

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: P246033

Luminaire Tested: **LD8B30D010 ER8B30827 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246033  
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 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2876.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

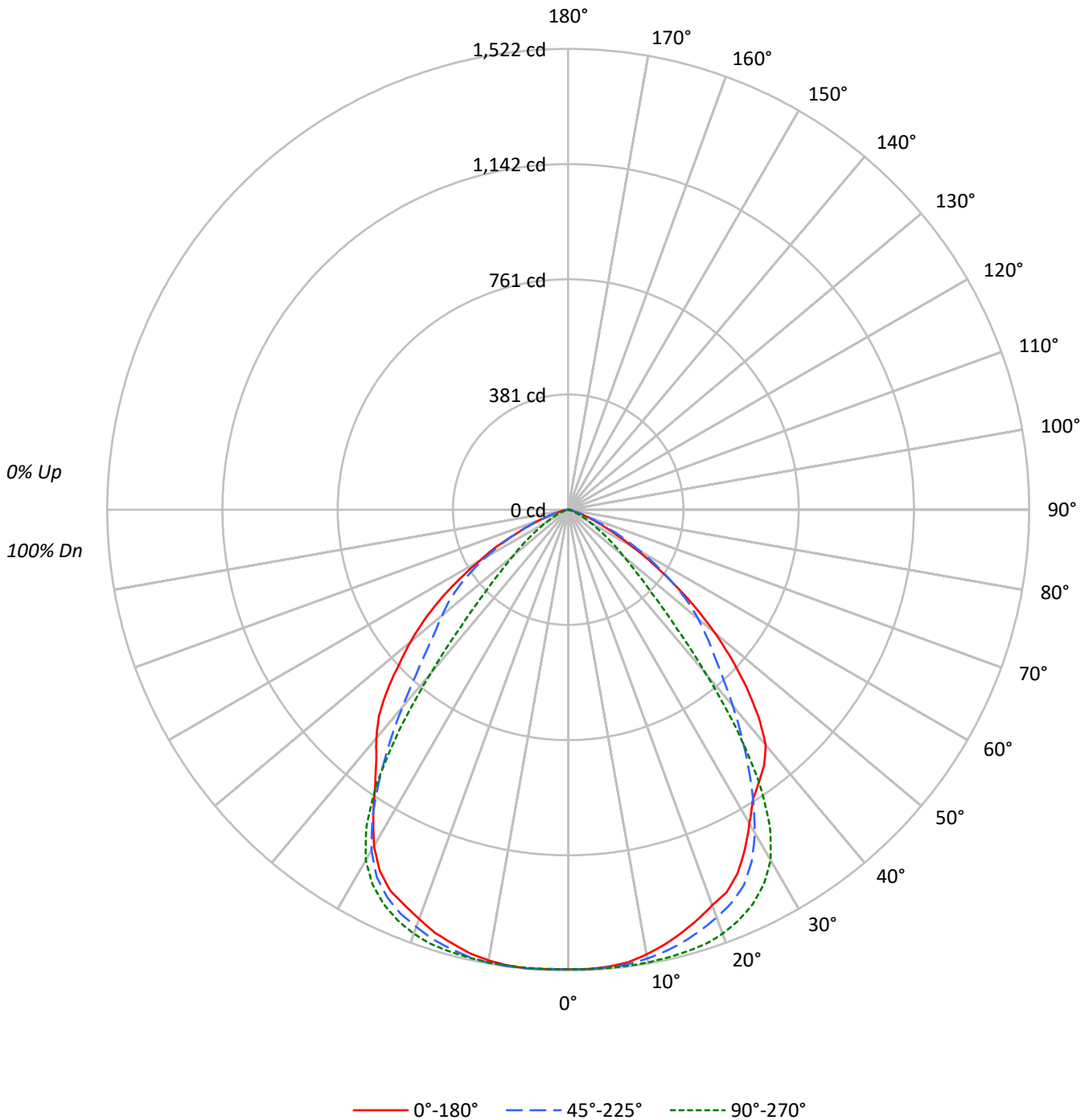
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	46791	46791	46791
5°	46895	47022	47072
10°	46699	47541	47334
15°	46181	48234	47324
20°	45626	48911	47202
25°	45034	48967	47249
30°	42603	47592	45648
35°	41333	41363	41793
40°	40822	28460	39674
45°	36374	17086	36872
50°	30242	11370	32588
55°	22682	7838	27628
60°	15369	5224	20845
65°	9274	3386	14323
70°	5139	1839	8809
75°	2335	774	4563
80°	2024	870	3179
85°	2300	1132	3184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	5.0
10°-20°	420.6	14.6
20°-30°	638.3	22.2
30°-40°	670.5	23.3
40°-50°	502.7	17.5
50°-60°	322.5	11.2
60°-70°	138.0	4.8
70°-80°	32.6	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°	1203.7	41.9
0°-40°	1874.2	65.2
0°-60°	2699.4	93.9
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1517	1517	1517	1517	1517	
5°	1515	1517	1519	1522	1521	144
15°	1447	1477	1511	1501	1482	408
25°	1324	1370	1439	1413	1389	605
35°	1098	1037	1099	1086	1110	689
45°	834	682	392	662	846	639
55°	422	422	146	440	514	383
65°	127	150	46	193	196	136
75°	20	23	6	39	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°	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1518.3	1519.9	1519.1	1519.1	1518.3	1519.1	1519.1	1520.7	1520.7	1519.1	1518.3
5°	1515.0	1516.6	1516.6	1515.0	1515.0	1519.1	1516.6	1518.3	1518.3	1517.4	1517.4
7.5°	1507.7	1507.7	1510.9	1508.5	1508.5	1510.9	1510.1	1511.7	1513.4	1514.2	1514.2
10°	1491.4	1493.0	1493.8	1493.8	1494.6	1497.1	1498.7	1502.0	1503.6	1505.2	1506.0
12.5°	1471.0	1473.4	1474.3	1473.4	1475.9	1479.1	1483.2	1487.3	1489.8	1493.0	1495.5
15°	1446.6	1446.6	1448.2	1450.6	1452.3	1457.2	1461.2	1466.1	1472.6	1476.7	1480.8
17.5°	1419.7	1421.3	1423.8	1423.8	1427.0	1435.2	1437.6	1444.9	1452.3	1456.3	1464.5
