

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: P245433

Luminaire Tested: **LD8B30D010 ER8B30940 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245433  
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 ER8B30940 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2809.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

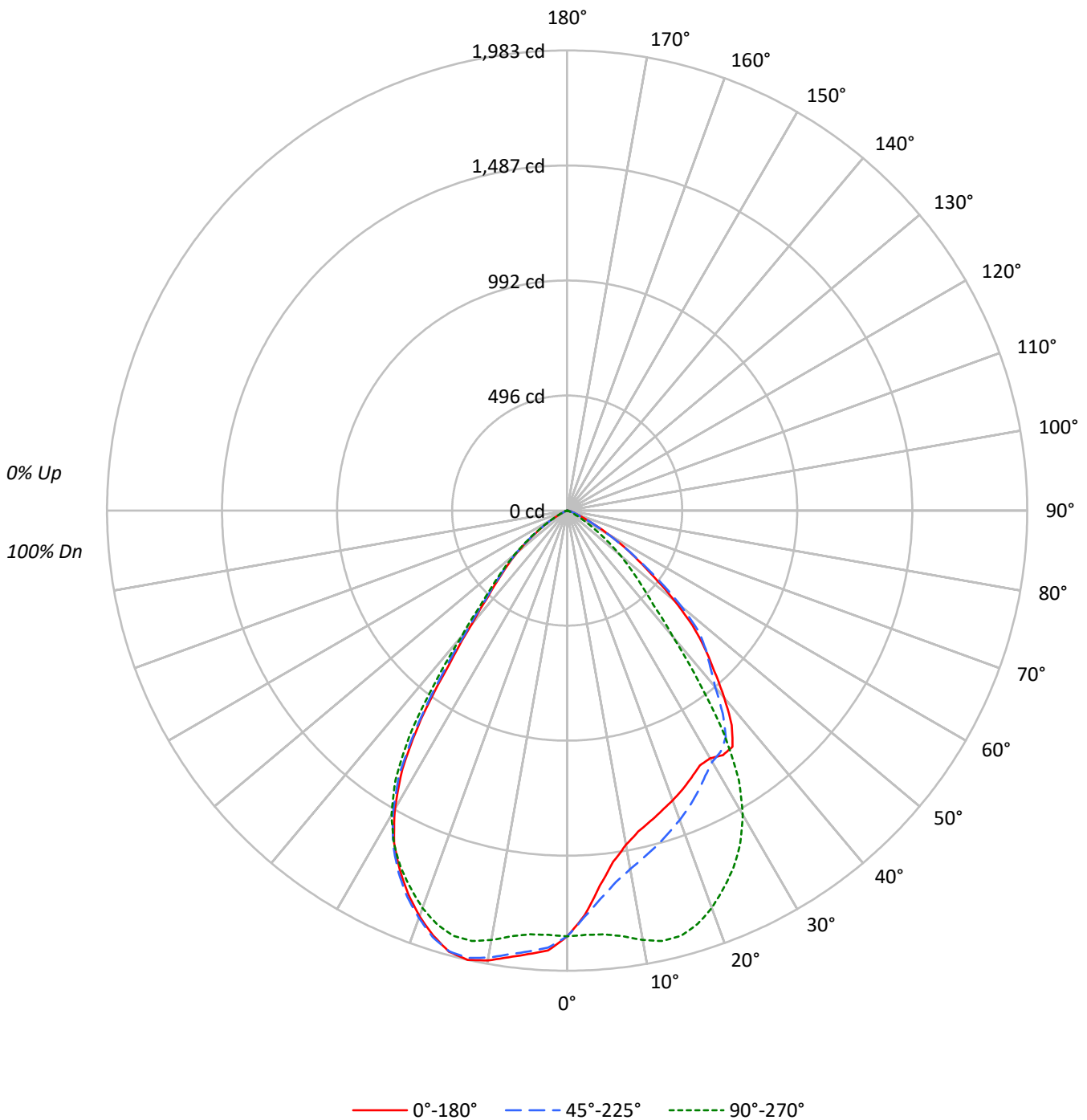
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	56588	56588	56588
5°	50208	56730	59385
10°	45775	58832	61641
15°	44237	60554	62817
20°	43605	59806	61040
25°	43177	57746	58106
30°	43882	53891	52894
35°	46773	44593	41363
40°	42387	28548	25851
45°	36584	19533	18189
50°	28865	14248	13413
55°	20037	8763	8242
60°	12754	4428	3953
65°	6370	1758	1335
70°	3525	866	478
75°	2526	631	226
80°	2060	426	89
85°	2229	354	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	6.1
10°-20°	494.0	17.6
20°-30°	717.0	25.5
30°-40°	706.2	25.1
40°-50°	442.7	15.8
50°-60°	213.6	7.6
60°-70°	51.7	1.8
70°-80°	10.4	0.4
80°-90°	2.4	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°	1382.0	49.2
0°-40°	2088.2	74.3
0°-60°	2744.5	97.7
0°-90°	2809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1835	1835	1835	1835	1835	
5°	1622	1677	1833	1907	1918	150
15°	1386	1495	1897	1966	1968	392
25°	1269	1335	1697	1720	1708	587
35°	1242	1192	1185	1117	1099	752
45°	839	845	448	429	417	641
55°	373	385	163	161	153	343
65°	87	86	24	21	18	100
75°	21	18	5	2	2	24
85°	6	5	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°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1744.4	1733.3	1712.6	1737.7	1737.7	1723.7	1751.7	1734.8	1748.3	1769.5	1750.7
5°	1622.0	1612.8	1595.4	1622.0	1625.3	1612.3	1646.1	1633.5	1653.3	1679.3	1676.9
7.5°	1525.0	1513.5	1497.6	1525.0	1530.3	1521.7	1554.0	1548.2	1574.2	1608.0	1613.8
10°	1461.9	1449.8	1435.8	1460.9	1464.8	1459.0	1491.8	1488.4	1514.0	1553.0	1568.4
12.5°	1417.0	1406.9	1391.5	1418.0	1422.3	1414.1	1445.0	1443.6	1470.1	1511.1	1530.3
15°	1385.7	1373.6	1359.7	1382.3	1388.1	1378.9	1408.4	1405.5	1432.5	1473.0	1494.7
17.5°	1356.3	1345.2	1330.7	1351.9	1357.7	1348.1	1377.0	1372.2	1395.3	1433.9	1456.1
