

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: P246225

Luminaire Tested: **LD8B30D010 ER8B30940 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246225  
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: LD8B30D010 ER8B30940 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2762.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

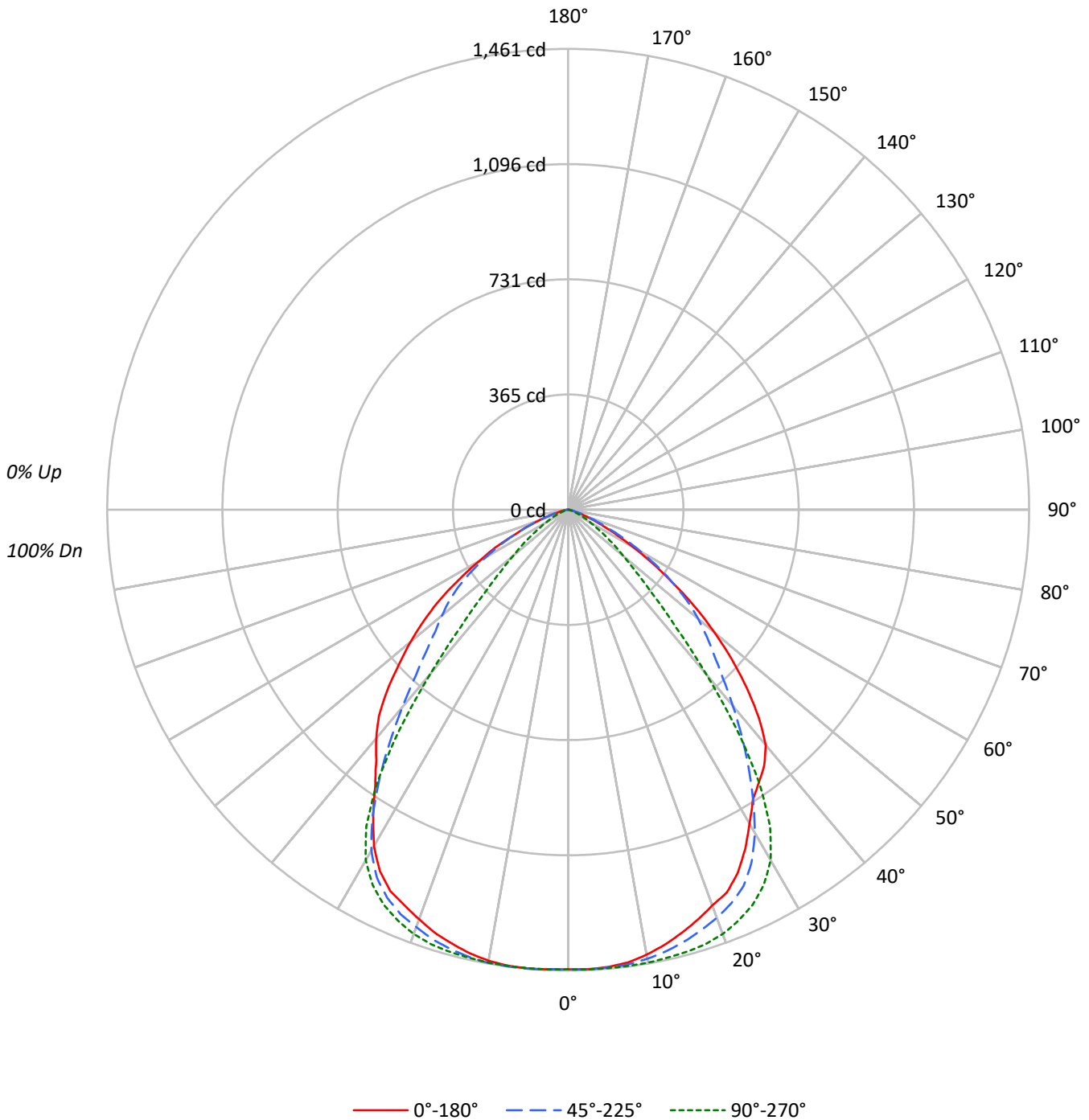
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	44938	44938	44938
5°	45035	45159	45205
10°	44848	45656	45459
15°	44349	46322	45450
20°	43818	46975	45331
25°	43248	47028	45378
30°	40916	45705	43839
35°	39692	39722	40136
40°	39203	27332	38100
45°	34931	16410	35406
50°	29043	10919	31297
55°	21784	7527	26537
60°	14764	5014	20019
65°	8902	3254	13754
70°	4941	1767	8466
75°	2240	751	4384
80°	1936	835	3054
85°	2229	1097	3043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	5.0
10°-20°	403.9	14.6
20°-30°	613.0	22.2
30°-40°	643.9	23.3
40°-50°	482.7	17.5
50°-60°	309.7	11.2
60°-70°	132.5	4.8
70°-80°	31.3	1.1
80°-90°	5.8	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°	1156.0	41.9
0°-40°	1799.9	65.2
0°-60°	2592.4	93.9
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1457	1457	1457	1457	1457	
5°	1455	1457	1459	1461	1460	138
15°	1389	1418	1451	1442	1424	392
25°	1271	1316	1382	1357	1334	581
35°	1054	996	1055	1043	1066	662
45°	801	655	376	636	812	613
55°	405	405	140	422	494	368
65°	122	144	45	185	188	130
75°	19	22	6	38	37	27
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°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1458.1	1459.6	1458.9	1458.9	1458.1	1458.9	1458.9	1460.4	1460.4	1458.9	1458.1
5°	1454.9	1456.5	1456.5	1454.9	1454.9	1458.9	1456.5	1458.1	1458.1	1457.3	1457.3
7.5°	1447.9	1447.9	1451.0	1448.7	1448.7	1451.0	1450.2	1451.8	1453.4	1454.2	1454.2
10°	1432.3	1433.8	1434.6	1434.6	1435.4	1437.7	1439.3	1442.4	1444.0	1445.6	1446.3
12.5°	1412.7	1415.0	1415.8	1415.0	1417.4	1420.5	1424.4	1428.3	1430.7	1433.8	1436.2
15°	1389.2	1389.2	1390.8	1393.1	1394.7	1399.4	1403.3	1408.0	1414.3	1418.2	1422.1
17.5°	1363.4	1365.0	1367.3	1367.3	1370.5	1378.3	1380.6	1387.7	1394.7	1398.6	1406.4
