

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: P246117

Luminaire Tested: **LD8B30D010 ER8B30835 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246117  
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 ER8B30835 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2775.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

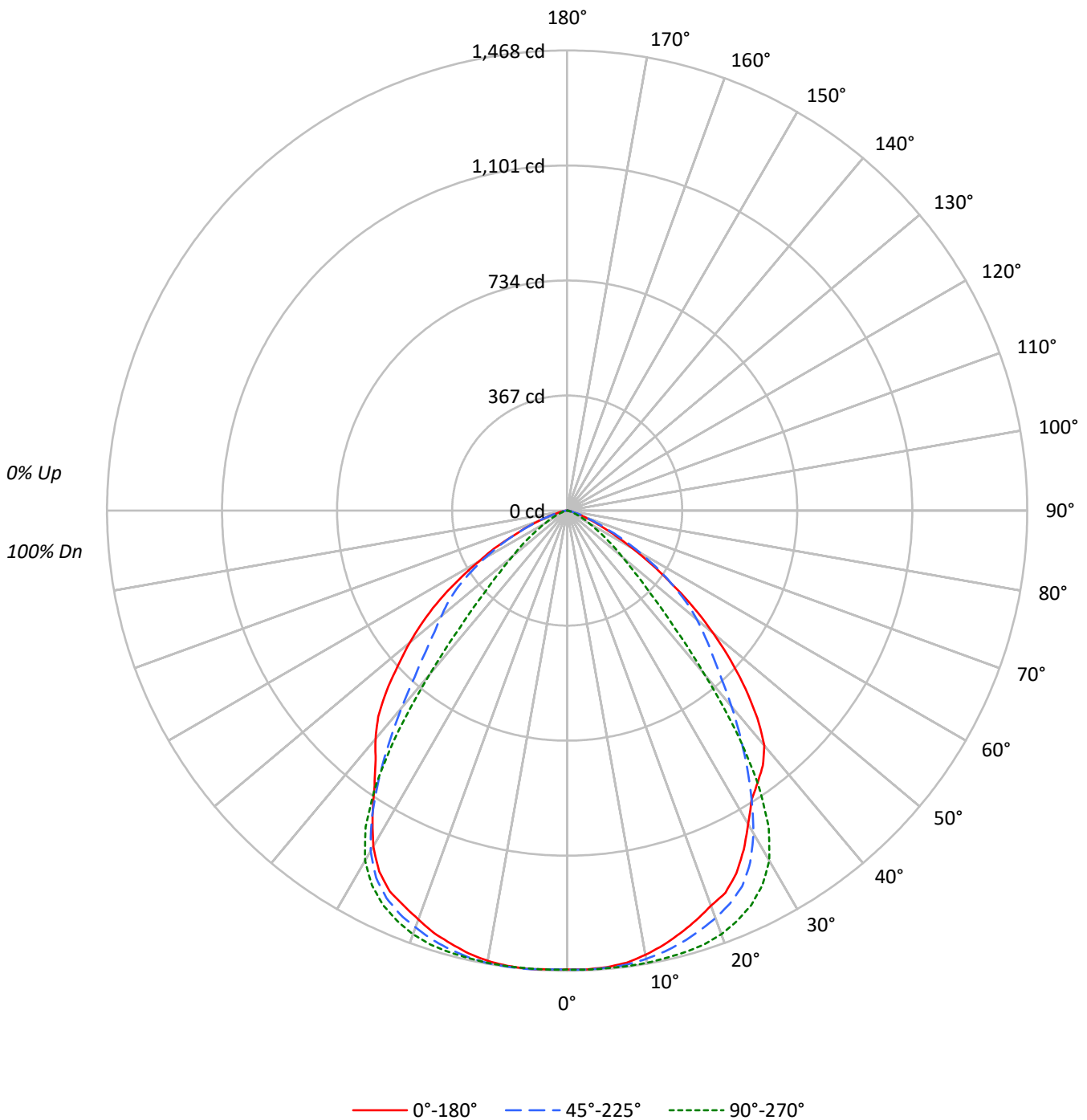
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74		81	77	73		79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66		74	69	65		72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	45147	45147	45147
5°	45249	45369	45419
10°	45058	45869	45672
15°	44560	46542	45664
20°	44025	47195	45544
25°	43452	47249	45592
30°	41108	45922	44045
35°	39880	39910	40324
40°	39388	27461	38282
45°	35097	16484	35576
50°	29182	10971	31446
55°	21886	7564	26660
60°	14832	5039	20118
65°	8946	3269	13820
70°	4959	1776	8502
75°	2252	751	4396
80°	1953	835	3072
85°	2229	1097	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	5.0
10°-20°	405.8	14.6
20°-30°	615.9	22.2
30°-40°	646.9	23.3
40°-50°	485.0	17.5
50°-60°	311.2	11.2
60°-70°	133.1	4.8
70°-80°	31.5	1.1
80°-90°	5.9	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°	1161.5	41.9
0°-40°	1808.4	65.2
0°-60°	2604.6	93.9
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1464	1464	1464	1464	1464	
5°	1462	1464	1466	1468	1467	139
15°	1396	1425	1458	1448	1430	394
25°	1277	1322	1389	1364	1340	583
35°	1059	1000	1060	1048	1071	665
45°	805	658	378	639	816	616
55°	407	407	141	424	496	369
65°	123	145	45	186	189	131
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°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1464.9	1466.5	1465.7	1465.7	1464.9	1465.7	1465.7	1467.3	1467.3	1465.7	1464.9
5°	1461.8	1463.4	1463.4	1461.8	1461.8	1465.7	1463.4	1464.9	1464.9	1464.1	1464.1
7.5°	1454.7	1454.7	1457.9	1455.5	1455.5	1457.9	1457.1	1458.6	1460.2	1461.0	1461.0
10°	1439.0	1440.6	1441.4	1441.4	1442.1	1444.5	1446.1	1449.2	1450.8	1452.4	1453.1
12.5°	1419.4	1421.7	1422.5	1421.7	1424.1	1427.2	1431.1	1435.1	1437.4	1440.6	1442.9