20°	1390.4	1392.0	1394.4	1396.1	1400.1	1406.7	1411.5	1418.1	1426.2	1433.5	1441.7
22.5°	1367.6	1364.3	1365.9	1367.6	1371.6	1377.3	1383.0	1391.2	1399.3	1406.7	1414.8
25°	1323.6	1324.4	1326.8	1328.5	1333.4	1338.2	1344.8	1354.5	1361.9	1370.0	1379.0
27.5°	1264.1	1264.9	1269.0	1269.0	1273.1	1281.2	1285.3	1293.4	1303.2	1311.4	1322.0
30°	1196.5	1198.1	1198.1	1201.4	1203.8	1207.9	1212.0	1220.1	1225.0	1232.4	1247.0
32.5°	1134.6	1136.2	1135.4	1134.6	1132.2	1131.4	1130.5	1132.2	1133.8	1136.2	1141.9
35°	1098.0	1093.9	1090.6	1084.9	1078.4	1070.3	1062.9	1053.2	1044.2	1036.9	1028.7
37.5°	1062.9	1062.1	1057.2	1049.1	1036.1	1021.4	1004.3	983.1	961.9	939.1	917.1
40°	1014.1	1011.6	1007.6	996.2	981.5	963.6	940.8	914.7	880.5	845.5	809.6
42.5°	931.0	931.8	926.9	917.9	904.1	887.0	863.4	834.9	798.2	756.7	710.3
45°	834.1	834.1	832.4	825.1	815.3	801.5	783.6	759.9	724.1	681.7	632.1
47.5°	733.1	733.9	731.4	729.8	725.7	716.8	703.7	685.8	660.6	619.8	570.2
50°	630.4	630.4	634.5	633.7	633.7	630.4	624.7	614.1	592.2	559.6	513.2
52.5°	527.8	529.4	531.9	535.1	539.2	545.7	539.2	534.3	520.5	495.2	455.3
55°	421.9	423.5	427.6	433.3	438.2	444.7	446.3	446.3	439.0	421.9	391.8
57.5°	331.5	329.1	332.3	337.2	343.7	350.2	355.1	360.8	360.0	348.6	324.2
60°	249.2	250.1	252.5	257.4	262.3	268.0	274.5	279.4	281.8	276.1	260.6
62.5°	181.6	181.6	184.9	189.8	192.2	200.4	204.4	206.9	209.3	208.5	198.7
65°	127.1	128.7	130.3	132.8	135.2	140.1	142.5	147.4	149.1	149.9	142.5
67.5°	89.6	87.2	88.8	90.4	92.9	96.1	101.0	101.0	103.4	103.4	98.6
70°	57.0	57.0	57.8	60.3	61.9	62.7	64.4	66.0	68.4	67.6	67.6
72.5°	38.3	37.5	38.3	39.1	39.9	42.4	42.4	43.2	44.8	45.6	42.4
75°	19.6	20.4	22.0	21.2	23.6	22.0	22.8	25.3	24.4	22.8	22.8
77.5°	16.3	16.3	16.3	15.5	17.1	17.1	16.3	17.9	17.1	17.1	16.3
80°	11.4	12.2	11.4	10.6	11.4	10.6	10.6	10.6	10.6	10.6	9.8
82.5°	9.0	7.3	8.2	7.3	8.2	8.2	7.3	6.5	6.5	7.3	6.5
85°	6.5	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	3.2	3.2	3.2	2.5	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°	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1519.9	1519.1	1520.7	1519.9	1519.9	1519.1	1519.9	1519.1	1520.7	1517.4	1518.3
