

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: P245391

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245391  
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 EC8B30830 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3032.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

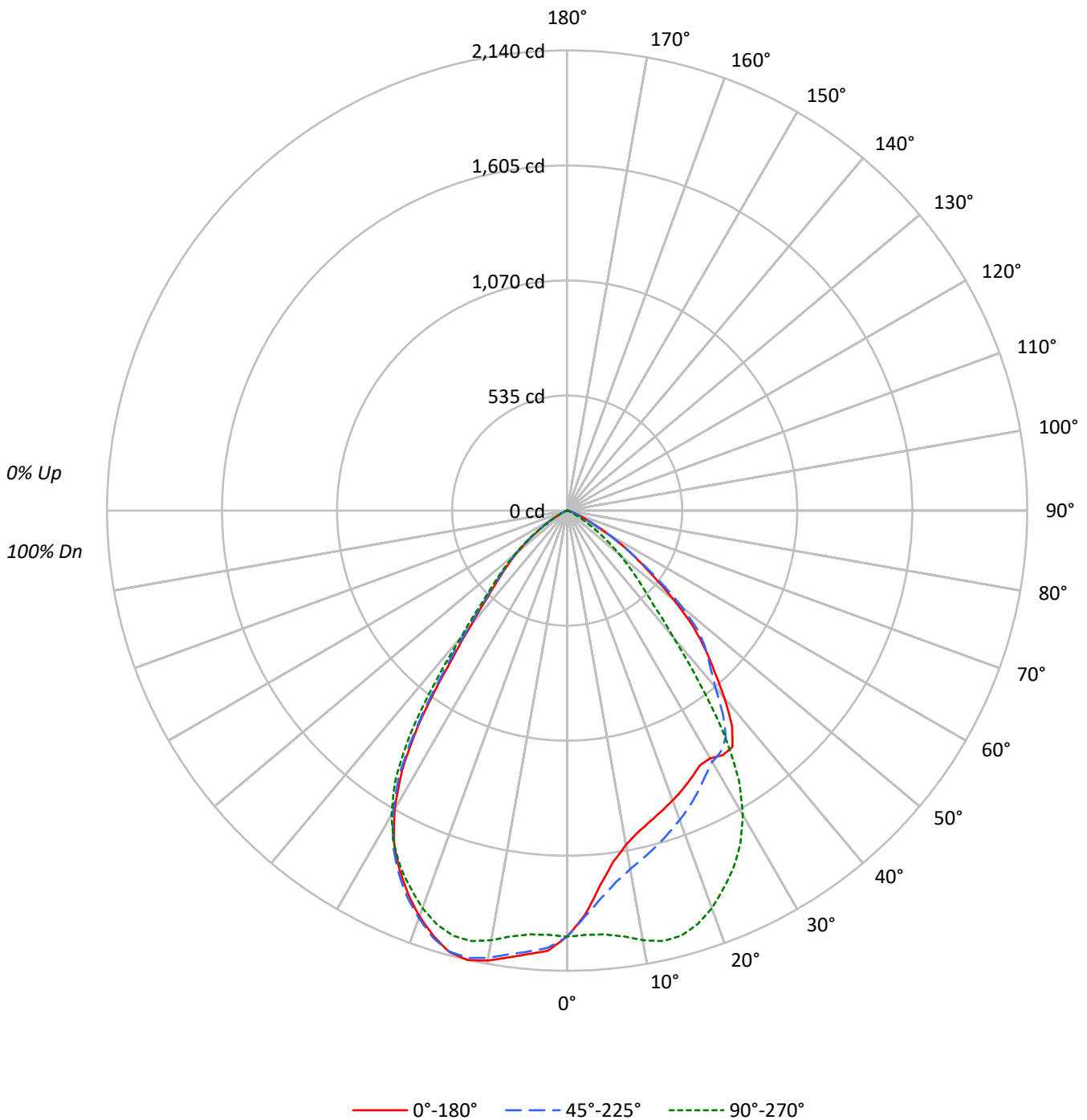
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	61077	61077	61077
5°	54191	61230	64100
10°	49407	63504	66535
15°	47749	65361	67804
20°	47067	64554	65887
25°	46606	62329	62720
30°	47364	58167	57092
35°	50485	48136	44650
40°	45753	30814	27904
45°	39488	21085	19633
50°	31158	15380	14478
55°	21628	9457	8898
60°	13771	4780	4268
65°	6873	1897	1445
70°	3805	938	514
75°	2728	679	250
80°	2220	462	89
85°	2406	354	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.6	6.1
10°-20°	533.2	17.6
20°-30°	773.9	25.5
30°-40°	762.2	25.1
40°-50°	477.8	15.8
50°-60°	230.6	7.6
60°-70°	55.8	1.8
70°-80°	11.3	0.4
80°-90°	2.6	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°	1491.7	49.2
0°-40°	2254.0	74.3
0°-60°	2962.3	97.7
0°-90°	3032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1981	1981	1981	1981	1981	
5°	1751	1810	1978	2058	2071	162
15°	1496	1613	2047	2122	2124	423
25°	1370	1441	1832	1857	1843	634
35°	1341	1286	1279	1206	1186	811
45°	906	912	484	463	450	692
55°	402	415	176	174	166	370
65°	94	93	26	22	20	108
75°	23	20	6	3	2	26
85°	7	5	1	0	0	7
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°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	1882.9	1870.9	1848.6	1875.6	1875.6	1860.5	1890.7	1872.5	1887.1	1910.0	1889.7
5°	1750.7	1740.8	1722.1	1750.7	1754.4	1740.3	1776.7	1763.2	1784.5	1812.6	1810.0
7.5°	1646.1	1633.6	1616.4	1646.1	1651.8	1642.5	1677.3	1671.1	1699.2	1735.6	1741.9
10°	1577.9	1564.9	1549.8	1576.9	1581.1	1574.8	1610.2	1606.6	1634.1	1676.3	1692.9
12.5°	1529.5	1518.6	1502.0	1530.6	1535.3	1526.4	1559.7	1558.2	1586.8	1631.0	1651.8
15°	1495.7	1482.7	1467.6	1492.1	1498.3	1488.4	1520.2	1517.0	1546.2	1589.9	1613.3
17.5°	1464.0	1452.0	1436.4	1459.3	1465.5	1455.1	1486.3	1481.1	1506.1	1547.7	1571.7
20°	1434.3	1421.3	1407.2	1430.7	1434.3	1422.3	1453.6	1446.8	1469.2	1507.7	1531.1