20°	1335.3	1336.8	1339.2	1340.7	1344.6	1350.9	1355.6	1361.9	1369.7	1376.7	1384.5
22.5°	1313.4	1310.2	1311.8	1313.4	1317.3	1322.8	1328.2	1336.0	1343.9	1350.9	1358.7
25°	1271.1	1271.9	1274.3	1275.8	1280.5	1285.2	1291.5	1300.8	1307.9	1315.7	1324.3
27.5°	1214.0	1214.8	1218.7	1218.7	1222.6	1230.4	1234.3	1242.2	1251.6	1259.4	1269.6
30°	1149.1	1150.6	1150.6	1153.8	1156.1	1160.0	1163.9	1171.8	1176.5	1183.5	1197.6
32.5°	1089.6	1091.2	1090.4	1089.6	1087.3	1086.5	1085.7	1087.3	1088.9	1091.2	1096.7
35°	1054.4	1050.5	1047.4	1041.9	1035.7	1027.8	1020.8	1011.4	1002.8	995.8	988.0
37.5°	1020.8	1020.0	1015.3	1007.5	995.0	980.9	964.5	944.1	923.8	901.9	880.8
40°	973.9	971.5	967.6	956.7	942.6	925.4	903.5	878.4	845.6	811.9	777.5
42.5°	894.1	894.9	890.2	881.6	868.3	851.8	829.2	801.8	766.6	726.7	682.1
45°	801.0	801.0	799.4	792.4	783.0	769.7	752.5	729.8	695.4	654.7	607.0
47.5°	704.0	704.8	702.4	700.9	697.0	688.4	675.8	658.6	634.4	595.3	547.6
50°	605.4	605.4	609.4	608.6	608.6	605.4	600.0	589.8	568.7	537.4	492.8
52.5°	506.9	508.4	510.8	513.9	517.8	524.1	517.8	513.1	499.8	475.6	437.3
55°	405.2	406.8	410.7	416.1	420.8	427.1	428.7	428.7	421.6	405.2	376.3
57.5°	318.4	316.0	319.2	323.8	330.1	336.4	341.1	346.5	345.7	334.8	311.3
60°	239.4	240.1	242.5	247.2	251.9	257.4	263.6	268.3	270.7	265.2	250.3
62.5°	174.4	174.4	177.6	182.2	184.6	192.4	196.3	198.7	201.0	200.2	190.9
65°	122.0	123.6	125.2	127.5	129.8	134.5	136.9	141.6	143.1	143.9	136.9
67.5°	86.1	83.7	85.3	86.8	89.2	92.3	97.0	97.0	99.3	99.3	94.6
70°	54.8	54.8	55.5	57.9	59.4	60.2	61.8	63.4	65.7	64.9	64.9
72.5°	36.8	36.0	36.8	37.6	38.3	40.7	40.7	41.5	43.0	43.8	40.7
75°	18.8	19.6	21.1	20.3	22.7	21.1	21.9	24.3	23.5	21.9	21.9
77.5°	15.6	15.6	15.6	14.9	16.4	16.4	15.6	17.2	16.4	16.4	15.6
80°	10.9	11.7	10.9	10.2	10.9	10.2	10.2	10.2	10.2	10.2	9.4
82.5°	8.6	7.0	7.8	7.0	7.8	7.8	7.0	6.3	6.3	7.0	6.3
85°	6.3	4.7	5.5	5.5	4.7	4.7	4.7	4.7	4.7	3.9	3.9
87.5°	3.9	2.4	2.4	2.4	3.1	3.1	3.1	2.4	3.1	3.1	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: P246225

CATALOG NUMBER: LD8B30D010 ER8B30940 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1459.6	1458.9	1460.4	1459.6	1459.6	1458.9	1459.6	1458.9	1460.4	1457.3	1458.1
