

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: P245475

Luminaire Tested: **LD8B30D010 ER8B30840 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30840 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3140.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

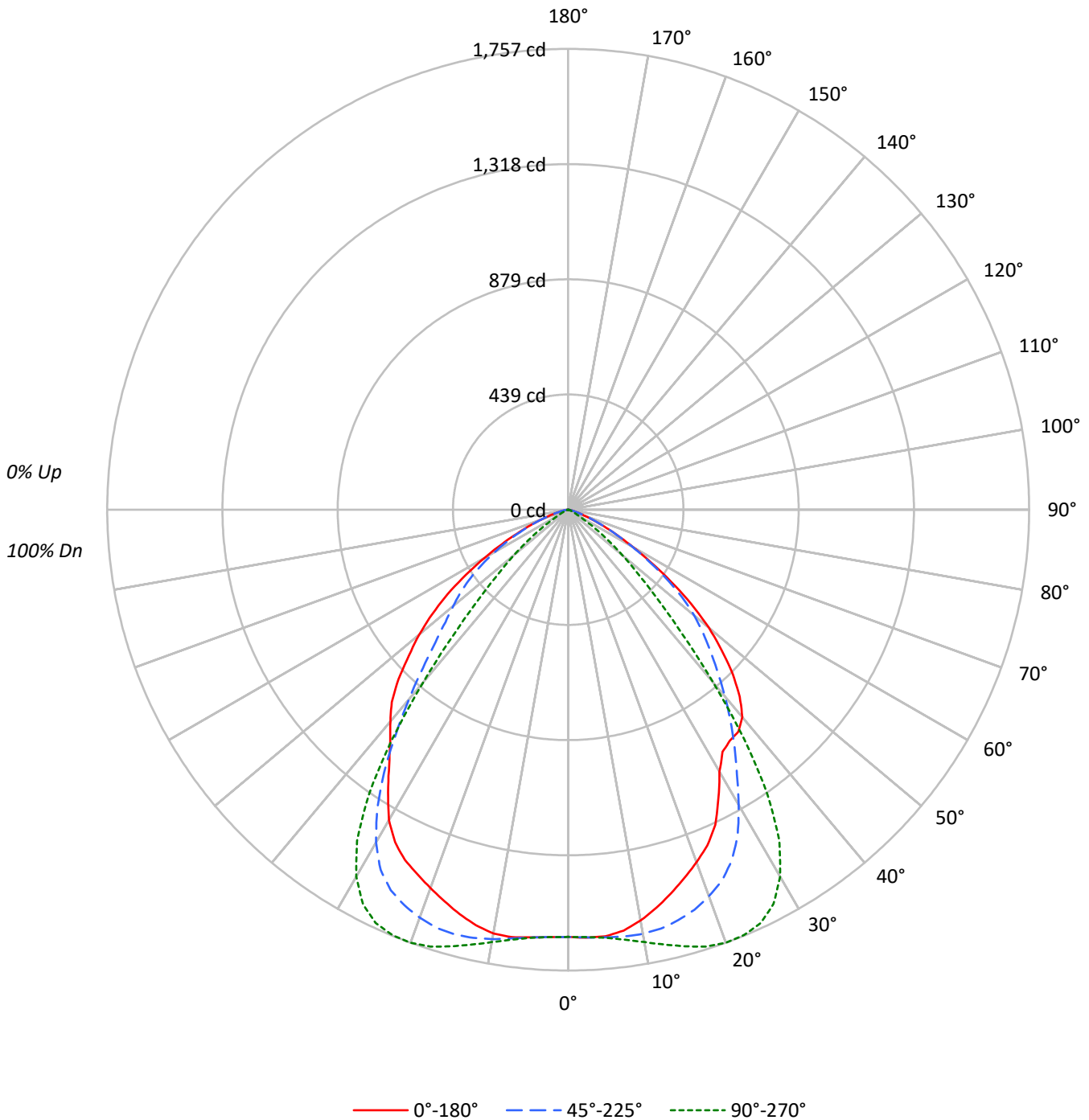
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

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

	0°	90°	180°
0°	50229	50229	50229
5°	50529	50715	50663
10°	49786	52413	51383
15°	48330	55012	50980
20°	46929	57653	50362
25°	45126	59130	50128
30°	41069	57508	48642
35°	40456	49830	44751
40°	41558	34562	42428
45°	38686	20889	39894
50°	33557	12900	35548
55°	25752	6742	30166
60°	17546	2720	22770
65°	10916	1386	15709
70°	5923	857	9584
75°	3086	405	5671
80°	1385	462	3072
85°	920	318	2760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	5.0
10°-20°	464.1	14.8
20°-30°	708.0	22.5
30°-40°	738.8	23.5
40°-50°	554.9	17.7
50°-60°	341.4	10.9
60°-70°	138.9	4.4
70°-80°	32.7	1.0
80°-90°	4.5	0.1
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°	1328.7	42.3
0°-40°	2067.5	65.8
0°-60°	2963.8	94.4
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1629	1629	1629	1629	1629	
5°	1632	1637	1638	1637	1637	154
15°	1514	1620	1723	1676	1597	426
25°	1326	1475	1738	1600	1473	603
35°	1075	1105	1324	1223	1189	679
45°	887	768	479	715	915	677
55°	479	455	125	455	561	431
65°	150	151	19	203	215	156
75°	26	26	3	46	48	31
85°	3	3	1	6	8	4
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°	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9
2.5°	1633.3	1630.7	1633.3	1633.3	1634.1	1632.4	1633.3	1634.1	1632.4	1632.4	1632.4
5°	1632.4	1630.7	1632.4	1631.5	1633.3	1633.3	1635.0	1635.0	1636.7	1636.7	1639.3
7.5°	1618.6	1615.1	1618.6	1621.2	1622.9	1626.3	1630.7	1634.1	1637.6	1641.0	1645.4
10°	1590.0	1590.0	1592.6	1597.8	1603.0	1609.0	1616.8	1625.5	1634.1	1641.9	1649.7
12.5°	1554.6	1552.0	1557.2	1564.1	1571.9	1581.4	1593.5	1606.5	1620.3	1635.8	1648.0
15°	1513.9	1511.3	1517.4	1524.3	1533.8	1547.7	1562.4	1579.6	1599.5	1620.3	1640.2
17.5°	1472.4	1471.6	1477.6	1487.1	1494.9	1509.6	1528.6	1549.4	1571.9	1599.5	1625.5
