2	3.2	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6
2.5°	1494.0	1493.2	1494.8	1494.0	1494.0	1493.2	1494.0	1493.2	1494.8	1491.6	1492.4
5°	1494.0	1492.4	1493.2	1494.0	1494.8	1493.2	1493.2	1493.2	1494.8	1493.2	1494.0
7.5°	1490.8	1490.0	1492.4	1494.0	1493.2	1492.4	1494.0	1493.2	1494.8	1494.0	1495.6
10°	1484.4	1485.2	1486.8	1489.2	1490.0	1490.8	1492.4	1492.4	1494.8	1491.6	1493.2
12.5°	1474.8	1478.0	1482.0	1483.6	1486.8	1486.8	1488.4	1489.2	1490.8	1490.0	1492.4
15°	1462.8	1466.8	1471.6	1475.6	1479.6	1482.0	1484.4	1485.2	1487.6	1485.2	1486.0
17.5°	1448.3	1453.1	1460.4	1465.2	1471.6	1474.0	1477.2	1478.8	1481.2	1479.6	1480.4
20°	1428.3	1433.9	1441.9	1449.1	1453.1	1458.7	1462.8	1465.2	1466.8	1465.2	1466.0
22.5°	1400.3	1408.3	1418.7	1424.3	1432.3	1437.1	1437.9	1443.5	1447.5	1443.5	1445.2
25°	1367.5	1375.5	1383.5	1395.5	1402.7	1408.3	1413.9	1414.7	1418.7	1417.9	1417.1
27.5°	1313.0	1323.5	1337.1	1346.7	1356.3	1365.1	1371.5	1373.1	1377.1	1375.5	1376.3
30°	1238.6	1249.8	1262.6	1277.8	1291.4	1300.2	1308.2	1313.8	1317.8	1315.4	1314.6
32.5°	1132.9	1144.1	1157.7	1172.9	1189.0	1201.7	1211.4	1218.6	1223.4	1221.8	1217.8
35°	1012.0	1015.2	1024.0	1036.0	1049.6	1063.2	1072.1	1080.0	1085.7	1087.3	1087.3
37.5°	887.9	877.5	871.1	871.1	879.1	884.7	892.7	897.5	906.3	909.5	911.9
40°	767.8	743.8	721.4	704.6	693.4	692.6	692.6	694.9	703.0	713.4	723.0
42.5°	660.5	622.1	587.7	556.4	534.0	521.2	515.6	516.4	522.8	532.4	548.4
45°	574.9	526.8	483.6	446.0	415.5	395.5	385.9	385.1	389.9	401.1	418.7
47.5°	508.4	457.2	408.3	365.1	332.3	310.6	299.4	296.2	299.4	309.8	330.7
50°	453.2	400.3	349.9	305.0	269.8	247.4	237.0	233.0	237.0	245.8	266.6
52.5°	401.9	347.5	300.2	257.0	219.4	200.2	188.9	186.5	188.9	199.4	216.2
55°	342.7	296.2	249.8	206.6	173.7	154.5	145.7	143.3	145.7	155.3	172.9
57.5°	284.2	244.2	203.4	164.1	136.1	119.3	111.3	108.1	113.7	120.1	140.9
60°	229.8	197.8	163.3	128.9	105.7	90.5	84.1	83.3	84.9	92.9	107.3
62.5°	180.2	153.7	126.5	98.5	79.3	72.9	64.8	64.1	65.6	70.4	81.7
65°	129.7	112.9	92.1	72.1	56.9	48.0	44.8	45.6	47.2	50.4	60.8
67.5°	90.5	78.5	64.1	50.4	39.2	35.2	32.0	31.2	32.0	37.6	43.2
70°	60.8	53.6	43.2	38.4	27.2	21.6	22.4	20.0	23.2	23.2	28.0
72.5°	40.0	35.2	28.8	22.4	19.2	15.2	15.2	14.4	16.0	16.8	20.8
75°	20.8	16.0	16.0	11.2	8.0	4.0	7.2	6.4	5.6	6.4	8.0
77.5°	14.4	12.0	11.2	8.8	8.0	6.4	6.4	6.4	6.4	7.2	8.0
80°	8.8	8.8	6.4	5.6	4.8	4.0	4.8	4.8	4.8	4.8	5.6
82.5°	5.6	4.8	4.8	4.0	4.0	3.2	3.2	3.2	3.2	3.2	4.8
85°	4.8	3.2	3.2	2.4	3.2	5.6	2.4	3.2	3.2	3.2	2.4
87.5°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	4.0	3.2
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°	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6	1491.6
2.5°	1494.0	1494.8	1494.8	1494.0	1494.0	1492.4	1495.6	1493.2	1494.0	1497.2	1494.8
5°	1495.6	1496.4	1496.4	1495.6	1495.6	1495.6	1496.4	1496.4	1495.6	1494.8	1496.4
7.5°	1498.8	1498.0	1498.0	1496.4	1496.4	1494.8	1496.4	1494.0	1495.6	1494.0	1496.4
10°	1494.8	1495.6	1494.8	1494.0	1494.0	1493.2	1493.2	1490.8	1491.6	1489.2	1490.8
12.5°	1492.4	1491.6	1491.6	1490.0	1488.4	1486.8	1486.0	1483.6	1483.6	1478.0	1480.4
15°	1486.0	1486.8	1484.4	1481.2	1479.6	1475.6	1474.0	1470.8	1467.6	1463.6	1464.4
17.5°	1480.4	1478.0	1474.8	1471.6	1465.2	1462.0	1458.7	1453.9	1452.3	1447.5	1446.0