5°	1459.6	1458.1	1458.9	1459.6	1460.4	1458.9	1458.9	1458.9	1460.4	1458.9	1459.6
7.5°	1456.5	1455.7	1458.1	1459.6	1458.9	1458.1	1459.6	1458.9	1460.4	1459.6	1461.2
10°	1450.2	1451.0	1452.6	1454.9	1455.7	1456.5	1458.1	1458.1	1460.4	1457.3	1458.9
12.5°	1440.9	1444.0	1447.9	1449.5	1452.6	1452.6	1454.2	1454.9	1456.5	1455.7	1458.1
15°	1429.1	1433.0	1437.7	1441.6	1445.6	1447.9	1450.2	1451.0	1453.4	1451.0	1451.8
17.5°	1415.0	1419.7	1426.8	1431.5	1437.7	1440.1	1443.2	1444.8	1447.1	1445.6	1446.3
20°	1395.5	1401.0	1408.8	1415.8	1419.7	1425.2	1429.1	1431.5	1433.0	1431.5	1432.3
22.5°	1368.1	1375.9	1386.1	1391.6	1399.4	1404.1	1409.9	1410.4	1414.3	1410.4	1411.9
25°	1336.0	1343.9	1351.7	1363.4	1370.5	1375.9	1381.4	1382.2	1386.1	1385.3	1384.5
27.5°	1282.8	1293.0	1306.3	1315.7	1325.1	1333.7	1340.0	1341.5	1345.4	1343.9	1344.6
30°	1210.1	1221.1	1233.6	1248.4	1261.7	1270.3	1278.2	1283.6	1287.5	1285.2	1284.4
32.5°	1106.9	1117.8	1131.1	1146.0	1161.6	1174.1	1183.5	1190.6	1195.2	1193.7	1189.8
35°	988.7	991.9	1000.5	1012.2	1025.5	1038.8	1047.4	1055.2	1060.7	1062.3	1062.3
37.5°	867.5	857.3	851.1	851.1	858.9	864.4	872.2	876.9	885.5	888.6	891.0
40°	750.1	726.7	704.8	688.4	677.4	676.6	676.6	679.0	686.8	697.0	706.4
42.5°	645.3	607.8	574.2	543.6	521.8	509.2	503.8	504.5	510.8	520.2	535.8
45°	561.6	514.7	472.5	435.7	406.0	386.4	377.0	376.3	380.9	391.9	409.1
47.5°	496.7	446.6	398.9	356.7	324.6	303.5	292.6	289.4	292.6	302.7	323.1
50°	442.7	391.1	341.8	298.0	263.6	241.7	231.5	227.6	231.5	240.1	260.5
52.5°	392.7	339.5	293.3	251.1	214.3	195.6	184.6	182.2	184.6	194.8	211.2
55°	334.8	289.4	244.1	201.8	169.8	151.0	142.4	140.0	142.4	151.8	169.0
57.5°	277.7	238.6	198.7	160.4	133.0	116.5	108.7	105.6	111.1	117.3	137.7
60°	224.5	193.2	159.6	125.9	103.3	88.4	82.1	81.3	82.9	90.7	104.8
62.5°	176.0	150.2	123.6	96.2	77.4	71.2	63.4	62.6	64.1	68.8	79.8
65°	126.7	110.3	90.0	70.4	55.5	46.9	43.8	44.6	46.1	49.3	59.4
67.5°	88.4	76.7	62.6	49.3	38.3	34.4	31.3	30.5	31.3	36.8	42.2
70°	59.4	52.4	42.2	37.6	26.6	21.1	21.9	19.6	22.7	22.7	27.4
72.5°	39.1	34.4	28.2	21.9	18.8	14.9	14.9	14.1	15.6	16.4	20.3
75°	20.3	15.6	15.6	10.9	7.8	3.9	7.0	6.3	5.5	6.3	7.8
