

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: P245427

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245427  
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: LSR8B30D010 EC8B30935 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2689.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

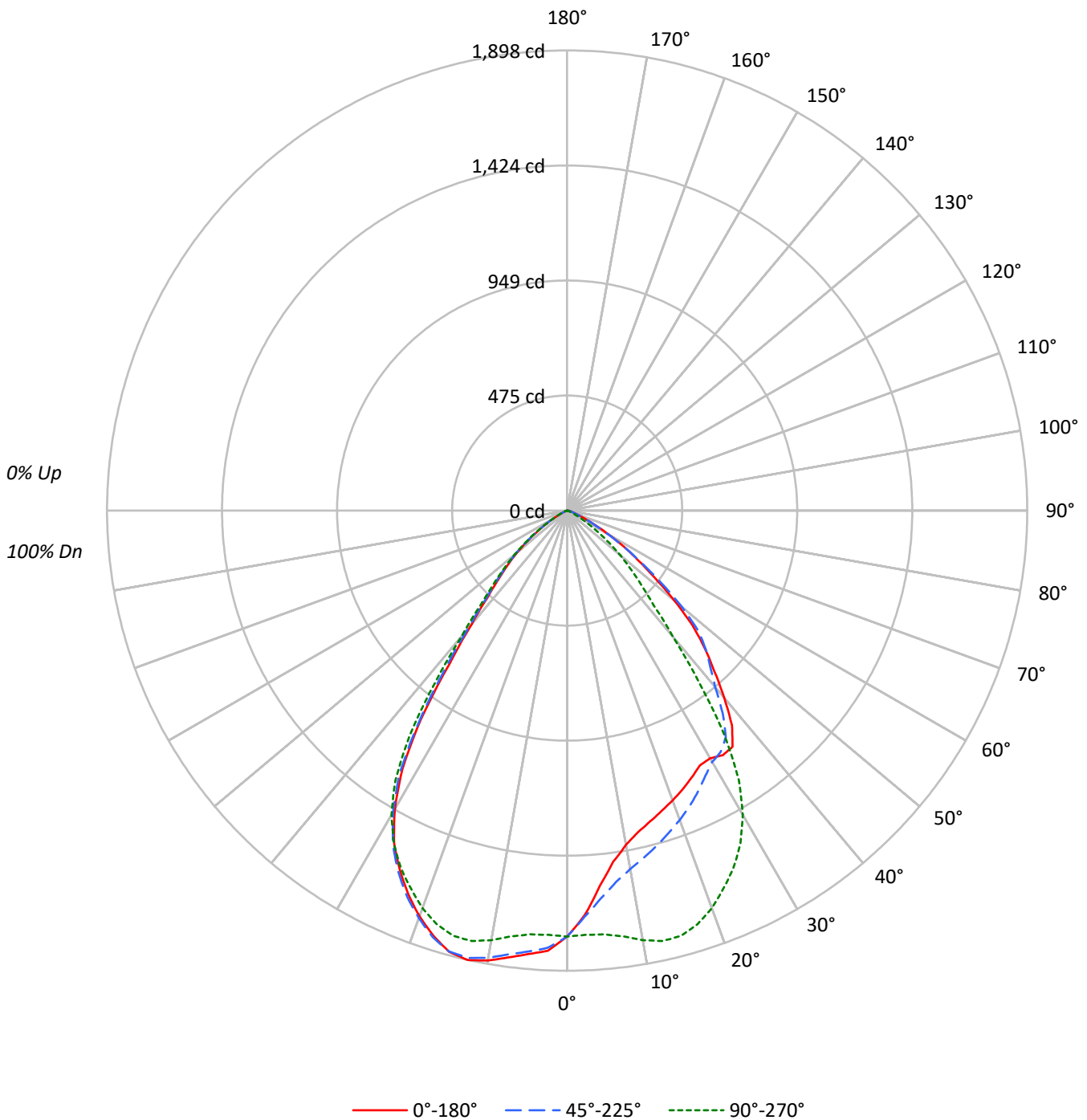
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	54170	54170	54170
5°	48062	54306	56847
10°	43818	56321	59007
15°	42347	57965	60132
20°	41741	57253	58434
25°	41332	55279	55623
30°	42005	51587	50633
35°	44774	42689	39598
40°	40576	27328	24748
45°	35022	18700	17409
50°	27632	13639	12842
55°	19182	8387	7892
60°	12211	4243	3787
65°	6093	1685	1277
70°	3372	829	460
75°	2419	608	214
80°	1971	408	89
85°	2123	318	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	6.1
10°-20°	472.9	17.6
20°-30°	686.4	25.5
30°-40°	676.0	25.1
40°-50°	423.8	15.8
50°-60°	204.5	7.6
60°-70°	49.5	1.8
70°-80°	10.0	0.4
80°-90°	2.3	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°	1323.0	49.2
0°-40°	1999.0	74.3
0°-60°	2627.2	97.7
0°-90°	2689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1757	1757	1757	1757	1757	
5°	1553	1605	1754	1825	1836	144
15°	1326	1431	1816	1882	1884	375
25°	1215	1278	1625	1647	1635	562
35°	1189	1141	1134	1069	1052	720
45°	803	809	429	411	399	614
55°	357	368	156	154	147	328
65°	84	83	23	20	18	95
75°	20	18	5	2	2	23
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°	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7
2.5°	1669.9	1659.3	1639.4	1663.4	1663.4	1650.1	1676.8	1660.7	1673.6	1693.9	1675.9
5°	1552.7	1543.9	1527.3	1552.7	1555.9	1543.4	1575.7	1563.7	1582.7	1607.6	1605.3
7.5°	1459.9	1448.8	1433.6	1459.9	1465.0	1456.7	1487.6	1482.0	1507.0	1539.3	1544.8
10°	1399.4	1387.9	1374.5	1398.5	1402.2	1396.7	1428.0	1424.8	1449.3	1486.7	1501.4
12.5°	1356.5	1346.8	1332.0	1357.4	1361.6	1353.7	1383.3	1381.9	1407.3	1446.5	1465.0
15°	1326.5	1315.0	1301.6	1323.3	1328.8	1320.0	1348.2	1345.4	1371.3	1410.0	1430.8
17.5°	1298.3	1287.7	1273.9	1294.2	1299.7	1290.5	1318.2	1313.6	1335.7	1372.7	1393.9
20°	1272.0	1260.5	1248.0	1268.8	1272.0	1261.4	1289.1	1283.1	1303.0	1337.1	1357.9
