

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: P246189

Luminaire Tested: **LD8B30D010 ER8B30835 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246189  
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 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3101.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

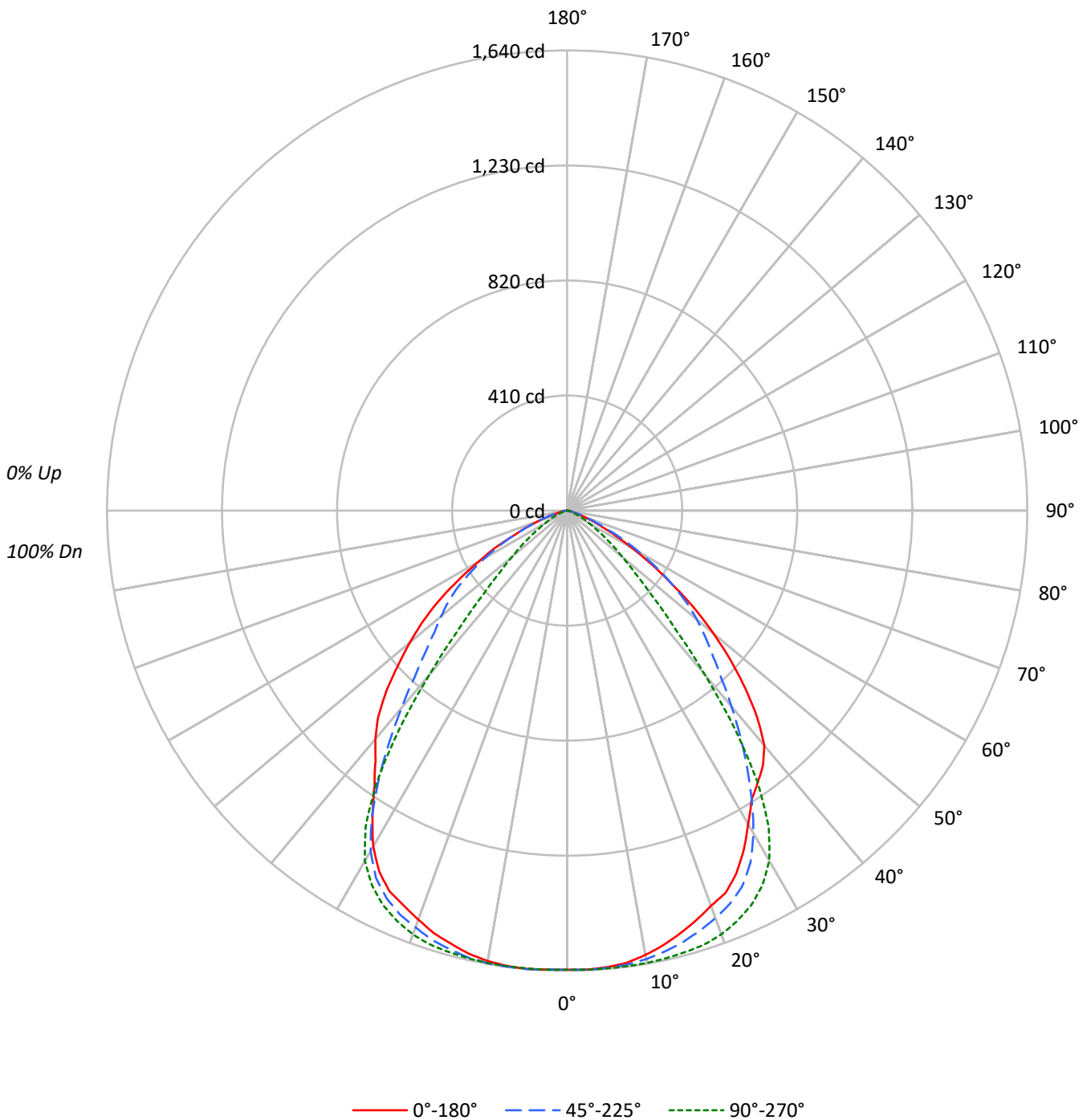
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	50451	50451	50451
5°	50564	50700	50755
10°	50350	51258	51039
15°	49792	52008	51027
20°	49197	52741	50897
25°	48556	52799	50948
30°	45936	51316	49219
35°	44567	44597	45060
40°	44014	30686	42778
45°	39218	18420	39754
50°	32612	12262	35140
55°	24456	8451	29795
60°	16571	5631	22480
65°	9996	3656	15439
70°	5545	1984	9503
75°	2514	834	4921
80°	2184	941	3427
85°	2477	1238	3432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	5.0
10°-20°	453.5	14.6
20°-30°	688.3	22.2
30°-40°	722.9	23.3
40°-50°	542.0	17.5
50°-60°	347.8	11.2
60°-70°	148.8	4.8
70°-80°	35.1	1.1
80°-90°	6.5	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°	1297.9	41.9
0°-40°	2020.8	65.2
0°-60°	2910.6	93.9
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1636	1636	1636	1636	1636	
5°	1634	1636	1638	1640	1640	155
15°	1560	1592	1629	1619	1598	440
25°	1427	1477	1552	1524	1497	652
35°	1184	1118	1185	1171	1197	743
45°	899	735	422	714	912	689
55°	455	455	157	474	554	413
65°	137	162	50	208	212	146
75°	21	25	7	42	41	31
85°	7	4	4	7	10	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°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1
2.5°	1637.0	1638.8	1637.9	1637.9	1637.0	1637.9	1637.9	1639.7	1639.7	1637.9	1637.0
5°	1633.5	1635.3	1635.3	1633.5	1633.5	1637.9	1635.3	1637.0	1637.0	1636.1	1636.1
7.5°	1625.6	1625.6	1629.1	1626.5	1626.5	1629.1	1628.2	1630.0	1631.8	1632.6	1632.6
10°	1608.0	1609.8	1610.7	1610.7	1611.6	1614.2	1615.9	1619.5	1621.2	1623.0	1623.9
12.5°	1586.1	1588.7	1589.6	1588.7	1591.4	1594.9	1599.3	1603.7	1606.3	1609.8	1612.4
15°	1559.7	1559.7	1561.5	1564.1	1565.9	1571.2	1575.5	1580.8	1587.8	1592.2	1596.6
17.5°	1530.8	1532.5	1535.2	1535.2	1538.7	1547.4	1550.1	1558.0	1565.9	1570.3	1579.1
