

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: P246177

Luminaire Tested: **LD8B30D010 ER8B30827 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246177  
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 ER8B30827 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2909.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

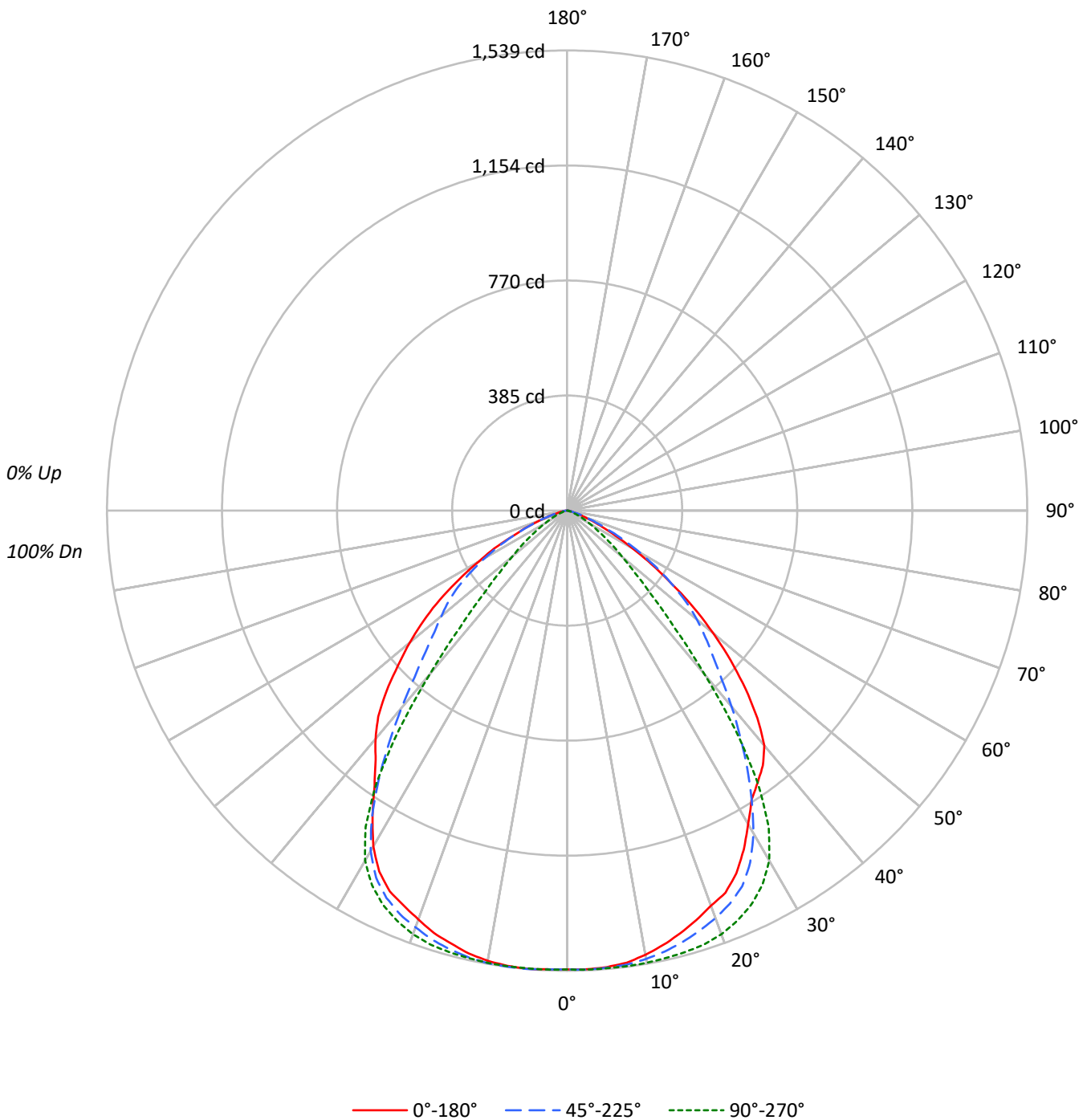
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	47328	47328	47328
5°	47434	47561	47614
10°	47234	48086	47879
15°	46711	48790	47867
20°	46148	49476	47743
25°	45551	49532	47794
30°	43095	48137	46175
35°	41808	41838	42271
40°	41288	28786	40129
45°	36789	17282	37295
50°	30592	11499	32962
55°	22945	7930	27945
60°	15548	5285	21086
65°	9376	3429	14484
70°	5202	1857	8917
75°	2359	786	4611
80°	2042	870	3214
85°	2335	1168	3220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	5.0
10°-20°	425.4	14.6
20°-30°	645.7	22.2
30°-40°	678.1	23.3
40°-50°	508.4	17.5
50°-60°	326.2	11.2
60°-70°	139.6	4.8
70°-80°	33.0	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°	1217.5	41.9
0°-40°	1895.7	65.2
0°-60°	2730.4	93.9
0°-90°	2909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1535	1535	1535	1535	1535	
5°	1532	1535	1536	1539	1538	146
15°	1463	1494	1528	1518	1499	413
25°	1339	1386	1456	1429	1405	612
35°	1111	1049	1111	1098	1123	697
45°	844	690	396	670	855	646
55°	427	427	148	445	520	387
65°	128	152	47	195	198	137
75°	20	23	7	40	39	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°	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8
2.5°	1535.7	1537.3	1536.5	1536.5	1535.7	1536.5	1536.5	1538.2	1538.2	1536.5	1535.7
5°	1532.4	1534.0	1534.0	1532.4	1532.4	1536.5	1534.0	1535.7	1535.7	1534.8	1534.8
7.5°	1525.0	1525.0	1528.3	1525.8	1525.8	1528.3	1527.4	1529.1	1530.7	1531.6	1531.6
10°	1508.5	1510.1	1511.0	1511.0	1511.8	1514.2	1515.9	1519.2	1520.8	1522.5	1523.3
12.5°	1487.9	1490.4	1491.2	1490.4	1492.8	1496.1	1500.3	1504.4	1506.8	1510.1	1512.6
15°	1463.2	1463.2	1464.8	1467.3	1468.9	1473.9	1478.0	1482.9	1489.5	1493.7	1497.8
17.5°	1436.0	1437.6	1440.1	1440.1	1443.4	1451.6	1454.1	1461.5	1468.9	1473.1	1481.3