20°	1328.8	1316.8	1303.7	1325.4	1328.8	1317.7	1346.6	1340.4	1361.1	1396.8	1418.5
22.5°	1300.4	1287.8	1274.3	1295.5	1298.9	1287.8	1314.3	1307.1	1326.4	1358.7	1378.5
25°	1269.0	1257.4	1243.9	1263.7	1266.6	1254.6	1282.5	1273.4	1290.2	1318.7	1335.1
27.5°	1237.7	1226.6	1211.6	1231.9	1233.3	1221.8	1247.3	1234.8	1248.8	1274.8	1288.8
30°	1232.4	1219.8	1204.4	1220.8	1221.3	1206.3	1230.4	1215.5	1223.2	1242.5	1250.7
32.5°	1249.3	1236.7	1220.8	1234.3	1232.9	1216.5	1239.6	1221.3	1223.7	1233.8	1231.9
35°	1242.5	1227.6	1208.7	1223.2	1223.2	1203.4	1226.6	1204.9	1202.5	1203.9	1191.9
37.5°	1165.8	1154.3	1136.4	1150.4	1149.0	1134.0	1151.9	1134.0	1125.8	1122.4	1100.7
40°	1053.0	1039.0	1025.5	1040.5	1041.9	1026.0	1049.2	1028.9	1026.5	1016.9	991.3
42.5°	938.7	933.9	920.9	933.4	940.2	926.7	946.0	936.3	937.8	935.4	911.3
45°	838.9	830.7	821.1	835.6	839.9	833.2	852.4	846.7	852.4	864.5	844.7
47.5°	731.4	723.2	712.6	728.0	735.8	723.2	739.6	737.7	746.4	767.1	765.2
50°	601.7	595.9	594.0	595.9	600.8	595.0	606.5	607.0	612.8	641.3	643.2
52.5°	476.4	474.9	468.2	474.4	474.4	465.3	476.8	471.5	477.3	496.6	509.2
55°	372.7	371.3	366.9	372.7	366.4	363.1	366.4	361.1	356.8	371.7	384.8
57.5°	290.3	285.4	280.1	282.5	282.1	274.8	278.7	272.4	269.0	274.3	285.9
60°	206.8	205.4	200.6	203.0	204.9	199.6	203.5	200.6	194.8	199.1	199.6
62.5°	137.4	138.4	135.5	136.0	134.5	133.6	136.0	137.4	136.0	134.0	134.5
65°	87.3	86.8	86.3	86.8	87.8	85.8	87.3	88.2	86.8	86.8	86.3
67.5°	57.9	56.4	55.0	55.9	56.9	55.4	56.9	56.4	56.9	56.4	55.0
70°	39.1	38.6	38.1	38.6	38.6	37.6	38.6	38.1	38.6	38.1	36.6
72.5°	28.4	28.4	28.0	28.4	28.4	27.5	28.0	27.0	27.5	27.0	26.0
75°	21.2	21.2	20.7	21.2	20.7	20.3	20.7	20.3	19.3	19.3	18.3
77.5°	15.4	15.4	15.4	15.4	15.4	14.9	14.9	14.5	14.0	13.5	13.5
80°	11.6	11.1	11.1	11.1	11.1	10.6	11.1	10.6	10.1	9.6	9.2
82.5°	8.2	8.7	8.2	8.2	8.2	7.7	8.2	7.7	7.7	7.2	6.3
85°	6.3	6.3	6.3	6.3	6.3	5.8	5.8	5.8	5.3	5.3	4.8
87.5°	3.4	3.4	3.4	3.9	3.4	3.4	3.4	2.9	2.9	2.4	2.4
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1775.8	1778.2	1772.9	1781.1	1812.9	1787.3	1797.9	1801.3	1825.4	1829.8	1826.9
5°	1708.3	1718.9	1725.6	1743.9	1779.1	1760.8	1779.6	1791.7	1822.5	1832.7	1835.1