15°	1395.8	1395.8	1397.3	1399.7	1401.3	1406.0	1409.9	1414.6	1420.9	1424.9	1428.8
17.5°	1369.8	1371.4	1373.8	1373.8	1376.9	1384.8	1387.1	1394.2	1401.3	1405.2	1413.1
20°	1341.6	1343.1	1345.5	1347.1	1351.0	1357.3	1362.0	1368.3	1376.1	1383.2	1391.1
22.5°	1319.5	1316.4	1318.0	1319.5	1323.5	1329.0	1334.5	1342.3	1350.2	1357.3	1365.1
25°	1277.1	1277.9	1280.2	1281.8	1286.5	1291.2	1297.5	1307.0	1314.0	1321.9	1330.5
27.5°	1219.7	1220.5	1224.4	1224.4	1228.4	1236.2	1240.2	1248.0	1257.5	1265.3	1275.5
30°	1154.5	1156.1	1156.1	1159.2	1161.6	1165.5	1169.4	1177.3	1182.0	1189.1	1203.2
32.5°	1094.8	1096.3	1095.5	1094.8	1092.4	1091.6	1090.8	1092.4	1094.0	1096.3	1101.8
35°	1059.4	1055.5	1052.3	1046.8	1040.5	1032.7	1025.6	1016.2	1007.5	1000.5	992.6
37.5°	1025.6	1024.8	1020.1	1012.2	999.7	985.5	969.0	948.6	928.2	906.2	884.9
40°	978.5	976.1	972.2	961.2	947.0	929.7	907.7	882.6	849.6	815.8	781.2
42.5°	898.3	899.1	894.4	885.7	872.4	855.8	833.1	805.6	770.2	730.1	685.3
45°	804.8	804.8	803.2	796.1	786.7	773.3	756.0	733.3	698.7	657.8	609.9
47.5°	707.3	708.1	705.7	704.2	700.2	691.6	679.0	661.7	637.4	598.1	550.1
50°	608.3	608.3	612.2	611.4	611.4	608.3	602.8	592.6	571.4	539.9	495.1
52.5°	509.3	510.8	513.2	516.3	520.3	526.6	520.3	515.6	502.2	477.8	439.3
55°	407.1	408.7	412.6	418.1	422.8	429.1	430.7	430.7	423.6	407.1	378.0
57.5°	319.9	317.5	320.7	325.4	331.7	337.9	342.7	348.2	347.4	336.4	312.8
60°	240.5	241.3	243.6	248.4	253.1	258.6	264.9	269.6	271.9	266.4	251.5
62.5°	175.3	175.3	178.4	183.1	185.5	193.3	197.3	199.6	202.0	201.2	191.8
65°	122.6	124.2	125.7	128.1	130.5	135.2	137.5	142.2	143.8	144.6	137.5
67.5°	86.5	84.1	85.7	87.2	89.6	92.7	97.5	97.5	99.8	99.8	95.1
70°	55.0	55.0	55.8	58.2	59.7	60.5	62.1	63.7	66.0	65.2	65.2
72.5°	36.9	36.2	36.9	37.7	38.5	40.9	40.9	41.7	43.2	44.0	40.9
75°	18.9	19.7	21.2	20.4	22.8	21.2	22.0	24.4	23.6	22.0	22.0
77.5°	15.7	15.7	15.7	14.9	16.5	16.5	15.7	17.3	16.5	16.5	15.7
80°	11.0	11.8	11.0	10.2	11.0	10.2	10.2	10.2	10.2	10.2	9.4
82.5°	8.7	7.1	7.9	7.1	7.9	7.9	7.1	6.3	6.3	7.1	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: P246117