20°	1406.3	1408.0	1410.4	1412.1	1416.2	1422.8	1427.7	1434.3	1442.6	1450.0	1458.2
22.5°	1383.3	1380.0	1381.6	1383.3	1387.4	1393.2	1398.9	1407.1	1415.4	1422.8	1431.0
25°	1338.8	1339.6	1342.1	1343.7	1348.7	1353.6	1360.2	1370.1	1377.5	1385.7	1394.8
27.5°	1278.6	1279.5	1283.6	1283.6	1287.7	1295.9	1300.0	1308.3	1318.2	1326.4	1337.1
30°	1210.3	1211.9	1211.9	1215.2	1217.7	1221.8	1225.9	1234.1	1239.1	1246.5	1261.3
32.5°	1147.6	1149.3	1148.4	1147.6	1145.2	1144.3	1143.5	1145.2	1146.8	1149.3	1155.0
35°	1110.6	1106.4	1103.2	1097.4	1090.8	1082.5	1075.1	1065.3	1056.2	1048.8	1040.5
37.5°	1075.1	1074.3	1069.4	1061.1	1047.9	1033.1	1015.8	994.4	973.0	949.9	927.7
40°	1025.7	1023.2	1019.1	1007.6	992.7	974.6	951.6	925.2	890.6	855.2	818.9
42.5°	941.7	942.5	937.6	928.5	914.5	897.2	873.3	844.5	807.4	765.4	718.4
45°	843.6	843.6	842.0	834.6	824.7	810.7	792.6	768.7	732.4	689.6	639.3
47.5°	741.5	742.3	739.8	738.2	734.1	725.0	711.8	693.7	668.2	626.9	576.7
50°	637.7	637.7	641.8	641.0	641.0	637.7	631.9	621.2	598.9	566.0	519.0
52.5°	533.9	535.5	538.0	541.3	545.4	552.0	545.4	540.4	526.4	500.9	460.5
55°	426.8	428.4	432.5	438.3	443.2	449.8	451.5	451.5	444.1	426.8	396.3
57.5°	335.3	332.8	336.1	341.1	347.7	354.3	359.2	365.0	364.1	352.6	327.9
60°	252.1	252.9	255.4	260.3	265.3	271.1	277.6	282.6	285.1	279.3	263.6
62.5°	183.7	183.7	187.0	191.9	194.4	202.7	206.8	209.3	211.7	210.9	201.0
65°	128.5	130.2	131.8	134.3	136.8	141.7	144.2	149.1	150.8	151.6	144.2
67.5°	90.6	88.2	89.8	91.4	93.9	97.2	102.2	102.2	104.6	104.6	99.7
70°	57.7	57.7	58.5	61.0	62.6	63.4	65.1	66.7	69.2	68.4	68.4
72.5°	38.7	37.9	38.7	39.6	40.4	42.8	42.8	43.7	45.3	46.1	42.8
75°	19.8	20.6	22.2	21.4	23.9	22.2	23.1	25.5	24.7	23.1	23.1
77.5°	16.5	16.5	16.5	15.7	17.3	17.3	16.5	18.1	17.3	17.3	16.5
80°	11.5	12.4	11.5	10.7	11.5	10.7	10.7	10.7	10.7	10.7	9.9
82.5°	9.1	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	5.8	5.8	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	1.7
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°	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8