7.5°	1655.2	1677.4	1693.8	1723.7	1765.2	1751.2	1779.6	1799.4	1837.0	1850.0	1856.3
10°	1615.7	1649.4	1677.9	1718.9	1765.6	1756.5	1793.6	1821.6	1863.5	1878.9	1886.7
12.5°	1585.8	1626.8	1664.9	1716.9	1767.6	1763.2	1808.1	1839.9	1884.2	1899.7	1908.8
15°	1553.0	1600.3	1644.6	1703.0	1757.4	1756.5	1804.7	1838.4	1883.8	1896.8	1905.5
17.5°	1514.0	1564.6	1613.3	1676.4	1730.4	1731.4	1780.1	1813.4	1857.7	1868.3	1874.1
20°	1474.4	1524.6	1573.3	1638.3	1691.4	1692.8	1740.6	1771.4	1813.8	1822.5	1824.0
22.5°	1432.5	1479.2	1527.9	1592.5	1643.6	1644.6	1691.9	1720.8	1757.0	1761.3	1765.2
25°	1384.7	1430.5	1476.3	1540.5	1589.2	1592.1	1635.0	1660.5	1693.8	1697.2	1698.6
27.5°	1335.1	1372.7	1416.6	1471.5	1520.7	1518.8	1559.3	1588.2	1618.1	1616.2	1615.7
30°	1284.9	1316.3	1343.3	1396.3	1432.5	1433.9	1472.0	1486.0	1517.3	1513.5	1513.0
32.5°	1249.7	1257.9	1265.2	1292.2	1326.4	1314.3	1340.4	1357.7	1379.4	1378.0	1378.5
35°	1185.1	1170.2	1148.5	1152.3	1173.1	1154.3	1168.2	1167.8	1189.9	1184.6	1190.9
37.5°	1074.7	1032.3	984.1	956.6	960.4	936.8	932.0	943.6	951.3	936.3	941.6
40°	957.1	894.4	819.2	756.5	753.1	723.7	718.4	706.8	721.8	709.2	713.1
42.5°	870.3	787.4	688.5	612.3	595.9	571.3	556.9	555.0	559.3	550.6	548.2
45°	803.7	715.5	602.2	514.9	496.6	470.1	455.6	450.3	450.8	447.9	445.5
47.5°	725.6	636.9	522.2	433.0	412.2	387.2	372.7	369.3	371.3	367.4	364.5
50°	617.6	538.1	433.5	352.0	333.6	315.3	303.8	300.4	299.9	297.0	295.1
52.5°	501.4	435.4	344.7	276.8	260.4	242.5	234.3	230.0	230.5	227.6	224.7
55°	388.1	347.1	267.1	209.3	194.3	180.3	172.6	167.3	165.9	163.0	161.5
57.5°	288.8	261.3	200.1	150.9	142.2	128.7	121.0	114.8	113.8	112.3	111.9
60°	202.5	182.7	140.8	107.5	97.4	89.2	81.5	75.2	72.3	71.8	70.4
62.5°	131.1	119.1	92.6	71.8	64.1	58.3	50.6	46.3	44.4	42.4	42.9
65°	81.5	72.3	57.9	46.3	41.9	37.6	31.8	28.0	26.0	24.1	24.6
67.5°	50.6	45.3	36.6	29.9	27.0	23.6	19.3	16.4	14.9	13.5	12.5
70°	34.2	29.4	25.1	21.2	19.3	16.9	14.0	11.6	10.6	9.6	8.7
72.5°	24.1	21.7	18.3	15.9	14.5	12.5	10.6	9.2	8.2	7.2	6.3
75°	17.4	15.4	13.5	11.6	10.6	9.6	8.2	7.2	6.3	5.3	4.3
77.5°	12.5	11.1	9.6	8.7	8.2	6.8	5.8	5.3	4.8	3.9	2.9
80°	8.7	7.7	6.3	5.8	5.8	4.8	4.3	3.9	3.4	2.4	1.9
82.5°	5.8	5.3	4.8	4.3	3.9	3.4	3.4	2.4	1.9	1.4	1.0