22.5°	1403.6	1390.1	1375.5	1398.4	1402.0	1390.1	1418.7	1410.9	1431.7	1466.6	1487.9
25°	1369.8	1357.3	1342.7	1364.0	1367.2	1354.2	1384.3	1374.4	1392.7	1423.4	1441.1
27.5°	1335.9	1324.0	1307.8	1329.7	1331.3	1318.8	1346.3	1332.8	1347.9	1376.0	1391.1
30°	1330.2	1316.7	1300.0	1317.7	1318.2	1302.1	1328.1	1312.0	1320.3	1341.1	1350.0
32.5°	1348.4	1334.9	1317.7	1332.3	1330.7	1313.0	1338.0	1318.2	1320.8	1331.8	1329.7
35°	1341.1	1325.0	1304.7	1320.3	1320.3	1299.0	1324.0	1300.5	1297.9	1299.5	1286.5
37.5°	1258.4	1245.9	1226.6	1241.7	1240.2	1224.0	1243.3	1224.0	1215.2	1211.6	1188.1
40°	1136.6	1121.5	1106.9	1123.1	1124.6	1107.5	1132.4	1110.6	1108.0	1097.6	1070.0
42.5°	1013.3	1008.1	994.0	1007.5	1014.8	1000.3	1021.1	1010.7	1012.2	1009.6	983.6
45°	905.5	896.7	886.3	901.9	906.6	899.3	920.1	913.9	920.1	933.1	911.8
47.5°	789.5	780.6	769.2	785.8	794.2	780.6	798.3	796.3	805.6	828.0	825.9
50°	649.5	643.2	641.2	643.2	648.5	642.2	654.7	655.2	661.5	692.2	694.2
52.5°	514.2	512.6	505.3	512.1	512.1	502.2	514.7	509.0	515.2	536.0	549.6
55°	402.3	400.7	396.0	402.3	395.5	391.9	395.5	389.8	385.1	401.2	415.3
57.5°	313.3	308.1	302.4	305.0	304.4	296.6	300.8	294.0	290.4	296.1	308.6
60°	223.3	221.7	216.5	219.1	221.2	215.5	219.6	216.5	210.3	214.9	215.5
62.5°	148.3	149.4	146.2	146.8	145.2	144.2	146.8	148.3	146.8	144.7	145.2
65°	94.2	93.7	93.2	93.7	94.7	92.6	94.2	95.2	93.7	93.7	93.2
67.5°	62.5	60.9	59.3	60.4	61.4	59.8	61.4	60.9	61.4	60.9	59.3
70°	42.2	41.6	41.1	41.6	41.6	40.6	41.6	41.1	41.6	41.1	39.6
72.5°	30.7	30.7	30.2	30.7	30.7	29.7	30.2	29.1	29.7	29.1	28.1
75°	22.9	22.9	22.4	22.9	22.4	21.9	22.4	21.9	20.8	20.8	19.8
77.5°	16.7	16.7	16.7	16.7	16.7	16.1	16.1	15.6	15.1	14.6	14.6
80°	12.5	12.0	12.0	12.0	12.0	11.4	12.0	11.4	10.9	10.4	9.9
82.5°	8.8	9.4	8.8	8.8	8.8	8.3	8.8	8.3	8.3	7.8	6.8
85°	6.8	6.8	6.8	6.8	6.8	6.2	6.2	6.2	5.7	5.7	5.2
87.5°	3.6	3.6	3.6	4.2	3.6	3.6	3.6	3.1	3.1	2.6	2.6
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°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	1916.7	1919.3	1913.6	1922.5	1956.8	1929.2	1940.7	1944.3	1970.3	1975.0	1971.9
5°	1843.9	1855.3	1862.6	1882.4	1920.4	1900.6	1920.9	1933.9	1967.2	1978.1	1980.7