20°	1430.1	1429.2	1435.3	1443.0	1453.4	1467.2	1486.3	1510.5	1537.3	1568.4	1598.7
22.5°	1386.0	1386.8	1392.0	1400.7	1409.3	1424.0	1443.9	1468.1	1497.5	1531.2	1564.9
25°	1326.3	1322.0	1328.9	1337.6	1352.2	1364.3	1383.4	1409.3	1439.6	1475.0	1514.8
27.5°	1239.8	1239.0	1245.1	1252.8	1265.8	1280.5	1301.2	1328.0	1360.0	1398.9	1437.8
30°	1153.4	1155.1	1157.7	1165.5	1174.1	1188.8	1209.6	1232.1	1262.3	1299.5	1341.0
32.5°	1094.6	1094.6	1098.1	1103.2	1109.3	1117.1	1131.8	1148.2	1171.6	1197.5	1227.7
35°	1074.7	1071.3	1074.7	1075.6	1076.4	1078.2	1080.8	1086.0	1093.7	1105.0	1116.2
37.5°	1066.1	1063.5	1063.5	1060.0	1055.7	1050.5	1043.6	1035.8	1027.2	1015.9	1007.3
40°	1032.4	1030.6	1028.9	1025.4	1015.9	1005.5	994.3	976.1	956.3	928.6	900.9
42.5°	967.5	965.8	964.9	958.0	949.3	937.2	924.3	905.2	880.2	844.7	805.0
45°	887.1	883.6	881.0	875.0	868.9	858.6	846.5	829.2	804.1	767.8	720.2
47.5°	793.7	792.0	791.1	788.5	782.5	776.4	768.6	754.8	732.3	697.7	648.5
50°	699.5	696.0	697.7	696.9	694.3	690.0	684.8	675.3	658.0	626.8	581.9
52.5°	591.4	591.4	590.5	593.1	594.0	593.1	594.0	583.6	568.9	545.6	507.5
55°	479.0	479.0	481.6	485.1	488.5	489.4	488.5	484.2	473.8	454.8	421.1
57.5°	373.5	371.8	377.0	382.2	385.6	389.1	386.5	383.0	377.0	361.4	335.5
60°	284.5	284.5	287.9	291.4	294.8	298.3	297.4	296.6	291.4	281.0	260.3
62.5°	209.2	210.1	210.1	212.7	216.1	219.6	222.2	219.6	217.0	210.1	196.3
65°	149.6	148.7	149.6	152.2	154.8	158.2	160.0	159.1	156.5	151.3	140.9
67.5°	100.3	99.4	102.9	103.7	105.5	109.0	108.1	109.0	108.1	103.7	95.1
70°	65.7	64.0	65.7	64.8	67.4	68.3	70.0	70.9	70.0	67.4	64.8
72.5°	40.6	39.8	40.6	41.5	42.4	43.2	45.0	45.0	44.1	42.4	38.9
75°	25.9	23.3	24.2	22.5	24.2	24.2	25.9	26.8	25.9	25.9	24.2
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	16.4	17.3	15.6	14.7
80°	7.8	7.8	8.7	8.7	8.7	9.5	8.7	8.7	8.7	9.5	6.9
82.5°	6.1	5.2	5.2	5.2	6.1	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.6	3.4	2.6	1.7	2.6	2.6	3.4	2.6	2.6	2.6	3.4
87.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.7	0.0
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°	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9