85°	4.3	3.9	3.4	2.9	2.9	2.4	1.9	1.4	1.4	1.0	0.5
87.5°	2.4	2.4	1.9	1.4	1.4	1.0	1.0	0.5	0.5	0.5	0.5
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1851.5	1852.9	1861.1	1854.8	1870.7	1882.3	1876.5	1889.5	1885.2	1884.2	1899.2
5°	1864.0	1867.4	1878.5	1872.7	1890.0	1902.6	1896.8	1911.2	1906.9	1905.9	1921.4
7.5°	1888.1	1891.5	1901.1	1896.3	1914.6	1925.7	1918.5	1934.4	1928.6	1928.1	1943.1
10°	1918.5	1923.3	1931.5	1926.7	1943.5	1953.2	1946.0	1961.4	1956.1	1953.7	1970.1
12.5°	1941.1	1944.5	1952.7	1948.9	1965.2	1972.5	1966.2	1981.2	1974.4	1972.5	1986.9
15°	1935.8	1939.2	1946.0	1942.6	1958.0	1964.8	1956.6	1973.0	1966.2	1962.4	1975.4
17.5°	1902.1	1904.0	1908.8	1905.5	1921.8	1926.2	1917.0	1933.4	1927.2	1920.4	1932.9
20°	1852.4	1851.5	1854.3	1852.9	1866.4	1868.8	1863.0	1875.1	1867.8	1864.0	1871.2
22.5°	1790.7	1789.7	1791.7	1787.8	1801.3	1802.8	1794.1	1808.5	1801.3	1794.1	1806.1
25°	1722.2	1716.9	1716.0	1717.4	1726.6	1728.0	1718.9	1729.5	1720.3	1714.5	1726.1
27.5°	1637.9	1631.1	1629.7	1631.1	1640.3	1633.5	1625.8	1633.5	1624.4	1619.1	1626.3
30°	1533.7	1524.1	1519.7	1516.8	1526.5	1524.1	1506.2	1514.9	1500.5	1492.7	1498.0
32.5°	1393.4	1388.1	1376.5	1369.8	1378.9	1360.6	1349.5	1349.5	1343.8	1330.7	1333.6
35°	1198.6	1190.4	1179.8	1174.0	1175.5	1150.9	1132.6	1136.4	1117.1	1113.8	1115.2
37.5°	952.2	938.7	934.9	922.8	925.7	904.0	879.0	879.4	869.3	858.7	855.3
40°	715.5	713.1	709.2	699.1	703.0	679.3	669.7	670.2	663.4	655.7	659.6
42.5°	553.0	545.3	542.9	539.5	540.5	536.6	524.1	525.5	519.8	517.8	515.9
45°	449.4	441.2	435.4	438.3	438.3	433.9	429.1	432.0	429.1	425.3	427.2
47.5°	370.3	362.6	359.7	359.2	362.6	359.7	354.9	355.8	355.3	353.9	352.9
50°	295.6	293.6	291.2	289.8	291.2	290.3	285.9	288.3	289.8	285.0	286.4
52.5°	225.2	225.2	224.7	221.3	224.2	221.3	220.8	221.8	220.3	218.4	217.9
55°	164.9	163.4	161.0	160.6	161.5	160.6	159.6	160.1	161.0	156.2	156.2
57.5°	112.8	111.9	110.4	110.4	112.3	109.9	108.5	110.4	108.5	106.6	106.6
60°	72.3	71.8	70.4	70.4	70.4	69.9	68.5	68.9	69.9	67.0	67.5
62.5°	43.4	41.9	41.5	41.0	41.5	41.0	41.0	40.5	40.0	40.0	38.6
65°	23.6	22.7	21.7	22.2	22.2	21.7	21.7	21.7	20.7	20.3	19.8
