

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: P245451

Luminaire Tested: **LD8B30D010 ER8B30930 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30930 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2604.1 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

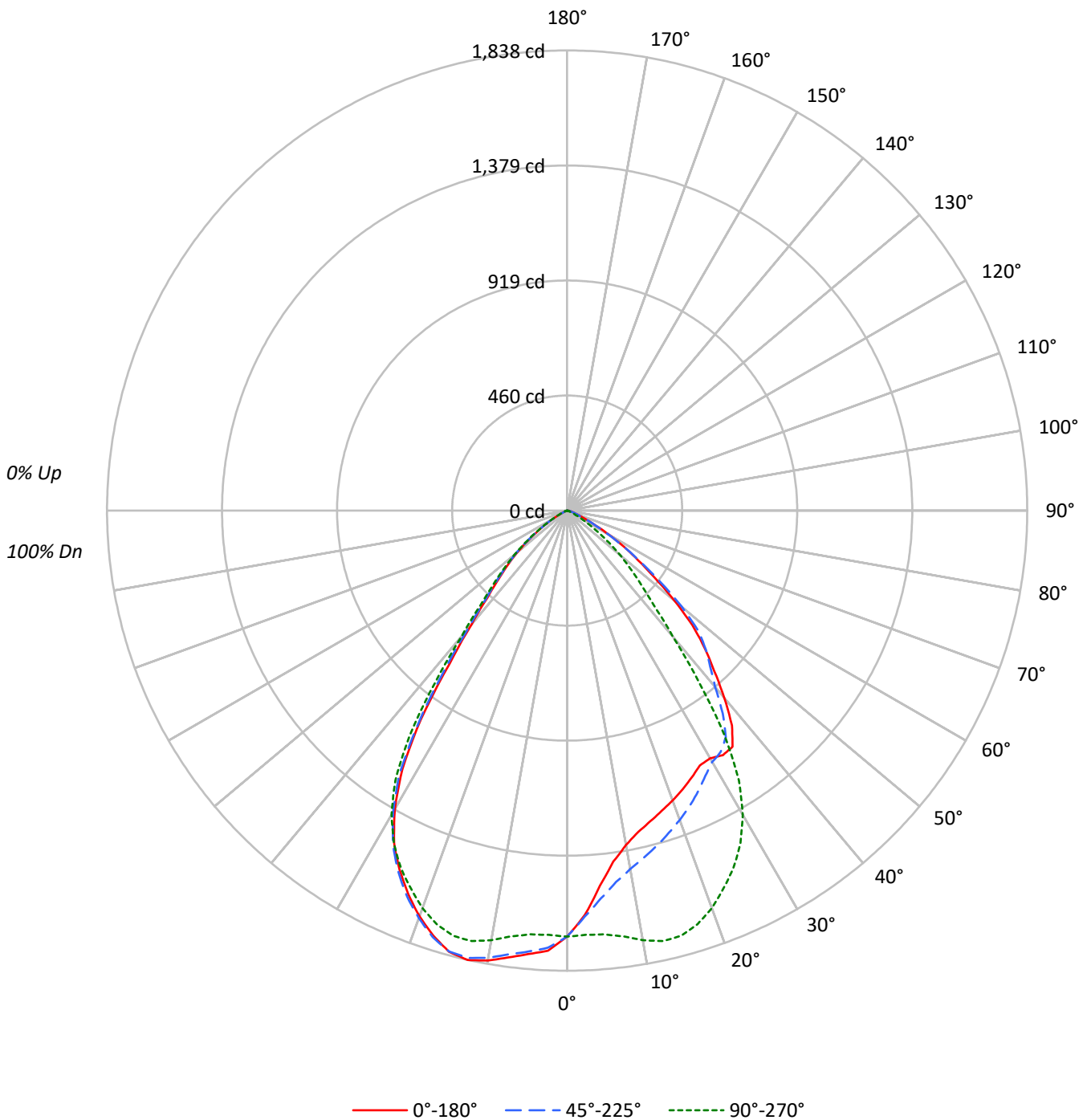
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82	82	82	82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74	74	74	74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60	60	60	60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55	55	55	55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50	50	50	50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46	46	46	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39	39	39	39			

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	6.1
10°-20°	458.0	17.6
20°-30°	664.7	25.5
30°-40°	654.7	25.1
40°-50°	410.4	15.8
50°-60°	198.0	7.6
60°-70°	47.9	1.8
70°-80°	9.7	0.4
80°-90°	2.2	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°	1281.2	49.2
0°-40°	1935.9	74.3
0°-60°	2544.3	97.7
0°-90°	2604.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1701	1701	1701	1701	1701	
5°	1504	1555	1699	1768	1778	139
15°	1285	1386	1758	1823	1824	363
25°	1176	1238	1573	1595	1583	544
35°	1152	1105	1098	1036	1019	697
45°	778	783	415	398	387	595
55°	346	357	151	149	142	318
65°	81	80	22	19	17	92
75°	20	17	5	2	2	22
85°	6	4	1	0	0	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2
2.5°	1617.2	1606.8	1587.7	1610.9	1610.9	1598.0	1623.9	1608.2	1620.7	1640.4	1623.0
5°	1503.6	1495.2	1479.0	1503.6	1506.7	1494.7	1526.0	1514.4	1532.6	1556.8	1554.6
7.5°	1413.8	1403.0	1388.4	1413.8	1418.7	1410.7	1440.6	1435.2	1459.4	1490.7	1496.1
10°	1355.3	1344.1	1331.1	1354.4	1357.9	1352.6	1383.0	1379.8	1403.5	1439.7	1454.0
12.5°	1313.7	1304.3	1289.9	1314.6	1318.6	1311.0	1339.6	1338.2	1362.8	1400.8	1418.7
15°	1284.7	1273.5	1260.5	1281.5	1286.8	1278.4	1305.6	1302.9	1327.9	1365.5	1385.7
17.5°	1257.3	1247.1	1233.7	1253.3	1258.7	1249.8	1276.6	1272.1	1293.5	1329.3	1349.9
20°	1231.9	1220.7	1208.7	1228.7	1231.9	1221.6	1248.5	1242.6	1261.8	1294.9	1315.0