7.5°	1786.6	1810.6	1828.3	1860.5	1905.3	1890.2	1920.9	1942.2	1982.8	1996.9	2003.6
10°	1743.9	1780.4	1811.1	1855.3	1905.8	1895.9	1936.0	1966.2	2011.4	2028.1	2036.4
12.5°	1711.7	1755.9	1797.0	1853.2	1907.9	1903.2	1951.6	1985.9	2033.8	2050.5	2060.4
15°	1676.3	1727.3	1775.2	1838.1	1897.0	1895.9	1948.0	1984.4	2033.3	2047.4	2056.7
17.5°	1634.1	1688.8	1741.3	1809.5	1867.8	1868.9	1921.4	1957.3	2005.2	2016.7	2022.9
20°	1591.5	1645.6	1698.2	1768.4	1825.7	1827.2	1878.7	1912.0	1957.8	1967.2	1968.8
22.5°	1546.2	1596.7	1649.2	1719.0	1774.1	1775.2	1826.2	1857.4	1896.4	1901.1	1905.3
25°	1494.7	1544.1	1593.5	1662.8	1715.3	1718.4	1764.8	1792.3	1828.3	1831.9	1833.5
27.5°	1441.1	1481.7	1529.0	1588.3	1641.4	1639.3	1683.1	1714.3	1746.6	1744.5	1743.9
30°	1386.9	1420.8	1449.9	1507.2	1546.2	1547.7	1588.9	1604.0	1637.8	1633.6	1633.1
32.5°	1348.9	1357.8	1365.6	1394.7	1431.7	1418.7	1446.8	1465.5	1488.9	1487.4	1487.9
35°	1279.2	1263.1	1239.7	1243.8	1266.2	1245.9	1261.0	1260.5	1284.4	1278.7	1285.5
37.5°	1160.0	1114.2	1062.2	1032.5	1036.7	1011.2	1006.0	1018.5	1026.8	1010.7	1016.4
40°	1033.0	965.4	884.2	816.5	812.9	781.2	775.4	762.9	779.1	765.5	769.7
42.5°	939.4	849.9	743.2	660.9	643.2	616.7	601.1	599.0	603.7	594.3	591.7
45°	867.6	772.3	650.0	555.8	536.0	507.4	491.8	486.1	486.6	483.5	480.9
47.5°	783.2	687.5	563.6	467.3	445.0	417.9	402.3	398.6	400.7	396.6	393.4
50°	666.7	580.8	467.9	379.9	360.1	340.4	327.9	324.2	323.7	320.6	318.5
52.5°	541.2	469.9	372.1	298.7	281.0	261.8	252.9	248.2	248.8	245.6	242.5
55°	418.9	374.7	288.3	225.9	209.7	194.6	186.3	180.6	179.0	175.9	174.3
57.5°	311.7	282.1	216.0	162.9	153.5	139.0	130.6	123.9	122.8	121.3	120.7
60°	218.6	197.2	152.0	116.1	105.1	96.3	88.0	81.2	78.1	77.5	76.0
62.5°	141.6	128.5	99.9	77.5	69.2	63.0	54.6	50.0	47.9	45.8	46.3
65°	88.0	78.1	62.5	50.0	45.3	40.6	34.3	30.2	28.1	26.0	26.5
67.5°	54.6	48.9	39.6	32.3	29.1	25.5	20.8	17.7	16.1	14.6	13.5
70°	37.0	31.7	27.1	22.9	20.8	18.2	15.1	12.5	11.4	10.4	9.4
72.5°	26.0	23.4	19.8	17.2	15.6	13.5	11.4	9.9	8.8	7.8	6.8
75°	18.7	16.7	14.6	12.5	11.4	10.4	8.8	7.8	6.8	5.7	4.7
77.5°	13.5	12.0	10.4	9.4	8.8	7.3	6.2	5.7	5.2	4.2	3.1