2.5°	1633.3	1631.5	1631.5	1630.7	1632.4	1630.7	1631.5	1630.7	1630.7	1632.4	1630.7
5°	1639.3	1640.2	1638.4	1637.6	1640.2	1640.2	1640.2	1638.4	1638.4	1639.3	1638.4
7.5°	1648.0	1649.7	1650.5	1651.4	1653.1	1654.0	1654.0	1653.1	1652.3	1654.9	1651.4
10°	1657.5	1660.1	1665.2	1667.8	1672.2	1672.2	1673.9	1673.9	1672.2	1673.9	1673.0
12.5°	1654.0	1669.6	1678.2	1684.3	1690.3	1695.5	1697.2	1698.1	1697.2	1700.7	1697.2
15°	1660.1	1673.0	1686.9	1697.2	1708.5	1714.5	1716.3	1723.2	1724.9	1725.8	1720.6
17.5°	1650.5	1673.9	1688.6	1704.2	1720.6	1731.8	1742.2	1746.5	1747.4	1749.1	1742.2
20°	1628.9	1654.9	1677.3	1699.8	1718.9	1736.1	1744.8	1756.9	1753.4	1760.4	1750.8
22.5°	1599.5	1628.9	1657.5	1686.9	1706.8	1727.5	1745.7	1754.3	1758.6	1758.6	1748.2
25°	1552.8	1587.4	1618.6	1648.8	1679.1	1704.2	1724.9	1737.9	1740.5	1739.6	1727.5
27.5°	1480.2	1517.4	1553.7	1588.3	1625.5	1654.9	1679.1	1694.6	1699.0	1699.0	1686.0
30°	1379.9	1419.7	1455.1	1496.6	1534.7	1567.5	1601.3	1615.1	1622.9	1622.9	1608.2
32.5°	1260.6	1294.3	1327.2	1367.8	1409.3	1446.5	1478.5	1497.5	1507.0	1506.2	1493.2
35°	1130.9	1147.3	1172.4	1202.7	1239.8	1274.4	1305.6	1323.7	1340.1	1339.3	1327.2
37.5°	1001.2	996.9	999.5	1010.7	1034.1	1058.3	1082.5	1099.8	1113.6	1119.7	1117.1
40°	874.1	851.6	830.0	822.3	824.0	832.6	845.6	858.6	874.1	881.9	885.4
42.5°	760.0	722.0	683.9	655.4	638.9	633.8	639.8	644.1	653.6	664.9	676.1
45°	668.3	617.3	567.2	523.1	495.4	479.0	475.5	479.0	484.2	495.4	510.1
47.5°	593.1	533.5	477.3	428.0	387.3	365.7	359.7	358.0	363.1	373.5	393.4
50°	526.5	466.9	404.6	347.6	305.2	281.0	272.4	268.9	274.9	282.7	300.9
52.5°	453.9	395.1	331.1	275.8	231.7	206.6	197.1	191.9	195.4	205.8	223.9
55°	375.2	320.8	262.8	205.8	163.4	140.1	128.8	125.4	128.8	140.1	158.2
57.5°	296.6	250.7	202.3	148.7	110.7	87.3	76.1	72.6	82.1	86.5	105.5
60°	231.7	194.5	153.0	109.0	76.1	57.9	46.7	44.1	48.4	56.2	71.8
62.5°	173.8	150.4	117.6	77.8	56.2	37.2	31.1	28.5	31.1	37.2	49.3
65°	126.2	108.1	82.1	57.1	38.0	27.7	20.8	19.0	21.6	25.9	36.3
67.5°	86.5	72.6	57.1	39.8	25.9	17.3	14.7	14.7	15.6	19.0	26.8
70°	56.2	47.6	36.3	25.9	17.3	13.0	11.2	9.5	11.2	13.8	18.2