22.5°	1244.8	1232.8	1219.9	1240.2	1243.4	1232.8	1258.2	1251.3	1269.7	1300.7	1319.6
25°	1214.8	1203.7	1190.8	1209.7	1212.5	1201.0	1227.7	1219.0	1235.1	1262.3	1278.0
27.5°	1184.8	1174.2	1159.9	1179.3	1180.7	1169.6	1194.0	1182.0	1195.4	1220.3	1233.7
30°	1179.7	1167.7	1153.0	1168.7	1169.1	1154.8	1177.9	1163.6	1171.0	1189.4	1197.3
32.5°	1195.9	1183.9	1168.7	1181.6	1180.2	1164.5	1186.7	1169.1	1171.4	1181.1	1179.3
35°	1189.4	1175.1	1157.1	1171.0	1171.0	1152.0	1174.2	1153.4	1151.1	1152.5	1141.0
37.5°	1116.0	1105.0	1087.9	1101.3	1099.9	1085.6	1102.6	1085.6	1077.7	1074.5	1053.7
40°	1008.0	994.6	981.7	996.0	997.4	982.2	1004.3	985.0	982.6	973.4	949.0
42.5°	898.6	894.0	881.6	893.6	900.0	887.1	905.6	896.3	897.7	895.4	872.3
45°	803.1	795.3	786.0	799.9	804.0	797.6	816.0	810.5	816.0	827.6	808.6
47.5°	700.2	692.3	682.2	696.9	704.3	692.3	708.0	706.2	714.5	734.3	732.5
50°	576.0	570.5	568.6	570.5	575.1	569.6	580.6	581.1	586.6	613.9	615.7
52.5°	456.0	454.6	448.2	454.2	454.2	445.4	456.5	451.4	456.9	475.4	487.4
55°	356.8	355.4	351.2	356.8	350.8	347.5	350.8	345.7	341.5	355.9	368.3
57.5°	277.9	273.2	268.2	270.5	270.0	263.1	266.8	260.8	257.5	262.6	273.7
60°	198.0	196.6	192.0	194.3	196.2	191.1	194.8	192.0	186.5	190.6	191.1
62.5°	131.5	132.5	129.7	130.2	128.8	127.9	130.2	131.5	130.2	128.3	128.8
65°	83.5	83.1	82.6	83.1	84.0	82.2	83.5	84.5	83.1	83.1	82.6
67.5°	55.4	54.0	52.6	53.5	54.5	53.1	54.5	54.0	54.5	54.0	52.6
70°	37.4	36.9	36.5	36.9	36.9	36.0	36.9	36.5	36.9	36.5	35.1
72.5°	27.2	27.2	26.8	27.2	27.2	26.3	26.8	25.8	26.3	25.8	24.9
75°	20.3	20.3	19.8	20.3	19.8	19.4	19.8	19.4	18.5	18.5	17.5
77.5°	14.8	14.8	14.8	14.8	14.8	14.3	14.3	13.8	13.4	12.9	12.9
80°	11.1	10.6	10.6	10.6	10.6	10.2	10.6	10.2	9.7	9.2	8.8
82.5°	7.8	8.3	7.8	7.8	7.8	7.4	7.8	7.4	7.4	6.9	6.0
85°	6.0	6.0	6.0	6.0	6.0	5.5	5.5	5.5	5.1	5.1	4.6
87.5°	3.2	3.2	3.2	3.7	3.2	3.2	3.2	2.8	2.8	2.3	2.3
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: P245427

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7
2.5°	1699.9	1702.2	1697.1	1705.0	1735.4	1711.0	1721.1	1724.4	1747.4	1751.6	1748.8
5°	1635.3	1645.4	1651.9	1669.4	1703.1	1685.6	1703.6	1715.1	1744.7	1754.4	1756.7