CATALOG NUMBER: LD8B30D010 ER8B30835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1466.5	1465.7	1467.3	1466.5	1466.5	1465.7	1466.5	1465.7	1467.3	1464.1	1464.9
5°	1466.5	1464.9	1465.7	1466.5	1467.3	1465.7	1465.7	1465.7	1467.3	1465.7	1466.5
7.5°	1463.4	1462.6	1464.9	1466.5	1465.7	1464.9	1466.5	1465.7	1467.3	1466.5	1468.1
10°	1457.1	1457.9	1459.4	1461.8	1462.6	1463.4	1464.9	1464.9	1467.3	1464.1	1465.7
12.5°	1447.6	1450.8	1454.7	1456.3	1459.4	1459.4	1461.0	1461.8	1463.4	1462.6	1464.9
15°	1435.9	1439.8	1444.5	1448.4	1452.4	1454.7	1457.1	1457.9	1460.2	1457.9	1458.6
17.5°	1421.7	1426.4	1433.5	1438.2	1444.5	1446.9	1450.0	1451.6	1453.9	1452.4	1453.1
20°	1402.1	1407.6	1415.4	1422.5	1426.4	1431.9	1435.9	1438.2	1439.8	1438.2	1439.0
22.5°	1374.6	1382.4	1392.6	1398.1	1406.0	1410.7	1411.5	1417.0	1420.9	1417.0	1418.6
25°	1342.3	1350.2	1358.1	1369.8	1376.9	1382.4	1387.9	1388.7	1392.6	1391.8	1391.1
27.5°	1288.9	1299.1	1312.5	1321.9	1331.3	1340.0	1346.3	1347.8	1351.8	1350.2	1351.0
30°	1215.8	1226.8	1239.4	1254.3	1267.7	1276.3	1284.2	1289.7	1293.6	1291.2	1290.5
32.5°	1112.1	1123.1	1136.4	1151.4	1167.1	1179.6	1189.1	1196.2	1200.9	1199.3	1195.4
35°	993.4	996.5	1005.2	1017.0	1030.3	1043.7	1052.3	1060.2	1065.7	1067.3	1067.3
37.5°	871.6	861.4	855.1	855.1	862.9	868.4	876.3	881.0	889.7	892.8	895.2
40°	753.7	730.1	708.1	691.6	680.6	679.8	679.8	682.2	690.0	700.2	709.7
42.5°	648.4	610.6	576.9	546.2	524.2	511.6	506.1	506.9	513.2	522.6	538.3
45°	564.3	517.1	474.7	437.7	407.9	388.2	378.8	378.0	382.7	393.7	411.0
47.5°	499.1	448.7	400.8	358.4	326.2	304.9	293.9	290.8	293.9	304.1	324.6
50°	444.8	393.0	343.4	299.4	264.9	242.9	232.6	228.7	232.6	241.3	261.7
52.5°	394.5	341.1	294.7	252.3	215.3	196.5	185.5	183.1	185.5	195.7	212.2
55°	336.4	290.8	245.2	202.8	170.5	151.7	143.0	140.7	143.0	152.5	169.8
57.5°	279.0	239.7	199.6	161.1	133.6	117.1	109.2	106.1	111.6	117.9	138.3
60°	225.5	194.1	160.3	126.5	103.7	88.8	82.5	81.7	83.3	91.2	105.3
62.5°	176.8	150.9	124.2	96.7	77.8	71.5	63.7	62.9	64.4	69.2	80.2
65°	127.3	110.8	90.4	70.7	55.8	47.2	44.0	44.8	46.4	49.5	59.7
67.5°	88.8	77.0	62.9	49.5	38.5	34.6	31.4	30.7	31.4	36.9	42.4