2.5°	1537.3	1536.5	1538.2	1537.3	1537.3	1536.5	1537.3	1536.5	1538.2	1534.8	1535.7
5°	1537.3	1535.7	1536.5	1537.3	1538.2	1536.5	1536.5	1536.5	1538.2	1536.5	1537.3
7.5°	1534.0	1533.2	1535.7	1537.3	1536.5	1535.7	1537.3	1536.5	1538.2	1537.3	1539.0
10°	1527.4	1528.3	1529.9	1532.4	1533.2	1534.0	1535.7	1535.7	1538.2	1534.8	1536.5
12.5°	1517.5	1520.8	1525.0	1526.6	1529.9	1529.9	1531.6	1532.4	1534.0	1533.2	1535.7
15°	1505.2	1509.3	1514.2	1518.4	1522.5	1525.0	1527.4	1528.3	1530.7	1528.3	1529.1
17.5°	1490.4	1495.3	1502.7	1507.7	1514.2	1516.7	1520.0	1521.7	1524.1	1522.5	1523.3
20°	1469.8	1475.5	1483.8	1491.2	1495.3	1501.1	1505.2	1507.7	1509.3	1507.7	1508.5
22.5°	1440.9	1449.2	1459.9	1465.6	1473.9	1478.8	1479.7	1485.4	1489.5	1485.4	1487.1
25°	1407.1	1415.4	1423.6	1436.0	1443.4	1449.2	1454.9	1455.8	1459.9	1459.0	1458.2
27.5°	1351.1	1361.8	1375.8	1385.7	1395.6	1404.7	1411.3	1412.9	1417.0	1415.4	1416.2
30°	1274.5	1286.0	1299.2	1314.9	1328.9	1337.9	1346.2	1351.9	1356.1	1353.6	1352.8
32.5°	1165.8	1177.3	1191.3	1206.9	1223.4	1236.6	1246.5	1253.9	1258.9	1257.2	1253.1
35°	1041.4	1044.7	1053.7	1066.1	1080.1	1094.1	1103.2	1111.4	1117.1	1118.8	1118.8
37.5°	913.7	903.0	896.4	896.4	904.6	910.4	918.6	923.5	932.6	935.9	938.4
40°	790.1	765.4	742.3	725.0	713.5	712.6	712.6	715.1	723.3	734.1	743.9
42.5°	679.7	640.1	604.7	572.6	549.5	536.3	530.6	531.4	538.0	547.9	564.3
45°	591.5	542.1	497.6	458.9	427.6	407.0	397.1	396.3	401.2	412.7	430.9
47.5°	523.2	470.4	420.2	375.7	341.9	319.7	308.1	304.8	308.1	318.8	340.3
50°	466.3	411.9	360.0	313.9	277.6	254.6	243.9	239.7	243.9	252.9	274.3
52.5°	413.6	357.6	308.9	264.5	225.7	206.0	194.4	191.9	194.4	205.1	222.4
55°	352.6	304.8	257.0	212.6	178.8	159.0	149.9	147.5	149.9	159.8	178.0
57.5°	292.5	251.3	209.3	168.9	140.1	122.7	114.5	111.2	117.0	123.6	145.0
60°	236.4	203.5	168.1	132.6	108.8	93.1	86.5	85.7	87.3	95.6	110.4
62.5°	185.4	158.2	130.2	101.3	81.6	75.0	66.7	65.9	67.6	72.5	84.0
65°	133.5	116.2	94.7	74.1	58.5	49.4	46.1	47.0	48.6	51.9	62.6
67.5°	93.1	80.7	65.9	51.9	40.4	36.2	33.0	32.1	33.0	38.7	44.5