20°	1499.2	1500.9	1503.5	1505.3	1509.7	1516.7	1522.0	1529.0	1537.8	1545.7	1554.5
22.5°	1474.6	1471.0	1472.8	1474.6	1479.0	1485.1	1491.2	1500.0	1508.8	1516.7	1525.5
25°	1427.1	1428.0	1430.6	1432.4	1437.7	1442.9	1450.0	1460.5	1468.4	1477.2	1486.8
27.5°	1363.0	1363.9	1368.3	1368.3	1372.7	1381.5	1385.8	1394.6	1405.2	1414.0	1425.4
30°	1290.1	1291.9	1291.9	1295.4	1298.0	1302.4	1306.8	1315.6	1320.9	1328.8	1344.6
32.5°	1223.4	1225.1	1224.2	1223.4	1220.7	1219.9	1219.0	1220.7	1222.5	1225.1	1231.3
35°	1183.9	1179.5	1176.0	1169.8	1162.8	1154.0	1146.1	1135.6	1125.9	1118.0	1109.2
37.5°	1146.1	1145.2	1139.9	1131.2	1117.1	1101.3	1082.9	1060.0	1037.2	1012.6	988.9
40°	1093.4	1090.8	1086.4	1074.1	1058.3	1038.9	1014.4	986.3	949.4	911.6	873.0
42.5°	1003.8	1004.7	999.4	989.8	974.8	956.4	930.9	900.2	860.7	815.9	765.8
45°	899.3	899.3	897.6	889.6	879.1	864.2	844.9	819.4	780.8	735.1	681.5
47.5°	790.4	791.3	788.6	786.9	782.5	772.9	758.8	739.5	712.3	668.3	614.8
50°	679.8	679.8	684.1	683.3	683.3	679.8	673.6	662.2	638.5	603.3	553.3
52.5°	569.1	570.9	573.5	577.0	581.4	588.4	581.4	576.1	561.2	534.0	490.9
55°	454.9	456.7	461.1	467.2	472.5	479.5	481.3	481.3	473.4	454.9	422.4
57.5°	357.4	354.8	358.3	363.6	370.6	377.6	382.9	389.1	388.2	375.9	349.5
60°	268.7	269.6	272.2	277.5	282.8	288.9	296.0	301.2	303.9	297.7	281.0
62.5°	195.9	195.9	199.4	204.6	207.3	216.0	220.4	223.1	225.7	224.8	214.3
65°	137.0	138.8	140.5	143.2	145.8	151.0	153.7	159.0	160.7	161.6	153.7
67.5°	96.6	94.0	95.7	97.5	100.1	103.6	108.9	108.9	111.5	111.5	106.3
70°	61.5	61.5	62.4	65.0	66.7	67.6	69.4	71.1	73.8	72.9	72.9
72.5°	41.3	40.4	41.3	42.2	43.0	45.7	45.7	46.5	48.3	49.2	45.7
75°	21.1	22.0	23.7	22.8	25.5	23.7	24.6	27.2	26.3	24.6	24.6
77.5°	17.6	17.6	17.6	16.7	18.4	18.4	17.6	19.3	18.4	18.4	17.6
80°	12.3	13.2	12.3	11.4	12.3	11.4	11.4	11.4	11.4	11.4	10.5
82.5°	9.7	7.9	8.8	7.9	8.8	8.8	7.9	7.0	7.0	7.9	7.0
85°	7.0	5.3	6.1	6.1	5.3	5.3	5.3	5.3	5.3	4.4	4.4
87.5°	4.4	2.6	2.6	2.6	3.5	3.5	3.5	2.6	3.5	3.5	1.8
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°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1