70°	59.7	52.7	42.4	37.7	26.7	21.2	22.0	19.7	22.8	22.8	27.5
72.5°	39.3	34.6	28.3	22.0	18.9	14.9	14.9	14.2	15.7	16.5	20.4
75°	20.4	15.7	15.7	11.0	7.9	3.9	7.1	6.3	5.5	6.3	7.9
77.5°	14.2	11.8	11.0	8.7	7.9	6.3	6.3	6.3	6.3	7.1	7.9
80°	8.7	8.7	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



TEST NUMBER: P246117

CATALOG NUMBER: LD8B30D010 ER8B30835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1466.5	1467.3	1467.3	1466.5	1466.5	1464.9	1468.1	1465.7	1466.5	1469.6	1467.3
5°	1468.1	1468.9	1468.9	1468.1	1468.1	1468.1	1468.9	1468.9	1468.1	1467.3	1468.9
7.5°	1471.2	1470.4	1470.4	1468.9	1468.9	1467.3	1468.9	1466.5	1468.1	1466.5	1468.9
10°	1467.3	1468.1	1467.3	1466.5	1466.5	1465.7	1465.7	1463.4	1464.1	1461.8	1463.4
12.5°	1464.9	1464.1	1464.1	1462.6	1461.0	1459.4	1458.6	1456.3	1456.3	1450.8	1453.1
15°	1458.6	1459.4	1457.1	1453.9	1452.4	1448.4	1446.9	1443.7	1440.6	1436.6	1437.4
17.5°	1453.1	1450.8	1447.6	1444.5	1438.2	1435.1	1431.9	1427.2	1425.6	1420.9	1419.4
20°	1436.6	1435.1	1431.1	1425.6	1421.7	1414.6	1411.5	1406.8	1402.8	1398.1	1395.8
22.5°	1415.4	1413.8	1409.1	1403.6	1397.3	1394.2	1391.1	1382.4	1378.5	1373.8	1373.0
25°	1388.7	1386.3	1381.6	1375.3	1372.2	1363.6	1360.4	1354.1	1352.6	1347.8	1347.1
27.5°	1347.8	1344.7	1339.2	1331.3	1325.8	1320.3	1317.2	1312.5	1310.9	1306.2	1305.4
30°	1286.5	1282.6	1271.6	1268.5	1259.0	1253.5	1253.5	1247.2	1248.0	1244.9	1244.9
32.5°	1189.9	1183.6	1174.9	1168.6	1162.4	1159.2	1159.2	1156.9	1158.4	1158.4	1160.0
35°	1061.8	1053.1	1048.4	1044.5	1044.5	1047.6	1057.0	1059.4	1064.1	1068.0	1071.2
37.5°	897.5	896.7	902.2	906.9	918.7	932.1	948.6	962.7	976.1	985.5	995.0
40°	719.9	739.5	755.3	777.3	795.3	821.3	851.1	875.5	898.3	914.8	932.1
42.5°	561.9	587.1	620.1	652.3	684.5	719.9	759.2	793.0	822.8	845.6	863.7
45°	437.7	472.3	512.4	553.3	594.9	639.0	679.8	714.4	745.8	769.4	787.5
47.5°	352.9	390.6	436.2	481.0	528.1	574.5	620.1	650.0	675.9	694.7	711.3
50°	291.6	331.7	379.6	430.7	477.8	524.2	563.5	592.6	613.8	630.3	640.5
52.5°	243.6	286.1	337.2	388.2	435.4	477.8	513.2	535.2	552.5	564.3	573.7