80°	9.4	8.3	6.8	6.2	6.2	5.2	4.7	4.2	3.6	2.6	2.1
82.5°	6.2	5.7	5.2	4.7	4.2	3.6	3.6	2.6	2.1	1.6	1.0
85°	4.7	4.2	3.6	3.1	3.1	2.6	2.1	1.6	1.6	1.0	0.5
87.5°	2.6	2.6	2.1	1.6	1.6	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°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	1998.4	2000.0	2008.8	2002.1	2019.3	2031.7	2025.5	2039.6	2034.9	2033.8	2050.0
5°	2012.0	2015.6	2027.6	2021.3	2040.1	2053.6	2047.4	2063.0	2058.3	2057.2	2073.9
7.5°	2038.0	2041.6	2052.0	2046.8	2066.6	2078.6	2070.8	2088.0	2081.7	2081.2	2097.3
10°	2070.8	2076.0	2084.8	2079.6	2097.8	2108.2	2100.4	2117.1	2111.4	2108.8	2126.5
12.5°	2095.2	2098.9	2107.7	2103.6	2121.3	2129.1	2122.3	2138.4	2131.1	2129.1	2144.7
15°	2089.5	2093.2	2100.4	2096.8	2113.5	2120.7	2111.9	2129.6	2122.3	2118.1	2132.2
17.5°	2053.1	2055.2	2060.4	2056.7	2074.4	2079.1	2069.2	2086.9	2080.1	2072.9	2086.4
20°	1999.5	1998.4	2001.6	2000.0	2014.6	2017.2	2010.9	2023.9	2016.1	2012.0	2019.8
22.5°	1932.9	1931.8	1933.9	1929.7	1944.3	1945.9	1936.5	1952.1	1944.3	1936.5	1949.5
25°	1859.0	1853.2	1852.2	1853.8	1863.6	1865.2	1855.3	1866.8	1856.9	1850.6	1863.1
27.5°	1767.9	1760.6	1759.0	1760.6	1770.5	1763.2	1754.9	1763.2	1753.3	1747.6	1755.4
30°	1655.5	1645.1	1640.4	1637.3	1647.7	1645.1	1625.8	1635.2	1619.6	1611.2	1617.0
32.5°	1504.0	1498.3	1485.8	1478.5	1488.4	1468.6	1456.7	1456.7	1450.4	1436.4	1439.5
35°	1293.8	1284.9	1273.5	1267.2	1268.8	1242.3	1222.5	1226.6	1205.8	1202.2	1203.7
37.5°	1027.8	1013.3	1009.1	996.1	999.2	975.8	948.7	949.3	938.3	926.9	923.2
40°	772.3	769.7	765.5	754.6	758.8	733.3	722.9	723.4	716.1	707.8	711.9
42.5°	596.9	588.6	586.0	582.4	583.4	579.2	565.7	567.3	561.0	558.9	556.9
45°	485.0	476.2	469.9	473.1	473.1	468.4	463.2	466.3	463.2	459.0	461.1
47.5°	399.7	391.4	388.2	387.7	391.4	388.2	383.0	384.1	383.6	382.0	381.0
50°	319.0	316.9	314.3	312.8	314.3	313.3	308.6	311.2	312.8	307.6	309.1
52.5°	243.0	243.0	242.5	238.9	242.0	238.9	238.4	239.4	237.8	235.8	235.2
55°	178.0	176.4	173.8	173.3	174.3	173.3	172.3	172.8	173.8	168.6	168.6
57.5°	121.8	120.7	119.2	119.2	121.3	118.7	117.1	119.2	117.1	115.0	115.0
60°	78.1	77.5	76.0	76.0	76.0	75.5	73.9	74.4	75.5	72.3	72.9