70°	62.6	55.2	44.5	39.6	28.0	22.2	23.1	20.6	23.9	23.9	28.8
72.5°	41.2	36.2	29.7	23.1	19.8	15.7	15.7	14.8	16.5	17.3	21.4
75°	21.4	16.5	16.5	11.5	8.2	4.1	7.4	6.6	5.8	6.6	8.2
77.5°	14.8	12.4	11.5	9.1	8.2	6.6	6.6	6.6	6.6	7.4	8.2
80°	9.1	9.1	6.6	5.8	4.9	4.1	4.9	4.9	4.9	4.9	5.8
82.5°	5.8	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	5.8	2.5	3.3	3.3	3.3	2.5
87.5°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8	1534.8
2.5°	1537.3	1538.2	1538.2	1537.3	1537.3	1535.7	1539.0	1536.5	1537.3	1540.6	1538.2
5°	1539.0	1539.8	1539.8	1539.0	1539.0	1539.0	1539.8	1539.8	1539.0	1538.2	1539.8
7.5°	1542.3	1541.4	1541.4	1539.8	1539.8	1538.2	1539.8	1537.3	1539.0	1537.3	1539.8
10°	1538.2	1539.0	1538.2	1537.3	1537.3	1536.5	1536.5	1534.0	1534.8	1532.4	1534.0
12.5°	1535.7	1534.8	1534.8	1533.2	1531.6	1529.9	1529.1	1526.6	1526.6	1520.8	1523.3
15°	1529.1	1529.9	1527.4	1524.1	1522.5	1518.4	1516.7	1513.4	1510.1	1506.0	1506.8
17.5°	1523.3	1520.8	1517.5	1514.2	1507.7	1504.4	1501.1	1496.1	1494.5	1489.5	1487.9
20°	1506.0	1504.4	1500.3	1494.5	1490.4	1482.9	1479.7	1474.7	1470.6	1465.6	1463.2
22.5°	1483.8	1482.1	1477.2	1471.4	1464.8	1461.5	1458.2	1449.2	1445.0	1440.1	1439.3
25°	1455.8	1453.3	1448.3	1441.8	1438.4	1429.4	1426.1	1419.5	1417.9	1412.9	1412.1
27.5°	1412.9	1409.6	1403.9	1395.6	1389.8	1384.1	1380.8	1375.8	1374.2	1369.2	1368.4
30°	1348.7	1344.5	1333.0	1329.7	1319.8	1314.1	1314.1	1307.5	1308.3	1305.0	1305.0
32.5°	1247.3	1240.7	1231.7	1225.1	1218.5	1215.2	1215.2	1212.7	1214.4	1214.4	1216.0
35°	1113.0	1104.0	1099.0	1094.9	1094.9	1098.2	1108.1	1110.6	1115.5	1119.6	1122.9
37.5°	940.8	940.0	945.8	950.7	963.1	977.1	994.4	1009.2	1023.2	1033.1	1043.0
40°	754.7	775.3	791.7	814.8	833.7	860.9	892.2	917.8	941.7	959.0	977.1
42.5°	589.1	615.4	650.0	683.8	717.6	754.7	795.9	831.3	862.6	886.5	905.4
45°	458.9	495.1	537.2	580.0	623.7	669.8	712.6	748.9	781.8	806.6	825.5
47.5°	369.9	409.5	457.2	504.2	553.6	602.2	650.0	681.3	708.5	728.3	745.6
50°	305.6	347.7	397.9	451.5	500.9	549.5	590.7	621.2	643.4	660.7	671.4
52.5°	255.4	299.9	353.4	407.0	456.4	500.9	538.0	561.1	579.2	591.5	601.4