55°	201.2	242.1	290.0	337.9	384.3	424.4	453.5	470.0	483.3	490.4	495.9
57.5°	164.3	202.0	246.0	290.0	330.1	363.1	385.9	402.4	408.7	414.2	413.4
60°	128.9	164.3	204.3	242.1	276.6	303.4	319.9	329.3	334.0	336.4	334.8
62.5°	101.4	133.6	164.3	197.3	222.4	245.2	260.9	260.9	263.3	264.1	266.4
65°	75.4	99.8	126.5	150.9	171.3	186.3	194.9	197.3	200.4	199.6	198.0
67.5°	55.8	73.9	93.5	111.6	125.7	135.2	141.5	147.0	146.2	144.6	143.8
70°	38.5	50.3	67.6	78.6	88.8	98.2	99.8	100.6	101.4	102.2	100.6
72.5°	26.7	35.4	44.8	54.2	60.5	64.4	68.4	69.2	69.2	69.2	68.4
75°	13.4	18.1	26.7	30.7	36.2	37.7	40.9	40.9	43.2	40.1	39.3
77.5°	11.8	14.2	18.9	22.0	24.4	26.7	27.5	29.9	29.1	27.5	28.3
80°	7.1	8.7	11.8	13.4	16.5	17.3	18.1	18.9	18.1	18.9	18.9
82.5°	5.5	6.3	7.9	7.9	10.2	10.2	11.0	11.0	11.8	11.8	11.8
85°	3.1	5.5	4.7	9.4	6.3	6.3	7.9	9.4	7.9	7.9	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: P246117

CATALOG NUMBER: LD8B30D010 ER8B30835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1464.1	1464.1	1464.1	1464.1
2.5°	1466.5	1468.1	1465.7	1464.9
5°	1468.9	1468.9	1467.3	1467.3
7.5°	1468.9	1468.9	1466.5	1464.9
10°	1462.6	1462.6	1460.2	1458.6
12.5°	1450.8	1450.8	1450.0	1447.6
15°	1435.9	1435.9	1432.7	1430.4
17.5°	1415.4	1417.0	1413.1	1413.1
20°	1393.4	1392.6	1389.5	1387.9
22.5°	1370.6	1369.1	1368.3	1363.6
25°	1346.3	1344.7	1342.3	1340.0
27.5°	1304.6	1303.8	1301.5	1298.3
30°	1240.9	1240.2	1237.0	1237.0
32.5°	1158.4	1157.6	1154.5	1155.3
35°	1072.8	1075.9	1074.3	1071.2
37.5°	1001.2	1003.6	1005.2	1003.6
40°	941.5	948.6	949.4	951.0
42.5°	877.9	887.3	890.4	892.0
45°	801.6	810.3	817.3	815.8
47.5°	723.8	730.1	736.4	731.7
50°	649.2	653.1	655.5	655.5
52.5°	578.4	578.4	577.6	578.4
55°	497.5	497.5	494.3	495.9
57.5°	412.6	414.2	411.8	407.9
60°	334.0	330.1	328.5	326.2
62.5°	260.1	260.1	254.6	261.7
65°	194.9	192.5	190.2	189.4
67.5°	141.5	140.7	138.3	137.5
70°	99.8	96.7	95.9	94.3
72.5°	66.8	66.8	65.2	65.2
75°	40.9	36.9	36.2	36.9
77.5°	28.3	27.5	27.5	26.7
80°	18.9	18.1	19.7	17.3
82.5°	11.8	12.6	11.8	12.6
85°	7.9	9.4	8.7	8.7
87.5°	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)