77.5°	14.1	11.7	10.9	8.6	7.8	6.3	6.3	6.3	6.3	7.0	7.8
80°	8.6	8.6	6.3	5.5	4.7	3.9	4.7	4.7	4.7	4.7	5.5
82.5°	5.5	4.7	4.7	3.9	3.9	3.1	3.1	3.1	3.1	3.1	4.7
85°	4.7	3.1	3.1	2.4	3.1	5.5	2.4	3.1	3.1	3.1	2.4
87.5°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	3.9	3.1
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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CATALOG NUMBER: LD8B30D010 ER8B30940 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1459.6	1460.4	1460.4	1459.6	1459.6	1458.1	1461.2	1458.9	1459.6	1462.8	1460.4
5°	1461.2	1462.0	1462.0	1461.2	1461.2	1461.2	1462.0	1462.0	1461.2	1460.4	1462.0
7.5°	1464.3	1463.5	1463.5	1462.0	1462.0	1460.4	1462.0	1459.6	1461.2	1459.6	1462.0
10°	1460.4	1461.2	1460.4	1459.6	1459.6	1458.9	1458.9	1456.5	1457.3	1454.9	1456.5
12.5°	1458.1	1457.3	1457.3	1455.7	1454.2	1452.6	1451.8	1449.5	1449.5	1444.0	1446.3
15°	1451.8	1452.6	1450.2	1447.1	1445.6	1441.6	1440.1	1436.9	1433.8	1429.9	1430.7
17.5°	1446.3	1444.0	1440.9	1437.7	1431.5	1428.3	1425.2	1420.5	1418.9	1414.3	1412.7
20°	1429.9	1428.3	1424.4	1418.9	1415.0	1408.0	1404.9	1400.2	1396.3	1391.6	1389.2
22.5°	1408.8	1407.2	1402.5	1397.1	1390.8	1387.7	1384.5	1375.9	1372.0	1367.3	1366.5
25°	1382.2	1379.8	1375.2	1368.9	1365.8	1357.2	1354.0	1347.8	1346.2	1341.5	1340.7
27.5°	1341.5	1338.4	1332.9	1325.1	1319.6	1314.1	1311.0	1306.3	1304.8	1300.1	1299.3
30°	1280.5	1276.6	1265.6	1262.5	1253.1	1247.6	1247.6	1241.4	1242.2	1239.1	1239.1
32.5°	1184.3	1178.0	1169.4	1163.2	1156.9	1153.8	1153.8	1151.4	1153.0	1153.0	1154.6
35°	1056.8	1048.2	1043.5	1039.6	1039.6	1042.7	1052.1	1054.4	1059.1	1063.0	1066.2
37.5°	893.3	892.5	898.0	902.7	914.4	927.7	944.1	958.2	971.5	980.9	990.3
40°	716.5	736.1	751.7	773.6	791.6	817.4	847.1	871.4	894.1	910.5	927.7
42.5°	559.3	584.3	617.2	649.2	681.3	716.5	755.6	789.3	819.0	841.7	859.7
45°	435.7	470.1	510.0	550.7	592.1	636.0	676.6	711.0	742.3	765.8	783.8
47.5°	351.2	388.8	434.1	478.7	525.7	571.8	617.2	646.9	672.7	691.5	707.9
50°	290.2	330.1	377.8	428.7	475.6	521.8	560.9	589.8	610.9	627.3	637.5
52.5°	242.5	284.7	335.6	386.4	433.3	475.6	510.8	532.7	549.9	561.6	571.0