72.5°	35.5	30.3	23.3	18.2	13.0	9.5	7.8	6.9	8.7	10.4	13.8
75°	21.6	16.4	12.1	9.5	6.9	6.9	6.9	3.4	4.3	6.9	8.7
77.5°	13.0	11.2	9.5	7.8	6.1	3.4	3.4	3.4	4.3	5.2	7.8
80°	6.9	6.1	4.3	4.3	3.4	2.6	3.4	2.6	1.7	4.3	5.2
82.5°	4.3	3.4	3.4	3.4	4.3	1.7	2.6	1.7	2.6	3.4	2.6
85°	2.6	2.6	2.6	1.7	4.3	1.7	1.7	0.9	0.9	1.7	1.7
87.5°	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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°	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9	1628.9
2.5°	1631.5	1630.7	1631.5	1630.7	1630.7	1630.7	1631.5	1631.5	1630.7	1630.7	1632.4
5°	1638.4	1638.4	1638.4	1637.6	1636.7	1636.7	1638.4	1638.4	1635.8	1638.4	1638.4
7.5°	1653.1	1650.5	1653.1	1649.7	1648.0	1648.8	1649.7	1648.0	1646.2	1647.1	1647.1
10°	1672.2	1669.6	1669.6	1667.0	1664.4	1662.6	1660.9	1656.6	1652.3	1651.4	1648.0
12.5°	1694.6	1690.3	1687.7	1682.5	1678.2	1672.2	1667.0	1660.1	1651.4	1645.4	1639.3
15°	1717.1	1710.2	1704.2	1695.5	1686.0	1675.6	1664.4	1653.1	1639.3	1627.2	1616.8
17.5°	1735.3	1725.8	1714.5	1700.7	1686.9	1671.3	1654.9	1638.4	1618.6	1603.0	1590.9
20°	1741.3	1727.5	1712.8	1694.6	1676.5	1654.9	1634.1	1612.5	1590.0	1573.6	1559.8
22.5°	1733.6	1717.1	1699.0	1679.9	1655.7	1632.4	1608.2	1583.1	1563.2	1540.7	1527.8
25°	1711.9	1692.0	1672.2	1649.7	1626.3	1600.4	1574.5	1548.5	1524.3	1512.2	1495.8
27.5°	1667.8	1646.2	1624.6	1601.3	1574.5	1548.5	1521.7	1496.6	1475.9	1459.5	1450.0
30°	1590.0	1564.9	1539.9	1514.8	1491.5	1464.6	1439.6	1418.8	1398.1	1385.1	1375.6
32.5°	1470.7	1448.2	1423.2	1398.9	1377.3	1354.8	1334.1	1315.9	1301.2	1292.6	1285.7
35°	1309.9	1287.4	1268.4	1251.1	1232.9	1223.4	1210.5	1200.1	1194.0	1190.6	1189.7
37.5°	1107.6	1094.6	1088.5	1085.1	1081.6	1079.0	1080.8	1085.1	1088.5	1094.6	1101.5
40°	891.4	902.6	906.1	918.2	929.5	944.2	960.6	979.6	995.2	1015.0	1028.9
42.5°	694.3	715.0	739.2	765.2	792.8	819.7	852.5	882.8	910.4	935.5	957.1
45°	533.5	565.4	601.8	638.9	676.1	715.0	754.8	792.0	824.8	851.6	874.1
47.5°	415.9	451.3	498.0	543.8	588.8	634.6	678.7	717.6	745.3	771.2	791.1
50°	329.4	370.1	421.1	473.8	523.1	571.5	618.2	654.5	682.2	702.9	717.6
52.5°	255.1	303.5	355.4	410.7	463.4	516.2	559.4	593.1	615.6	633.8	645.0