5°	1519.9	1518.3	1519.1	1519.9	1520.7	1519.1	1519.1	1519.1	1520.7	1519.1	1519.9
7.5°	1516.6	1515.8	1518.3	1519.9	1519.1	1518.3	1519.9	1519.1	1520.7	1519.9	1521.5
10°	1510.1	1510.9	1512.6	1515.0	1515.8	1516.6	1518.3	1518.3	1520.7	1517.4	1519.1
12.5°	1500.3	1503.6	1507.7	1509.3	1512.6	1512.6	1514.2	1515.0	1516.6	1515.8	1518.3
15°	1488.1	1492.2	1497.1	1501.2	1505.2	1507.7	1510.1	1510.9	1513.4	1510.9	1511.7
17.5°	1473.4	1478.3	1485.7	1490.5	1497.1	1499.5	1502.8	1504.4	1506.9	1505.2	1506.0
20°	1453.1	1458.8	1466.9	1474.3	1478.3	1484.0	1488.1	1490.5	1492.2	1490.5	1491.4
22.5°	1424.6	1432.7	1443.3	1449.0	1457.2	1462.0	1462.9	1468.6	1472.6	1468.6	1470.2
25°	1391.2	1399.3	1407.5	1419.7	1427.0	1432.7	1438.4	1439.2	1443.3	1442.5	1441.7
27.5°	1335.8	1346.4	1360.2	1370.0	1379.8	1388.7	1395.3	1396.9	1401.0	1399.3	1400.1
30°	1260.0	1271.5	1284.5	1300.0	1313.8	1322.8	1330.9	1336.6	1340.7	1338.2	1337.4
32.5°	1152.5	1163.9	1177.8	1193.3	1209.6	1222.6	1232.4	1239.7	1244.6	1242.9	1238.9
35°	1029.6	1032.8	1041.8	1054.0	1067.8	1081.7	1090.6	1098.8	1104.5	1106.1	1106.1
37.5°	903.3	892.7	886.2	886.2	894.3	900.0	908.2	913.1	922.0	925.3	927.7
40°	781.1	756.7	733.9	716.8	705.4	704.6	704.6	707.0	715.1	725.7	735.5
42.5°	672.0	632.9	597.9	566.1	543.3	530.3	524.6	525.4	531.9	541.7	557.9
45°	584.8	536.0	492.0	453.7	422.7	402.4	392.6	391.8	396.7	408.1	426.0
47.5°	517.2	465.1	415.4	371.4	338.0	316.0	304.6	301.4	304.6	315.2	336.4
50°	461.0	407.3	355.9	310.3	274.5	251.7	241.1	237.0	241.1	250.1	271.2
52.5°	408.9	353.5	305.4	261.5	223.2	203.6	192.2	189.8	192.2	202.8	219.9
55°	348.6	301.4	254.1	210.1	176.8	157.2	148.2	145.8	148.2	158.0	175.9
57.5°	289.2	248.4	206.9	167.0	138.5	121.4	113.2	110.0	115.7	122.2	143.4
60°	233.8	201.2	166.2	131.1	107.5	92.0	85.5	84.7	86.3	94.5	109.1
62.5°	183.3	156.4	128.7	100.2	80.6	74.1	66.0	65.2	66.8	71.7	83.1
65°	132.0	114.9	93.7	73.3	57.8	48.9	45.6	46.4	48.1	51.3	61.9
67.5°	92.0	79.8	65.2	51.3	39.9	35.8	32.6	31.8	32.6	38.3	44.0
70°	61.9	54.6	44.0	39.1	27.7	22.0	22.8	20.4	23.6	23.6	28.5