20°	1463.6	1462.0	1458.0	1452.3	1448.3	1441.1	1437.9	1433.1	1429.1	1424.3	1421.9
22.5°	1441.9	1440.3	1435.5	1429.9	1423.5	1420.3	1417.1	1408.3	1404.3	1399.5	1398.7
25°	1414.7	1412.3	1407.5	1401.1	1397.9	1389.1	1385.9	1379.5	1377.9	1373.1	1372.3
27.5°	1373.1	1369.9	1364.3	1356.3	1350.7	1345.1	1341.9	1337.1	1335.5	1330.6	1329.9
30°	1310.6	1306.6	1295.4	1292.2	1282.6	1277.0	1277.0	1270.6	1271.4	1268.2	1268.2
32.5°	1212.2	1205.8	1196.9	1190.5	1184.1	1180.9	1180.9	1178.5	1180.1	1180.1	1181.7
35°	1081.7	1072.9	1068.0	1064.0	1064.0	1067.2	1076.9	1079.3	1084.1	1088.1	1091.3
37.5°	914.3	913.5	919.1	923.9	935.9	949.6	966.4	980.8	994.4	1004.0	1013.6
40°	733.4	753.4	769.4	791.8	810.2	836.7	867.1	891.9	915.1	931.9	949.6
42.5°	572.4	598.1	631.7	664.5	697.4	733.4	773.4	807.8	838.3	861.5	879.9
45°	446.0	481.2	522.0	563.7	606.1	650.9	692.6	727.8	759.8	783.8	802.2
47.5°	359.5	397.9	444.3	490.0	538.0	585.3	631.7	662.1	688.5	707.8	724.6
50°	297.0	337.9	386.7	438.7	486.8	534.0	574.1	603.7	625.3	642.1	652.5
52.5°	248.2	291.4	343.5	395.5	443.5	486.8	522.8	545.2	562.8	574.9	584.5
55°	205.0	246.6	295.4	344.3	391.5	432.3	462.0	478.8	492.4	499.6	505.2
57.5°	167.3	205.8	250.6	295.4	336.3	369.9	393.1	409.9	416.3	421.9	421.1
60°	131.3	167.3	208.2	246.6	281.8	309.0	325.9	335.5	340.3	342.7	341.1
62.5°	103.3	136.1	167.3	201.0	226.6	249.8	265.8	265.8	268.2	269.0	271.4
65°	76.9	101.7	128.9	153.7	174.5	189.8	198.6	201.0	204.2	203.4	201.8
67.5°	56.9	75.3	95.3	113.7	128.1	137.7	144.1	149.7	148.9	147.3	146.5
70°	39.2	51.2	68.9	80.1	90.5	100.1	101.7	102.5	103.3	104.1	102.5
72.5°	27.2	36.0	45.6	55.2	61.7	65.6	69.7	70.4	70.4	70.4	69.7
75°	13.6	18.4	27.2	31.2	36.8	38.4	41.6	41.6	44.0	40.8	40.0
77.5°	12.0	14.4	19.2	22.4	24.8	27.2	28.0	30.4	29.6	28.0	28.8
80°	7.2	8.8	12.0	13.6	16.8	17.6	18.4	19.2	18.4	19.2	19.2
82.5°	5.6	6.4	8.0	8.0	10.4	10.4	11.2	11.2	12.0	12.0	12.0
85°	3.2	5.6	4.8	9.6	6.4	6.4	8.0	9.6	8.0	8.0	9.6
87.5°	3.2	3.2	2.4	3.2	3.2	3.2	4.0	4.8	4.8	5.6	4.8
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: P246087

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1491.6	1491.6	1491.6	1491.6
2.5°	1494.0	1495.6	1493.2	1492.4
5°	1496.4	1496.4	1494.8	1494.8
7.5°	1496.4	1496.4	1494.0	1492.4
10°	1490.0	1490.0	1487.6	1486.0
12.5°	1478.0	1478.0	1477.2	1474.8
15°	1462.8	1462.8	1459.6	1457.2
17.5°	1441.9	1443.5	1439.5	1439.5
20°	1419.5	1418.7	1415.5	1413.9
22.5°	1396.3	1394.7	1393.9	1389.1
25°	1371.5	1369.9	1367.5	1365.1
27.5°	1329.1	1328.3	1325.8	1322.7
30°	1264.2	1263.4	1260.2	1260.2
32.5°	1180.1	1179.3	1176.1	1176.9
35°	1092.9	1096.1	1094.5	1091.3
37.5°	1020.0	1022.4	1024.0	1022.4
40°	959.2	966.4	967.2	968.8
42.5°	894.3	903.9	907.1	908.7
45°	816.6	825.5	832.7	831.1
47.5°	737.4	743.8	750.2	745.4
50°	661.3	665.3	667.7	667.7
52.5°	589.3	589.3	588.5	589.3
55°	506.8	506.8	503.6	505.2
57.5°	420.3	421.9	419.5	415.5
60°	340.3	336.3	334.7	332.3
62.5°	265.0	265.0	259.4	266.6
65°	198.6	196.2	193.7	192.9
67.5°	144.1	143.3	140.9	140.1
70°	101.7	98.5	97.7	96.1
72.5°	68.1	68.1	66.5	66.5
75°	41.6	37.6	36.8	37.6
77.5°	28.8	28.0	28.0	27.2
80°	19.2	18.4	20.0	17.6
82.5°	12.0	12.8	12.0	12.8
85°	8.0	9.6	8.8	8.8
87.5°	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)