22.5°	1205.5	1193.9	1181.3	1201.0	1204.2	1193.9	1218.4	1211.8	1229.6	1259.6	1277.9
25°	1176.5	1165.7	1153.2	1171.6	1174.2	1163.0	1188.9	1180.4	1196.1	1222.5	1237.7
27.5°	1147.3	1137.1	1123.2	1142.1	1143.4	1132.7	1156.3	1144.7	1157.7	1181.8	1194.8
30°	1142.5	1130.9	1116.5	1131.8	1132.2	1118.3	1140.7	1126.8	1134.0	1151.8	1159.5
32.5°	1158.1	1146.4	1131.8	1144.3	1143.0	1127.7	1149.1	1132.2	1134.5	1143.9	1142.1
35°	1151.8	1138.0	1120.6	1134.0	1134.0	1115.6	1137.1	1117.0	1114.7	1116.1	1105.0
37.5°	1080.8	1070.1	1053.5	1066.5	1065.2	1051.3	1067.9	1051.3	1043.7	1040.5	1020.4
40°	976.2	963.3	950.7	964.6	966.0	951.2	972.6	953.9	951.6	942.6	919.0
42.5°	870.2	865.7	853.8	865.3	871.6	859.1	877.0	868.0	869.3	867.1	844.8
45°	777.7	770.1	761.2	774.6	778.6	772.4	790.3	784.9	790.3	801.4	783.1
47.5°	678.1	670.5	660.6	675.0	682.1	670.5	685.7	683.9	691.9	711.2	709.4
50°	557.8	552.4	550.6	552.4	556.9	551.5	562.3	562.7	568.1	594.5	596.3
52.5°	441.6	440.2	434.1	439.9	439.9	431.4	442.0	437.2	442.5	460.4	472.1
55°	345.5	344.1	340.1	345.5	339.7	336.5	339.7	334.7	330.8	344.6	356.7
57.5°	269.0	264.6	259.7	262.0	261.5	254.8	258.4	252.6	249.4	254.4	265.0
60°	191.8	190.5	186.0	188.2	190.0	185.1	188.7	186.0	180.6	184.6	185.1
62.5°	127.3	128.2	125.6	126.0	124.7	123.8	126.0	127.3	126.0	124.2	124.7
65°	80.9	80.5	80.0	80.5	81.4	79.6	80.9	81.8	80.5	80.5	80.0
67.5°	53.6	52.4	51.0	51.9	52.8	51.5	52.8	52.4	52.8	52.4	51.0
70°	36.2	35.8	35.3	35.8	35.8	34.9	35.8	35.3	35.8	35.3	34.0
72.5°	26.3	26.3	25.9	26.3	26.3	25.4	25.9	25.0	25.4	25.0	24.1
75°	19.6	19.6	19.2	19.6	19.2	18.7	19.2	18.7	17.8	17.8	17.0
77.5°	14.3	14.3	14.3	14.3	14.3	13.9	13.9	13.5	13.0	12.6	12.6
80°	10.8	10.3	10.3	10.3	10.3	9.9	10.3	9.9	9.4	9.0	8.5
82.5°	7.6	8.1	7.6	7.6	7.6	7.2	7.6	7.2	7.2	6.7	5.8
85°	5.8	5.8	5.8	5.8	5.8	5.4	5.4	5.4	4.9	4.9	4.5
87.5°	3.1	3.1	3.1	3.6	3.1	3.1	3.1	2.7	2.7	2.2	2.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2
2.5°	1646.2	1648.4	1643.5	1651.1	1680.6	1657.0	1666.8	1670.0	1692.3	1696.3	1693.6
5°	1583.6	1593.5	1599.8	1616.7	1649.3	1632.4	1649.8	1661.0	1689.6	1699.0	1701.2
7.5°	1534.4	1555.1	1570.2	1598.0	1636.4	1623.4	1649.8	1668.2	1703.0	1715.0	1720.8