2.5°	1638.8	1637.9	1639.7	1638.8	1638.8	1637.9	1638.8	1637.9	1639.7	1636.1	1637.0
5°	1638.8	1637.0	1637.9	1638.8	1639.7	1637.9	1637.9	1637.9	1639.7	1637.9	1638.8
7.5°	1635.3	1634.4	1637.0	1638.8	1637.9	1637.0	1638.8	1637.9	1639.7	1638.8	1640.5
10°	1628.2	1629.1	1630.9	1633.5	1634.4	1635.3	1637.0	1637.0	1639.7	1636.1	1637.9
12.5°	1617.7	1621.2	1625.6	1627.4	1630.9	1630.9	1632.6	1633.5	1635.3	1634.4	1637.0
15°	1604.5	1608.9	1614.2	1618.6	1623.0	1625.6	1628.2	1629.1	1631.8	1629.1	1630.0
17.5°	1588.7	1594.0	1601.9	1607.2	1614.2	1616.8	1620.3	1622.1	1624.7	1623.0	1623.9
20°	1566.8	1572.9	1581.7	1589.6	1594.0	1600.1	1604.5	1607.2	1608.9	1607.2	1608.0
22.5°	1536.0	1544.8	1556.2	1562.4	1571.2	1576.4	1577.3	1583.5	1587.8	1583.5	1585.2
25°	1500.0	1508.8	1517.6	1530.8	1538.7	1544.8	1551.0	1551.8	1556.2	1555.4	1554.5
27.5°	1440.3	1451.7	1466.6	1477.2	1487.7	1497.4	1504.4	1506.2	1510.6	1508.8	1509.7
30°	1358.6	1370.9	1385.0	1401.7	1416.6	1426.2	1435.0	1441.2	1445.6	1442.9	1442.1
32.5°	1242.7	1255.0	1269.9	1286.6	1304.2	1318.2	1328.8	1336.7	1341.9	1340.2	1335.8
35°	1110.1	1113.6	1123.3	1136.4	1151.4	1166.3	1176.0	1184.7	1190.9	1192.6	1192.6
37.5°	974.0	962.6	955.5	955.5	964.3	970.4	979.2	984.5	994.2	997.7	1000.3
40°	842.2	815.9	791.3	772.9	760.6	759.7	759.7	762.3	771.1	782.5	793.1
42.5°	724.5	682.4	644.6	610.4	585.8	571.7	565.6	566.5	573.5	584.0	601.6
45°	630.6	577.9	530.5	489.2	455.8	433.8	423.3	422.4	427.7	440.0	459.3
47.5°	557.7	501.5	447.9	400.5	364.5	340.8	328.5	325.0	328.5	339.9	362.7
50°	497.1	439.1	383.8	334.6	296.0	271.4	260.0	255.6	260.0	269.6	292.4
52.5°	440.9	381.2	329.3	281.9	240.6	219.6	207.3	204.6	207.3	218.7	237.1
55°	375.9	325.0	274.0	226.6	190.6	169.5	159.8	157.2	159.8	170.4	189.7
57.5°	311.8	267.9	223.1	180.0	149.3	130.8	122.1	118.6	124.7	131.7	154.6
60°	252.0	216.9	179.2	141.4	115.9	99.2	92.2	91.3	93.1	101.9	117.7
62.5°	197.6	168.6	138.8	108.0	86.9	79.9	71.1	70.3	72.0	77.3	89.6
65°	142.3	123.8	101.0	79.0	62.4	52.7	49.2	50.1	51.8	55.3	66.7
67.5°	99.2	86.1	70.3	55.3	43.0	38.6	35.1	34.3	35.1	41.3	47.4
70°	66.7	58.8	47.4	42.2	29.9	23.7	24.6	22.0	25.5	25.5	30.7
72.5°	43.9	38.6	31.6	24.6	21.1	16.7	16.7	15.8	17.6	18.4	22.8