55°	200.2	240.9	288.6	336.4	382.5	422.4	451.3	467.8	481.1	488.1	493.6
57.5°	163.5	201.0	244.8	288.6	328.5	361.4	384.1	400.5	406.8	412.2	411.4
60°	128.3	163.5	203.4	240.9	275.3	301.9	318.4	327.8	332.4	334.8	333.2
62.5°	100.9	133.0	163.5	196.3	221.4	244.1	259.7	259.7	262.0	262.8	265.2
65°	75.1	99.3	125.9	150.2	170.5	185.4	194.0	196.3	199.5	198.7	197.1
67.5°	55.5	73.5	93.1	111.1	125.2	134.5	140.8	146.3	145.5	143.9	143.1
70°	38.3	50.1	67.3	78.2	88.4	97.8	99.3	100.1	100.9	101.7	100.1
72.5°	26.6	35.2	44.6	54.0	60.2	64.1	68.1	68.8	68.8	68.8	68.1
75°	13.3	18.0	26.6	30.5	36.0	37.6	40.7	40.7	43.0	39.9	39.1
77.5°	11.7	14.1	18.8	21.9	24.3	26.6	27.4	29.7	28.9	27.4	28.2
80°	7.0	8.6	11.7	13.3	16.4	17.2	18.0	18.8	18.0	18.8	18.8
82.5°	5.5	6.3	7.8	7.8	10.2	10.2	10.9	10.9	11.7	11.7	11.7
85°	3.1	5.5	4.7	9.4	6.3	6.3	7.8	9.4	7.8	7.8	9.4
87.5°	3.1	3.1	2.4	3.1	3.1	3.1	3.9	4.7	4.7	5.5	4.7
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: P246225

CATALOG NUMBER: LD8B30D010 ER8B30940 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1457.3	1457.3	1457.3	1457.3
2.5°	1459.6	1461.2	1458.9	1458.1
5°	1462.0	1462.0	1460.4	1460.4
7.5°	1462.0	1462.0	1459.6	1458.1
10°	1455.7	1455.7	1453.4	1451.8
12.5°	1444.0	1444.0	1443.2	1440.9
15°	1429.1	1429.1	1426.0	1423.7
17.5°	1408.8	1410.4	1406.4	1406.4
20°	1386.9	1386.1	1383.0	1381.4
22.5°	1364.2	1362.6	1361.9	1357.2
25°	1340.0	1338.4	1336.0	1333.7
27.5°	1298.5	1297.7	1295.4	1292.2
30°	1235.1	1234.3	1231.2	1231.2
32.5°	1153.0	1152.2	1149.1	1149.9
35°	1067.7	1070.9	1069.3	1066.2
37.5°	996.6	998.9	1000.5	998.9
40°	937.1	944.1	944.9	946.5
42.5°	873.8	883.1	886.3	887.8
45°	797.9	806.5	813.5	811.9
47.5°	720.4	726.7	732.9	728.3
50°	646.1	650.0	652.4	652.4
52.5°	575.7	575.7	574.9	575.7
55°	495.1	495.1	492.0	493.6
57.5°	410.7	412.2	409.9	406.0
60°	332.4	328.5	327.0	324.6
62.5°	258.9	258.9	253.4	260.5
65°	194.0	191.6	189.3	188.5
67.5°	140.8	140.0	137.7	136.9
70°	99.3	96.2	95.4	93.9
72.5°	66.5	66.5	64.9	64.9
75°	40.7	36.8	36.0	36.8
77.5°	28.2	27.4	27.4	26.6
80°	18.8	18.0	19.6	17.2
82.5°	11.7	12.5	11.7	12.5
85°	7.8	9.4	8.6	8.6
87.5°	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)