10°	1497.8	1529.2	1555.5	1593.5	1636.9	1628.4	1662.8	1688.7	1727.6	1741.9	1749.0
12.5°	1470.1	1508.1	1543.4	1591.7	1638.6	1634.6	1676.1	1705.7	1746.7	1761.1	1769.6
15°	1439.7	1483.5	1524.7	1578.7	1629.3	1628.4	1673.0	1704.4	1746.3	1758.4	1766.5
17.5°	1403.5	1450.5	1495.6	1554.2	1604.2	1605.0	1650.2	1681.1	1722.2	1732.1	1737.4
20°	1366.8	1413.4	1458.5	1518.8	1567.9	1569.3	1613.6	1642.2	1681.5	1689.6	1690.9
22.5°	1327.9	1371.3	1416.5	1476.4	1523.8	1524.7	1568.4	1595.3	1628.8	1632.8	1636.4
25°	1283.8	1326.1	1368.6	1428.0	1473.2	1475.9	1515.7	1539.4	1570.2	1573.3	1574.7
27.5°	1237.7	1272.6	1313.3	1364.1	1409.8	1408.0	1445.5	1472.3	1500.0	1498.2	1497.8
30°	1191.2	1220.2	1245.3	1294.4	1327.9	1329.3	1364.6	1377.6	1406.6	1403.0	1402.6
32.5°	1158.6	1166.2	1172.9	1197.9	1229.6	1218.4	1242.6	1258.7	1278.8	1277.5	1277.9
35°	1098.7	1084.8	1064.7	1068.3	1087.5	1070.1	1083.0	1082.5	1103.2	1098.2	1104.1
37.5°	996.3	957.0	912.3	886.8	890.4	868.4	864.0	874.7	881.9	868.0	872.9
40°	887.3	829.1	759.4	701.3	698.2	670.9	666.0	655.2	669.1	657.5	661.1
42.5°	806.8	729.9	638.3	567.7	552.4	529.7	516.2	514.4	518.5	510.5	508.3
45°	745.1	663.3	558.3	477.3	460.4	435.8	422.4	417.5	417.9	415.2	413.0
47.5°	672.7	590.4	484.0	401.4	382.1	358.9	345.5	342.4	344.1	340.6	337.9
50°	572.6	498.8	401.9	326.3	309.3	292.4	281.6	278.5	278.0	275.3	273.5
52.5°	464.9	403.7	319.6	256.6	241.4	224.9	217.2	213.2	213.7	211.0	208.3
55°	359.8	321.8	247.6	193.9	180.1	167.1	160.0	155.1	153.8	151.1	149.8
57.5°	267.7	242.2	185.5	139.9	131.8	119.4	112.2	106.4	105.5	104.1	103.7
60°	187.8	169.4	130.5	99.7	90.2	82.7	75.6	69.7	67.0	66.6	65.2
62.5°	121.6	110.4	85.9	66.6	59.4	54.0	47.0	42.9	41.1	39.3	39.8
65°	75.6	67.0	53.6	42.9	38.9	34.9	29.5	25.9	24.1	22.3	22.8
67.5°	47.0	42.0	34.0	27.7	25.0	21.9	17.8	15.2	13.9	12.6	11.7
70°	31.7	27.2	23.2	19.6	17.8	15.7	13.0	10.8	9.9	9.0	8.1
72.5°	22.3	20.1	17.0	14.8	13.5	11.7	9.9	8.5	7.6	6.7	5.8
75°	16.1	14.3	12.6	10.8	9.9	9.0	7.6	6.7	5.8	4.9	4.0
77.5°	11.7	10.3	9.0	8.1	7.6	6.3	5.4	4.9	4.5	3.6	2.7
80°	8.1	7.2	5.8	5.4	5.4	4.5	4.0	3.6	3.1	2.2	1.8
82.5°	5.4	4.9	4.5	4.0	3.6	3.1	3.1	2.2	1.8	1.3	0.9