7.5°	1584.5	1605.7	1621.4	1650.1	1689.7	1676.4	1703.6	1722.5	1758.5	1771.0	1777.0
10°	1546.7	1579.0	1606.2	1645.4	1690.2	1681.4	1717.0	1743.7	1783.9	1798.7	1806.1
12.5°	1518.0	1557.3	1593.7	1643.6	1692.1	1687.9	1730.8	1761.3	1803.7	1818.5	1827.3
15°	1486.7	1531.9	1574.4	1630.2	1682.4	1681.4	1727.6	1759.9	1803.3	1815.7	1824.1
17.5°	1449.3	1497.7	1544.4	1604.8	1656.5	1657.4	1704.1	1735.9	1778.4	1788.5	1794.1
20°	1411.4	1459.4	1506.0	1568.4	1619.1	1620.5	1666.2	1695.7	1736.4	1744.7	1746.1
22.5°	1371.3	1416.0	1462.7	1524.5	1573.4	1574.4	1619.6	1647.3	1681.9	1686.1	1689.7
25°	1325.6	1369.4	1413.3	1474.7	1521.3	1524.0	1565.1	1589.6	1621.4	1624.7	1626.0
27.5°	1278.0	1314.0	1356.0	1408.7	1455.7	1453.9	1492.7	1520.4	1549.0	1547.1	1546.7
30°	1230.0	1260.0	1285.9	1336.7	1371.3	1372.7	1409.1	1422.5	1452.5	1448.8	1448.4
32.5°	1196.3	1204.2	1211.1	1237.0	1269.7	1258.2	1283.1	1299.7	1320.5	1319.1	1319.6
35°	1134.5	1120.2	1099.4	1103.1	1123.0	1105.0	1118.3	1117.9	1139.1	1134.0	1140.0
37.5°	1028.8	988.2	942.0	915.7	919.4	896.8	892.2	903.3	910.6	896.3	901.4
40°	916.2	856.2	784.2	724.2	720.9	692.8	687.7	676.6	690.9	678.9	682.6
42.5°	833.1	753.7	659.1	586.2	570.5	546.9	533.1	531.2	535.4	527.1	524.8
45°	769.4	684.9	576.5	492.9	475.4	450.0	436.2	431.1	431.6	428.8	426.5
47.5°	694.6	609.7	499.9	414.5	394.6	370.6	356.8	353.5	355.4	351.7	348.9
50°	591.2	515.1	414.9	336.9	319.4	301.9	290.8	287.5	287.1	284.3	282.5
52.5°	480.0	416.8	330.0	264.9	249.2	232.2	224.3	220.2	220.6	217.9	215.1
55°	371.5	332.3	255.7	200.3	186.0	172.6	165.2	160.2	158.8	156.0	154.6
57.5°	276.5	250.2	191.5	144.5	136.2	123.2	115.8	109.8	108.9	107.5	107.1
60°	193.9	174.9	134.8	102.9	93.2	85.4	78.0	72.0	69.2	68.8	67.4
62.5°	125.5	114.0	88.6	68.8	61.4	55.8	48.5	44.3	42.5	40.6	41.1
65°	78.0	69.2	55.4	44.3	40.2	36.0	30.5	26.8	24.9	23.1	23.5
67.5°	48.5	43.4	35.1	28.6	25.8	22.6	18.5	15.7	14.3	12.9	12.0
70°	32.8	28.2	24.0	20.3	18.5	16.2	13.4	11.1	10.2	9.2	8.3
72.5°	23.1	20.8	17.5	15.2	13.8	12.0	10.2	8.8	7.8	6.9	6.0
75°	16.6	14.8	12.9	11.1	10.2	9.2	7.8	6.9	6.0	5.1	4.2
77.5°	12.0	10.6	9.2	8.3	7.8	6.5	5.5	5.1	4.6	3.7	2.8
80°	8.3	7.4	6.0	5.5	5.5	4.6	4.2	3.7	3.2	2.3	1.8