67.5°	12.1	11.1	11.1	10.6	10.6	10.6	10.6	10.1	10.1	10.1	9.6
70°	7.7	7.2	6.8	6.8	6.8	6.3	6.3	6.3	6.3	6.3	5.8
72.5°	5.3	4.8	4.3	4.3	4.3	3.9	3.9	3.9	3.9	3.4	3.4
75°	3.9	3.4	2.9	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	1.9	1.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4	1.0
80°	1.4	1.4	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
82.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	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: P245433

CATALOG NUMBER: LD8B30D010 ER8B30940 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1893.9	1890.0	1892.4	1910.3	1902.6	1900.2	1879.9	1897.7
5°	1916.5	1913.7	1913.7	1933.9	1924.7	1922.8	1903.0	1918.5
7.5°	1937.8	1934.9	1935.3	1956.1	1948.9	1946.0	1926.2	1941.6
10°	1965.2	1963.3	1963.8	1983.6	1975.9	1973.0	1952.7	1968.6
12.5°	1981.6	1978.7	1978.7	2000.0	1991.3	1986.9	1967.7	1983.1
15°	1969.1	1964.8	1964.8	1986.0	1976.3	1970.1	1953.2	1967.7
17.5°	1926.2	1921.8	1921.8	1940.2	1932.9	1923.8	1906.4	1919.9
20°	1866.4	1861.1	1859.7	1880.9	1870.7	1862.5	1847.1	1860.1
22.5°	1798.9	1796.5	1792.2	1813.4	1804.2	1795.5	1779.1	1789.3
25°	1717.9	1714.0	1709.7	1730.4	1721.3	1712.6	1699.6	1707.8
27.5°	1617.1	1617.6	1615.2	1631.6	1622.4	1617.6	1601.7	1615.2
30°	1495.1	1489.8	1487.9	1507.2	1498.5	1492.3	1472.5	1485.5
32.5°	1336.0	1328.3	1318.2	1339.9	1324.9	1319.6	1302.8	1321.6
35°	1104.6	1102.2	1093.0	1111.4	1103.2	1093.5	1082.9	1098.8
37.5°	853.9	855.8	854.9	859.7	854.9	848.6	837.0	831.2
40°	651.9	647.0	643.2	651.9	641.7	641.7	635.0	642.2
42.5°	511.1	509.2	514.0	515.9	510.1	509.2	508.2	507.7
45°	421.9	421.9	422.8	424.8	422.8	421.9	419.0	417.1
47.5°	347.6	349.6	347.6	353.9	350.5	349.6	343.8	346.2
50°	281.6	279.2	281.6	283.5	284.0	281.1	278.2	279.6
52.5°	218.4	214.6	213.6	216.5	214.6	214.6	212.6	212.1
55°	153.8	155.3	152.8	155.3	154.3	152.8	151.4	153.3
57.5°	104.1	104.6	103.7	105.1	102.7	103.2	102.7	102.2
60°	67.5	65.6	65.6	67.0	64.6	64.6	64.1	64.1
62.5°	38.6	38.1	38.1	37.6	37.1	37.1	37.1	36.2
65°	19.8	19.3	18.8	18.8	18.8	18.8	18.3	18.3
67.5°	9.6	9.2	9.2	9.6	9.2	9.2	9.2	9.2
70°	5.8	5.8	5.3	5.8	5.3	5.3	5.3	5.3
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)