75°	22.8	17.6	17.6	12.3	8.8	4.4	7.9	7.0	6.1	7.0	8.8
77.5°	15.8	13.2	12.3	9.7	8.8	7.0	7.0	7.0	7.0	7.9	8.8
80°	9.7	9.7	7.0	6.1	5.3	4.4	5.3	5.3	5.3	5.3	6.1
82.5°	6.1	5.3	5.3	4.4	4.4	3.5	3.5	3.5	3.5	3.5	5.3
85°	5.3	3.5	3.5	2.6	3.5	6.1	2.6	3.5	3.5	3.5	2.6
87.5°	1.8	2.6	2.6	2.6	1.8	0.9	1.8	2.6	2.6	4.4	3.5
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°	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1	1636.1
2.5°	1638.8	1639.7	1639.7	1638.8	1638.8	1637.0	1640.5	1637.9	1638.8	1642.3	1639.7
5°	1640.5	1641.4	1641.4	1640.5	1640.5	1640.5	1641.4	1641.4	1640.5	1639.7	1641.4
7.5°	1644.1	1643.2	1643.2	1641.4	1641.4	1639.7	1641.4	1638.8	1640.5	1638.8	1641.4
10°	1639.7	1640.5	1639.7	1638.8	1638.8	1637.9	1637.9	1635.3	1636.1	1633.5	1635.3
12.5°	1637.0	1636.1	1636.1	1634.4	1632.6	1630.9	1630.0	1627.4	1627.4	1621.2	1623.9
15°	1630.0	1630.9	1628.2	1624.7	1623.0	1618.6	1616.8	1613.3	1609.8	1605.4	1606.3
17.5°	1623.9	1621.2	1617.7	1614.2	1607.2	1603.7	1600.1	1594.9	1593.1	1587.8	1586.1
20°	1605.4	1603.7	1599.3	1593.1	1588.7	1580.8	1577.3	1572.0	1567.6	1562.4	1559.7
22.5°	1581.7	1579.9	1574.7	1568.5	1561.5	1558.0	1554.5	1544.8	1540.4	1535.2	1534.3
25°	1551.8	1549.2	1543.9	1536.9	1533.4	1523.7	1520.2	1513.2	1511.4	1506.2	1505.3
27.5°	1506.2	1502.7	1496.5	1487.7	1481.6	1475.4	1471.9	1466.6	1464.9	1459.6	1458.8
30°	1437.7	1433.3	1421.0	1417.5	1406.9	1400.8	1400.8	1393.8	1394.6	1391.1	1391.1
32.5°	1329.7	1322.6	1313.0	1305.9	1298.9	1295.4	1295.4	1292.8	1294.5	1294.5	1296.3
35°	1186.5	1176.8	1171.6	1167.2	1167.2	1170.7	1181.2	1183.9	1189.1	1193.5	1197.0
37.5°	1002.9	1002.1	1008.2	1013.5	1026.7	1041.6	1060.0	1075.8	1090.8	1101.3	1111.8
40°	804.5	826.4	844.0	868.6	888.8	917.8	951.1	978.3	1003.8	1022.3	1041.6
42.5°	627.9	656.0	692.9	728.9	764.9	804.5	848.4	886.1	919.5	945.0	965.2
45°	489.2	527.8	572.6	618.3	664.8	714.0	759.7	798.3	833.4	859.8	880.0
47.5°	394.3	436.5	487.4	537.5	590.2	642.0	692.9	726.3	755.3	776.4	794.8
50°	325.8	370.6	424.2	481.3	534.0	585.8	629.7	662.2	685.9	704.3	715.8
52.5°	272.2	319.7	376.8	433.8	486.5	534.0	573.5	598.1	617.4	630.6	641.1