82.5°	5.5	5.1	4.6	4.2	3.7	3.2	3.2	2.3	1.8	1.4	0.9
85°	4.2	3.7	3.2	2.8	2.8	2.3	1.8	1.4	1.4	0.9	0.5
87.5°	2.3	2.3	1.8	1.4	1.4	0.9	0.9	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



TEST NUMBER: P245427

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7
2.5°	1772.4	1773.7	1781.6	1775.6	1790.8	1801.9	1796.4	1808.8	1804.7	1803.7	1818.1
5°	1784.4	1787.6	1798.2	1792.7	1809.3	1821.3	1815.7	1829.6	1825.4	1824.5	1839.3
7.5°	1807.4	1810.7	1819.9	1815.3	1832.8	1843.4	1836.5	1851.7	1846.2	1845.7	1860.1
10°	1836.5	1841.1	1849.0	1844.4	1860.5	1869.7	1862.8	1877.6	1872.5	1870.2	1885.9
12.5°	1858.2	1861.4	1869.3	1865.6	1881.3	1888.2	1882.2	1896.5	1890.1	1888.2	1902.1
15°	1853.1	1856.4	1862.8	1859.6	1874.4	1880.8	1873.0	1888.7	1882.2	1878.5	1891.0
17.5°	1820.8	1822.7	1827.3	1824.1	1839.7	1843.9	1835.1	1850.8	1844.8	1838.4	1850.4
20°	1773.3	1772.4	1775.1	1773.7	1786.7	1789.0	1783.4	1795.0	1788.1	1784.4	1791.3
22.5°	1714.2	1713.3	1715.1	1711.4	1724.4	1725.7	1717.4	1731.3	1724.4	1717.4	1729.0
25°	1648.7	1643.6	1642.7	1644.1	1652.8	1654.2	1645.4	1655.6	1646.8	1641.3	1652.4
27.5°	1567.9	1561.4	1560.0	1561.4	1570.2	1563.7	1556.4	1563.7	1555.0	1549.9	1556.8
30°	1468.2	1459.0	1454.8	1452.0	1461.3	1459.0	1441.9	1450.2	1436.4	1429.0	1434.0
32.5°	1333.9	1328.8	1317.7	1311.3	1320.0	1302.5	1291.9	1291.9	1286.3	1273.9	1276.7
35°	1147.4	1139.6	1129.4	1123.9	1125.3	1101.7	1084.2	1087.9	1069.4	1066.2	1067.6
37.5°	911.6	898.6	895.0	883.4	886.2	865.4	841.4	841.9	832.2	822.0	818.8
40°	684.9	682.6	678.9	669.3	672.9	650.3	641.1	641.6	635.1	627.7	631.4
42.5°	529.4	522.0	519.7	516.5	517.4	513.7	501.7	503.1	497.6	495.7	493.9
45°	430.2	422.3	416.8	419.6	419.6	415.4	410.8	413.6	410.8	407.1	408.9
47.5°	354.5	347.1	344.3	343.9	347.1	344.3	339.7	340.6	340.2	338.8	337.9
50°	282.9	281.1	278.8	277.4	278.8	277.9	273.7	276.0	277.4	272.8	274.2
52.5°	215.5	215.5	215.1	211.9	214.6	211.9	211.4	212.3	210.9	209.1	208.6
55°	157.9	156.5	154.2	153.7	154.6	153.7	152.8	153.2	154.2	149.5	149.5
57.5°	108.0	107.1	105.7	105.7	107.5	105.2	103.8	105.7	103.8	102.0	102.0
60°	69.2	68.8	67.4	67.4	67.4	66.9	65.5	66.0	66.9	64.2	64.6
62.5°	41.5	40.2	39.7	39.2	39.7	39.2	39.2	38.8	38.3	38.3	36.9