72.5°	40.7	35.8	29.3	22.8	19.6	15.5	15.5	14.7	16.3	17.1	21.2
75°	21.2	16.3	16.3	11.4	8.2	4.1	7.3	6.5	5.7	6.5	8.2
77.5°	14.7	12.2	11.4	9.0	8.2	6.5	6.5	6.5	6.5	7.3	8.2
80°	9.0	9.0	6.5	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	3.2	3.2	3.2	3.2	3.2	4.9
85°	4.9	3.2	3.2	2.5	3.2	5.7	2.5	3.2	3.2	3.2	2.5
87.5°	1.6	2.5	2.5	2.5	1.6	0.8	1.6	2.5	2.5	4.1	3.2
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°	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1519.9	1520.7	1520.7	1519.9	1519.9	1518.3	1521.5	1519.1	1519.9	1523.1	1520.7
5°	1521.5	1522.3	1522.3	1521.5	1521.5	1521.5	1522.3	1522.3	1521.5	1520.7	1522.3
7.5°	1524.8	1524.0	1524.0	1522.3	1522.3	1520.7	1522.3	1519.9	1521.5	1519.9	1522.3
10°	1520.7	1521.5	1520.7	1519.9	1519.9	1519.1	1519.1	1516.6	1517.4	1515.0	1516.6
12.5°	1518.3	1517.4	1517.4	1515.8	1514.2	1512.6	1511.7	1509.3	1509.3	1503.6	1506.0
15°	1511.7	1512.6	1510.1	1506.9	1505.2	1501.2	1499.5	1496.2	1493.0	1488.9	1489.8
17.5°	1506.0	1503.6	1500.3	1497.1	1490.5	1487.3	1484.0	1479.1	1477.5	1472.6	1471.0
20°	1488.9	1487.3	1483.2	1477.5	1473.4	1466.1	1462.9	1458.0	1453.9	1449.0	1446.6
22.5°	1466.9	1465.3	1460.4	1454.7	1448.2	1444.9	1441.7	1432.7	1428.6	1423.8	1422.9
25°	1439.2	1436.8	1431.9	1425.4	1422.1	1413.2	1409.9	1403.4	1401.8	1396.9	1396.1
27.5°	1396.9	1393.6	1387.9	1379.8	1374.1	1368.4	1365.1	1360.2	1358.6	1353.7	1352.9
30°	1333.4	1329.3	1317.9	1314.6	1304.8	1299.1	1299.1	1292.6	1293.4	1290.2	1290.2
32.5°	1233.2	1226.7	1217.7	1211.2	1204.7	1201.4	1201.4	1199.0	1200.6	1200.6	1202.2
35°	1100.4	1091.5	1086.6	1082.5	1082.5	1085.7	1095.5	1098.0	1102.9	1106.9	1110.2
37.5°	930.2	929.4	935.1	939.9	952.2	966.0	983.1	997.8	1011.6	1021.4	1031.2
40°	746.1	766.5	782.7	805.6	824.3	851.2	882.1	907.4	931.0	948.1	966.0
42.5°	582.4	608.4	642.7	676.0	709.4	746.1	786.8	821.8	852.8	876.4	895.1
45°	453.7	489.5	531.1	573.4	616.6	662.2	704.6	740.4	773.0	797.4	816.1
47.5°	365.7	404.8	452.0	498.5	547.4	595.4	642.7	673.6	700.5	720.0	737.1
50°	302.2	343.7	393.4	446.3	495.2	543.3	584.0	614.1	636.1	653.2	663.8
52.5°	252.5	296.5	349.4	402.4	451.2	495.2	531.9	554.7	572.6	584.8	594.6