55°	224.8	270.5	324.1	377.6	429.5	474.2	506.7	525.2	540.1	548.0	554.2
57.5°	183.6	225.7	274.9	324.1	368.9	405.8	431.2	449.7	456.7	462.8	461.9
60°	144.0	183.6	228.3	270.5	309.1	339.0	357.4	368.0	373.2	375.9	374.1
62.5°	113.3	149.3	183.6	220.4	248.5	274.0	291.6	291.6	294.2	295.1	297.7
65°	84.3	111.5	141.4	168.6	191.4	208.1	217.8	220.4	224.0	223.1	221.3
67.5°	62.4	82.6	104.5	124.7	140.5	151.0	158.1	164.2	163.4	161.6	160.7
70°	43.0	56.2	75.5	87.8	99.2	109.8	111.5	112.4	113.3	114.2	112.4
72.5°	29.9	39.5	50.1	60.6	67.6	72.0	76.4	77.3	77.3	77.3	76.4
75°	14.9	20.2	29.9	34.3	40.4	42.2	45.7	45.7	48.3	44.8	43.9
77.5°	13.2	15.8	21.1	24.6	27.2	29.9	30.7	33.4	32.5	30.7	31.6
80°	7.9	9.7	13.2	14.9	18.4	19.3	20.2	21.1	20.2	21.1	21.1
82.5°	6.1	7.0	8.8	8.8	11.4	11.4	12.3	12.3	13.2	13.2	13.2
85°	3.5	6.1	5.3	10.5	7.0	7.0	8.8	10.5	8.8	8.8	10.5
87.5°	3.5	3.5	2.6	3.5	3.5	3.5	4.4	5.3	5.3	6.1	5.3
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: P246189

CATALOG NUMBER: LD8B30D010 ER8B30835 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1636.1	1636.1	1636.1	1636.1
2.5°	1638.8	1640.5	1637.9	1637.0
5°	1641.4	1641.4	1639.7	1639.7
7.5°	1641.4	1641.4	1638.8	1637.0
10°	1634.4	1634.4	1631.8	1630.0
12.5°	1621.2	1621.2	1620.3	1617.7
15°	1604.5	1604.5	1601.0	1598.4
17.5°	1581.7	1583.5	1579.1	1579.1
20°	1557.1	1556.2	1552.7	1551.0
22.5°	1531.6	1529.9	1529.0	1523.7
25°	1504.4	1502.7	1500.0	1497.4
27.5°	1457.9	1457.0	1454.4	1450.8
30°	1386.7	1385.8	1382.3	1382.3
32.5°	1294.5	1293.6	1290.1	1291.0
35°	1198.8	1202.3	1200.5	1197.0
37.5°	1118.9	1121.5	1123.3	1121.5
40°	1052.1	1060.0	1060.9	1062.7
42.5°	981.0	991.5	995.0	996.8
45°	895.8	905.5	913.4	911.6
47.5°	808.8	815.9	822.9	817.6
50°	725.4	729.8	732.5	732.5
52.5°	646.4	646.4	645.5	646.4
55°	555.9	555.9	552.4	554.2
57.5°	461.1	462.8	460.2	455.8
60°	373.2	368.9	367.1	364.5
62.5°	290.7	290.7	284.6	292.4
65°	217.8	215.2	212.5	211.6
67.5°	158.1	157.2	154.6	153.7
70°	111.5	108.0	107.1	105.4
72.5°	74.7	74.7	72.9	72.9
75°	45.7	41.3	40.4	41.3
77.5°	31.6	30.7	30.7	29.9
80°	21.1	20.2	22.0	19.3
82.5°	13.2	14.1	13.2	14.1
85°	8.8	10.5	9.7	9.7
87.5°	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)