55°	190.2	237.8	293.1	350.2	403.8	454.8	495.4	524.8	544.7	555.1	561.1
57.5°	137.5	180.7	236.0	293.1	341.5	389.9	422.8	449.6	460.8	466.9	469.5
60°	100.3	140.1	189.3	238.6	284.5	323.4	351.9	370.1	378.7	382.2	381.3
62.5°	73.5	108.1	150.4	191.9	229.1	261.1	283.6	295.7	300.0	301.7	299.2
65°	56.2	83.0	119.3	151.3	179.8	203.2	219.6	227.4	230.0	229.1	227.4
67.5°	41.5	62.3	89.1	113.3	134.0	152.2	160.8	167.7	169.5	166.9	164.3
70°	29.4	45.8	64.8	81.3	96.8	107.2	116.7	117.6	117.6	116.7	115.0
72.5°	20.8	32.0	44.1	55.3	64.8	72.6	76.1	78.7	77.8	76.9	75.2
75°	13.8	19.9	32.0	34.6	43.2	45.8	49.3	49.3	50.1	47.6	47.6
77.5°	8.7	13.8	19.0	22.5	25.9	29.4	31.1	31.1	32.0	31.1	31.1
80°	5.2	8.7	10.4	15.6	15.6	18.2	19.0	19.9	18.2	20.8	18.2
82.5°	3.4	5.2	7.8	7.8	9.5	11.2	11.2	12.1	12.1	11.2	11.2
85°	2.6	3.4	4.3	5.2	5.2	6.1	5.2	5.2	6.1	6.9	6.1
87.5°	0.9	1.7	0.9	1.7	1.7	3.4	2.6	2.6	2.6	3.4	3.4
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: P245475

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1628.9	1628.9	1628.9	1628.9
2.5°	1630.7	1631.5	1630.7	1630.7
5°	1638.4	1637.6	1638.4	1636.7
7.5°	1644.5	1644.5	1643.6	1643.6
10°	1644.5	1641.0	1641.0	1641.0
12.5°	1631.5	1627.2	1624.6	1622.9
15°	1609.0	1601.3	1597.8	1596.9
17.5°	1579.6	1572.7	1568.4	1565.8
20°	1545.9	1539.0	1533.8	1534.7
22.5°	1516.5	1508.8	1505.3	1503.6
25°	1487.1	1477.6	1475.0	1473.3
27.5°	1439.6	1434.4	1431.8	1429.2
30°	1367.0	1364.3	1360.0	1366.1
32.5°	1283.1	1278.8	1275.3	1277.9
35°	1190.6	1188.0	1190.6	1188.8
37.5°	1105.8	1108.4	1111.9	1113.6
40°	1039.3	1048.8	1052.2	1054.0
42.5°	972.7	983.9	990.8	995.2
45°	890.5	901.8	909.6	914.8
47.5°	805.8	815.3	823.1	822.3
50°	728.9	734.1	737.5	741.0
52.5°	651.0	651.0	651.9	651.9
55°	562.9	561.1	560.3	561.1
57.5°	466.0	464.3	463.4	460.8
60°	377.8	372.7	369.2	369.2
62.5°	295.7	289.6	287.1	286.2
65°	222.2	221.3	216.1	215.3
67.5°	160.8	157.4	153.9	154.8
70°	113.3	108.1	108.1	106.3
72.5°	73.5	70.9	70.0	70.0
75°	45.8	45.8	44.1	47.6
77.5°	30.3	30.3	29.4	30.3
80°	18.2	18.2	18.2	17.3
82.5°	11.2	12.1	11.2	11.2
85°	6.1	6.9	5.2	7.8
87.5°	3.4	4.3	3.4	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)