55°	208.5	250.9	300.6	350.2	398.3	439.8	470.0	487.1	500.9	508.2	513.9
57.5°	170.2	209.3	254.9	300.6	342.1	376.3	399.9	417.0	423.5	429.2	428.4
60°	133.6	170.2	211.8	250.9	286.7	314.4	331.5	341.3	346.2	348.6	347.0
62.5°	105.1	138.5	170.2	204.4	230.5	254.1	270.4	270.4	272.9	273.7	276.1
65°	78.2	103.4	131.1	156.4	177.6	193.0	202.0	204.4	207.7	206.9	205.3
67.5°	57.8	76.6	96.9	115.7	130.3	140.1	146.6	152.3	151.5	149.9	149.1
70°	39.9	52.1	70.1	81.5	92.0	101.8	103.4	104.3	105.1	105.9	104.3
72.5°	27.7	36.7	46.4	56.2	62.7	66.8	70.9	71.7	71.7	71.7	70.9
75°	13.9	18.7	27.7	31.8	37.5	39.1	42.4	42.4	44.8	41.5	40.7
77.5°	12.2	14.7	19.6	22.8	25.3	27.7	28.5	31.0	30.1	28.5	29.3
80°	7.3	9.0	12.2	13.9	17.1	17.9	18.7	19.6	18.7	19.6	19.6
82.5°	5.7	6.5	8.2	8.2	10.6	10.6	11.4	11.4	12.2	12.2	12.2
85°	3.2	5.7	4.9	9.8	6.5	6.5	8.2	9.8	8.2	8.2	9.8
87.5°	3.2	3.2	2.5	3.2	3.2	3.2	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: P246033

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1517.4	1517.4	1517.4	1517.4
2.5°	1519.9	1521.5	1519.1	1518.3
5°	1522.3	1522.3	1520.7	1520.7
7.5°	1522.3	1522.3	1519.9	1518.3
10°	1515.8	1515.8	1513.4	1511.7
12.5°	1503.6	1503.6	1502.8	1500.3
15°	1488.1	1488.1	1484.8	1482.4
17.5°	1466.9	1468.6	1464.5	1464.5
20°	1444.1	1443.3	1440.1	1438.4
22.5°	1420.5	1418.9	1418.1	1413.2
25°	1395.3	1393.6	1391.2	1388.7
27.5°	1352.1	1351.3	1348.8	1345.6
30°	1286.1	1285.3	1282.0	1282.0
32.5°	1200.6	1199.8	1196.5	1197.3
35°	1111.8	1115.1	1113.4	1110.2
37.5°	1037.7	1040.1	1041.8	1040.1
40°	975.8	983.1	983.9	985.6
42.5°	909.8	919.6	922.8	924.5
45°	830.8	839.8	847.1	845.5
47.5°	750.2	756.7	763.2	758.3
50°	672.8	676.9	679.3	679.3
52.5°	599.5	599.5	598.7	599.5
55°	515.6	515.6	512.3	513.9
57.5°	427.6	429.2	426.8	422.7
60°	346.2	342.1	340.5	338.0
62.5°	269.6	269.6	263.9	271.2
65°	202.0	199.6	197.1	196.3
67.5°	146.6	145.8	143.4	142.5
70°	103.4	100.2	99.4	97.7
72.5°	69.2	69.2	67.6	67.6
75°	42.4	38.3	37.5	38.3
77.5°	29.3	28.5	28.5	27.7
80°	19.6	18.7	20.4	17.9
82.5°	12.2	13.0	12.2	13.0
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)