62.5°	46.8	45.3	44.8	44.2	44.8	44.2	44.2	43.7	43.2	43.2	41.6
65°	25.5	24.5	23.4	23.9	23.9	23.4	23.4	23.4	22.4	21.9	21.3
67.5°	13.0	12.0	12.0	11.4	11.4	11.4	11.4	10.9	10.9	10.9	10.4
70°	8.3	7.8	7.3	7.3	7.3	6.8	6.8	6.8	6.8	6.8	6.2
72.5°	5.7	5.2	4.7	4.7	4.7	4.2	4.2	4.2	4.2	3.6	3.6
75°	4.2	3.6	3.1	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.0
80°	1.6	1.6	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: P245391

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	2044.2	2040.1	2042.7	2061.9	2053.6	2051.0	2029.1	2048.4
5°	2068.7	2065.6	2065.6	2087.4	2077.5	2075.5	2054.1	2070.8
7.5°	2091.6	2088.5	2089.0	2111.4	2103.6	2100.4	2079.1	2095.8
10°	2121.3	2119.2	2119.7	2141.0	2132.7	2129.6	2107.7	2124.9
12.5°	2139.0	2135.8	2135.8	2158.7	2149.4	2144.7	2123.9	2140.5
15°	2125.4	2120.7	2120.7	2143.6	2133.2	2126.5	2108.2	2123.9
17.5°	2079.1	2074.4	2074.4	2094.2	2086.4	2076.5	2057.8	2072.3
20°	2014.6	2008.8	2007.3	2030.2	2019.3	2010.4	1993.8	2007.8
22.5°	1941.7	1939.1	1934.4	1957.3	1947.4	1938.1	1920.4	1931.3
25°	1854.3	1850.1	1845.4	1867.8	1857.9	1848.6	1834.5	1843.4
27.5°	1745.5	1746.0	1743.4	1761.1	1751.2	1746.0	1728.9	1743.4
30°	1613.8	1608.1	1606.0	1626.9	1617.5	1610.7	1589.4	1603.4
32.5°	1442.1	1433.8	1422.8	1446.3	1430.1	1424.4	1406.2	1426.5
35°	1192.3	1189.7	1179.8	1199.6	1190.7	1180.3	1168.9	1186.1
37.5°	921.7	923.8	922.7	927.9	922.7	916.0	903.5	897.2
40°	703.6	698.4	694.2	703.6	692.7	692.7	685.4	693.2
42.5°	551.7	549.6	554.8	556.9	550.6	549.6	548.5	548.0
45°	455.4	455.4	456.4	458.5	456.4	455.4	452.3	450.2
47.5°	375.2	377.3	375.2	382.0	378.4	377.3	371.1	373.7
50°	303.9	301.3	303.9	306.0	306.5	303.4	300.3	301.8
52.5°	235.8	231.6	230.5	233.7	231.6	231.6	229.5	229.0
55°	166.0	167.6	165.0	167.6	166.5	165.0	163.4	165.5
57.5°	112.4	112.9	111.9	113.5	110.9	111.4	110.9	110.3
60°	72.9	70.8	70.8	72.3	69.7	69.7	69.2	69.2
62.5°	41.6	41.1	41.1	40.6	40.1	40.1	40.1	39.0
65°	21.3	20.8	20.3	20.3	20.3	20.3	19.8	19.8
67.5°	10.4	9.9	9.9	10.4	9.9	9.9	9.9	9.9
70°	6.2	6.2	5.7	6.2	5.7	5.7	5.7	5.7
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.6	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)