55°	210.9	253.8	304.0	354.3	402.9	444.9	475.4	492.7	506.7	514.1	519.8
57.5°	172.2	211.7	257.9	304.0	346.0	380.6	404.5	421.8	428.4	434.2	433.3
60°	135.1	172.2	214.2	253.8	290.0	318.0	335.3	345.2	350.1	352.6	351.0
62.5°	106.3	140.1	172.2	206.8	233.2	257.0	273.5	273.5	276.0	276.8	279.3
65°	79.1	104.6	132.6	158.2	179.6	195.3	204.3	206.8	210.1	209.3	207.6
67.5°	58.5	77.4	98.0	117.0	131.8	141.7	148.3	154.1	153.2	151.6	150.8
70°	40.4	52.7	70.9	82.4	93.1	103.0	104.6	105.4	106.3	107.1	105.4
72.5°	28.0	37.1	47.0	56.8	63.4	67.6	71.7	72.5	72.5	72.5	71.7
75°	14.0	18.9	28.0	32.1	37.9	39.6	42.8	42.8	45.3	42.0	41.2
77.5°	12.4	14.8	19.8	23.1	25.5	28.0	28.8	31.3	30.5	28.8	29.7
80°	7.4	9.1	12.4	14.0	17.3	18.1	18.9	19.8	18.9	19.8	19.8
82.5°	5.8	6.6	8.2	8.2	10.7	10.7	11.5	11.5	12.4	12.4	12.4
85°	3.3	5.8	4.9	9.9	6.6	6.6	8.2	9.9	8.2	8.2	9.9
87.5°	3.3	3.3	2.5	3.3	3.3	3.3	4.1	4.9	4.9	5.8	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: P246177

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1534.8	1534.8	1534.8	1534.8
2.5°	1537.3	1539.0	1536.5	1535.7
5°	1539.8	1539.8	1538.2	1538.2
7.5°	1539.8	1539.8	1537.3	1535.7
10°	1533.2	1533.2	1530.7	1529.1
12.5°	1520.8	1520.8	1520.0	1517.5
15°	1505.2	1505.2	1501.9	1499.4
17.5°	1483.8	1485.4	1481.3	1481.3
20°	1460.7	1459.9	1456.6	1454.9
22.5°	1436.8	1435.2	1434.3	1429.4
25°	1411.3	1409.6	1407.1	1404.7
27.5°	1367.6	1366.8	1364.3	1361.0
30°	1300.9	1300.0	1296.8	1296.8
32.5°	1214.4	1213.5	1210.3	1211.1
35°	1124.6	1127.9	1126.2	1122.9
37.5°	1049.6	1052.1	1053.7	1052.1
40°	987.0	994.4	995.2	996.9
42.5°	920.3	930.1	933.4	935.1
45°	840.3	849.4	856.8	855.2
47.5°	758.8	765.4	771.9	767.0
50°	680.5	684.6	687.1	687.1
52.5°	606.4	606.4	605.5	606.4
55°	521.5	521.5	518.2	519.8
57.5°	432.5	434.2	431.7	427.6
60°	350.1	346.0	344.4	341.9
62.5°	272.7	272.7	266.9	274.3
65°	204.3	201.8	199.4	198.5
67.5°	148.3	147.5	145.0	144.2
70°	104.6	101.3	100.5	98.9
72.5°	70.0	70.0	68.4	68.4
75°	42.8	38.7	37.9	38.7
77.5°	29.7	28.8	28.8	28.0
80°	19.8	18.9	20.6	18.1
82.5°	12.4	13.2	12.4	13.2
85°	8.2	9.9	9.1	9.1
87.5°	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)