85°	4.0	3.6	3.1	2.7	2.7	2.2	1.8	1.3	1.3	0.9	0.4
87.5°	2.2	2.2	1.8	1.3	1.3	0.9	0.9	0.4	0.4	0.4	0.4
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2
2.5°	1716.4	1717.7	1725.3	1719.5	1734.3	1744.9	1739.7	1751.7	1747.6	1746.7	1760.6
5°	1728.0	1731.2	1741.5	1736.1	1752.1	1763.8	1758.4	1771.9	1767.8	1766.9	1781.2
7.5°	1750.3	1753.5	1762.4	1758.0	1775.0	1785.2	1778.5	1793.3	1787.9	1787.4	1801.3
10°	1778.5	1783.0	1790.6	1786.1	1801.8	1810.8	1804.0	1818.3	1813.4	1811.2	1826.3
12.5°	1799.5	1802.7	1810.3	1806.7	1821.8	1828.6	1822.7	1836.6	1830.4	1828.6	1842.0
15°	1794.6	1797.7	1804.0	1800.9	1815.1	1821.4	1813.8	1829.0	1822.7	1819.2	1831.3
17.5°	1763.3	1765.1	1769.6	1766.5	1781.6	1785.6	1777.2	1792.4	1786.5	1780.3	1791.9
20°	1717.3	1716.4	1719.1	1717.7	1730.3	1732.5	1727.1	1738.3	1731.6	1728.0	1734.7
22.5°	1660.1	1659.2	1661.0	1657.4	1670.0	1671.3	1663.2	1676.6	1670.0	1663.2	1674.3
25°	1596.6	1591.7	1590.8	1592.2	1600.7	1602.0	1593.5	1603.3	1594.8	1589.5	1600.2
27.5°	1518.4	1512.1	1510.8	1512.1	1520.6	1514.4	1507.2	1514.4	1505.8	1500.9	1507.6
30°	1421.9	1412.9	1408.9	1406.2	1415.2	1412.9	1396.3	1404.4	1390.9	1383.9	1388.8
32.5°	1291.7	1286.8	1276.1	1269.9	1278.4	1261.3	1251.0	1251.0	1245.8	1233.7	1236.4
35°	1111.1	1103.6	1093.8	1088.4	1089.7	1067.0	1049.9	1053.5	1035.7	1032.6	1033.9
37.5°	882.8	870.2	866.6	855.5	858.2	838.1	814.9	815.3	805.9	796.0	792.9
40°	663.3	661.1	657.5	648.2	651.6	629.8	620.8	621.3	615.1	607.9	611.5
42.5°	512.6	505.6	503.3	500.2	501.1	497.5	485.8	487.2	481.8	480.0	478.2
45°	416.6	408.9	403.7	406.3	406.3	402.3	397.8	400.5	397.8	394.3	396.0
47.5°	343.3	336.1	333.5	333.0	336.1	333.5	329.0	329.9	329.5	328.1	327.2
50°	274.0	272.2	269.9	268.6	269.9	269.0	265.0	267.2	268.6	264.1	265.5
52.5°	208.7	208.7	208.3	205.1	207.8	205.1	204.7	205.6	204.2	202.5	202.0
55°	152.9	151.6	149.3	148.9	149.8	148.9	148.0	148.4	149.3	144.8	144.8
57.5°	104.6	103.7	102.3	102.3	104.1	101.9	100.6	102.3	100.6	98.8	98.8
60°	67.0	66.6	65.2	65.2	65.2	64.8	63.4	63.9	64.8	62.1	62.6
62.5°	40.2	38.9	38.5	38.0	38.5	38.0	38.0	37.6	37.1	37.1	35.8
65°	21.9	21.0	20.1	20.5	20.5	20.1	20.1	20.1	19.2	18.7	18.3