65°	22.6	21.7	20.8	21.2	21.2	20.8	20.8	20.8	19.8	19.4	18.9
67.5°	11.5	10.6	10.6	10.2	10.2	10.2	10.2	9.7	9.7	9.7	9.2
70°	7.4	6.9	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.0	5.5
72.5°	5.1	4.6	4.2	4.2	4.2	3.7	3.7	3.7	3.7	3.2	3.2
75°	3.7	3.2	2.8	2.8	2.8	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	0.9
80°	1.4	1.4	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
82.5°	0.9	0.9	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: P245427

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7	1756.7
2.5°	1813.0	1809.3	1811.6	1828.7	1821.3	1819.0	1799.6	1816.7
5°	1834.7	1831.9	1831.9	1851.3	1842.5	1840.7	1821.7	1836.5
7.5°	1855.0	1852.2	1852.7	1872.5	1865.6	1862.8	1843.9	1858.7
10°	1881.3	1879.4	1879.9	1898.8	1891.4	1888.7	1869.3	1884.5
12.5°	1897.0	1894.2	1894.2	1914.5	1906.2	1902.1	1883.6	1898.4
15°	1885.0	1880.8	1880.8	1901.1	1891.9	1885.9	1869.7	1883.6
17.5°	1843.9	1839.7	1839.7	1857.3	1850.4	1841.6	1825.0	1837.9
20°	1786.7	1781.6	1780.2	1800.5	1790.8	1783.0	1768.2	1780.7
22.5°	1722.1	1719.7	1715.6	1735.9	1727.1	1718.8	1703.1	1712.8
25°	1644.5	1640.8	1636.7	1656.5	1647.7	1639.4	1627.0	1634.8
27.5°	1548.0	1548.5	1546.2	1561.9	1553.1	1548.5	1533.3	1546.2
30°	1431.3	1426.2	1424.4	1442.8	1434.5	1428.5	1409.6	1422.0
32.5°	1279.0	1271.6	1261.9	1282.7	1268.3	1263.3	1247.1	1265.1
35°	1057.4	1055.1	1046.3	1063.9	1056.0	1046.8	1036.6	1051.9
37.5°	817.4	819.3	818.3	822.9	818.3	812.3	801.3	795.7
40°	624.0	619.4	615.7	624.0	614.3	614.3	607.9	614.8
42.5°	489.2	487.4	492.0	493.9	488.3	487.4	486.5	486.0
45°	403.9	403.9	404.8	406.6	404.8	403.9	401.1	399.2
47.5°	332.8	334.6	332.8	338.8	335.5	334.6	329.1	331.4
50°	269.5	267.2	269.5	271.4	271.9	269.1	266.3	267.7
52.5°	209.1	205.4	204.5	207.2	205.4	205.4	203.5	203.1
55°	147.2	148.6	146.3	148.6	147.7	146.3	144.9	146.8
57.5°	99.7	100.2	99.2	100.6	98.3	98.8	98.3	97.8
60°	64.6	62.8	62.8	64.2	61.8	61.8	61.4	61.4
62.5°	36.9	36.5	36.5	36.0	35.5	35.5	35.5	34.6
65°	18.9	18.5	18.0	18.0	18.0	18.0	17.5	17.5
67.5°	9.2	8.8	8.8	9.2	8.8	8.8	8.8	8.8
70°	5.5	5.5	5.1	5.5	5.1	5.1	5.1	5.1
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)