67.5°	11.2	10.3	10.3	9.9	9.9	9.9	9.9	9.4	9.4	9.4	9.0
70°	7.2	6.7	6.3	6.3	6.3	5.8	5.8	5.8	5.8	5.8	5.4
72.5°	4.9	4.5	4.0	4.0	4.0	3.6	3.6	3.6	3.6	3.1	3.1
75°	3.6	3.1	2.7	2.7	2.7	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.8	1.8	1.8	1.8	1.3	1.3	1.3	1.3	1.3	0.9
80°	1.3	1.3	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
82.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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





TEST NUMBER: P245451

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2	1701.2
2.5°	1755.7	1752.1	1754.4	1771.0	1763.8	1761.5	1742.8	1759.3
5°	1776.8	1774.1	1774.1	1792.8	1784.3	1782.5	1764.2	1778.5
7.5°	1796.4	1793.7	1794.2	1813.4	1806.7	1804.0	1785.6	1800.0
10°	1821.8	1820.1	1820.5	1838.9	1831.7	1829.0	1810.3	1825.0
12.5°	1837.1	1834.4	1834.4	1854.0	1846.1	1842.0	1824.1	1838.4
15°	1825.4	1821.4	1821.4	1841.1	1832.2	1826.3	1810.8	1824.1
17.5°	1785.6	1781.6	1781.6	1798.6	1791.9	1783.4	1767.4	1779.8
20°	1730.3	1725.3	1724.0	1743.6	1734.3	1726.7	1712.3	1724.4
22.5°	1667.7	1665.5	1661.4	1681.1	1672.6	1664.6	1649.3	1658.7
25°	1592.6	1589.0	1585.0	1604.2	1595.7	1587.7	1575.6	1583.2
27.5°	1499.1	1499.6	1497.3	1512.6	1504.0	1499.6	1484.9	1497.3
30°	1386.1	1381.2	1379.4	1397.2	1389.3	1383.4	1365.0	1377.1
32.5°	1238.6	1231.4	1222.0	1242.2	1228.3	1223.3	1207.8	1225.1
35°	1024.0	1021.8	1013.3	1030.3	1022.7	1013.7	1003.9	1018.7
37.5°	791.7	793.3	792.4	796.9	792.4	786.7	776.0	770.6
40°	604.3	599.8	596.3	604.3	594.9	594.9	588.6	595.4
42.5°	473.8	472.1	476.4	478.2	472.9	472.1	471.2	470.7
45°	391.1	391.1	392.0	393.8	392.0	391.1	388.4	386.6
47.5°	322.3	324.1	322.3	328.1	325.0	324.1	318.7	320.9
50°	261.1	258.8	261.1	262.9	263.3	260.6	257.9	259.3
52.5°	202.5	198.9	198.0	200.7	198.9	198.9	197.1	196.6
55°	142.6	143.9	141.7	143.9	143.0	141.7	140.3	142.1
57.5°	96.5	97.0	96.1	97.4	95.2	95.6	95.2	94.7
60°	62.6	60.8	60.8	62.1	59.9	59.9	59.4	59.4
62.5°	35.8	35.3	35.3	34.9	34.4	34.4	34.4	33.5
65°	18.3	17.8	17.5	17.5	17.5	17.5	17.0	17.0
67.5°	9.0	8.5	8.5	9.0	8.5	8.5	8.5	8.5
70°	5.4	5.4	4.9	5.4	4.9	4.9	4.9	4.9
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)