

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: P245409

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245409  
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 EC8B30850 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3194.0 lumens  
Efficiency: N/A  
Efficacy: 117.9 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

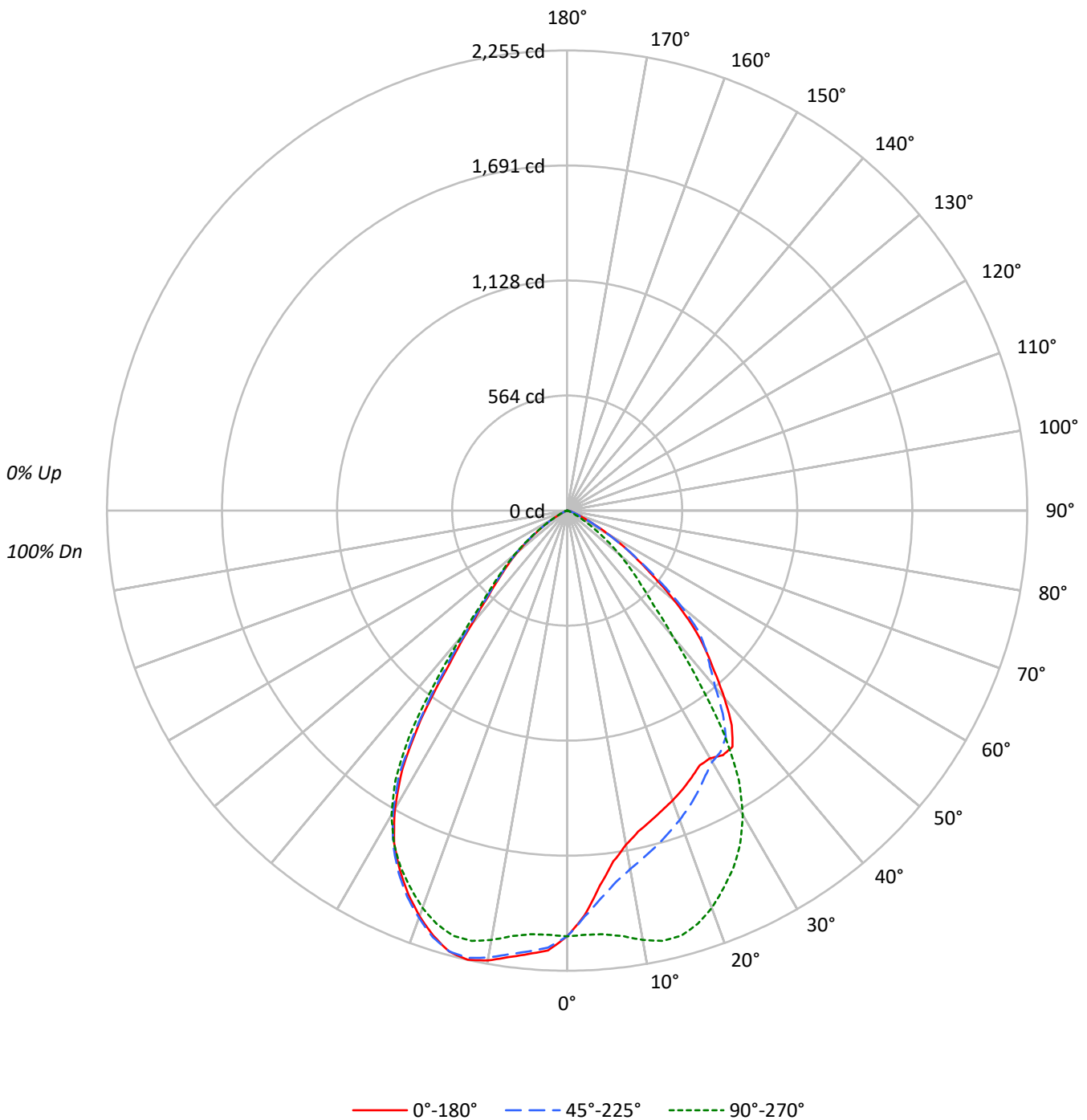
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	64343	64343	64343
5°	57089	64502	67523
10°	52047	66898	70089
15°	50300	68851	71424
20°	49581	68003	69408
25°	49093	65660	66068
30°	49896	61276	60143
35°	53184	50707	47033
40°	48196	32465	29393
45°	41599	22210	20679
50°	32823	16200	15255
55°	22784	9962	9371
60°	14505	5039	4496
65°	7238	1999	1518
70°	4003	992	541
75°	2871	715	262
80°	2344	479	89
85°	2512	389	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.5	6.1
10°-20°	561.7	17.6
20°-30°	815.3	25.5
30°-40°	803.0	25.1
40°-50°	503.3	15.8
50°-60°	242.9	7.6
60°-70°	58.8	1.8
70°-80°	11.9	0.4
80°-90°	2.7	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°	1571.4	49.2
0°-40°	2374.4	74.3
0°-60°	3120.6	97.7
0°-90°	3194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2087	2087	2087	2087	2087	
5°	1844	1907	2084	2168	2181	171
15°	1576	1700	2157	2236	2237	445
25°	1443	1518	1930	1956	1942	668
35°	1413	1355	1347	1270	1249	855
45°	954	960	509	488	474	729
55°	424	438	185	183	174	390
65°	99	98	27	24	21	113
75°	24	21	6	3	2	27
85°	7	6	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°	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6
2.5°	1983.5	1970.9	1947.3	1975.8	1975.8	1959.9	1991.7	1972.5	1987.9	2012.0	1990.6
5°	1844.3	1833.8	1814.1	1844.3	1848.1	1833.3	1871.7	1857.4	1879.9	1909.5	1906.8
7.5°	1734.1	1720.9	1702.8	1734.1	1740.1	1730.2	1767.0	1760.4	1790.0	1828.4	1834.9
10°	1662.2	1648.5	1632.6	1661.1	1665.5	1659.0	1696.2	1692.4	1721.5	1765.9	1783.4
12.5°	1611.3	1599.7	1582.2	1612.4	1617.3	1608.0	1643.1	1641.4	1671.6	1718.2	1740.1
15°	1575.6	1561.9	1546.0	1571.8	1578.4	1567.9	1601.4	1598.1	1628.8	1674.9	1699.5
17.5°	1542.2	1529.6	1513.1	1537.2	1543.8	1532.9	1565.8	1560.3	1586.6	1630.4	1655.7
20°	1510.9	1497.2	1482.4	1507.1	1510.9	1498.3	1531.2	1524.1	1547.7	1588.2	1612.9
22.5°	1478.6	1464.3	1449.0	1473.1	1476.9	1464.3	1494.5	1486.3	1508.2	1544.9	1567.4
25°	1442.9	1429.8	1414.4	1436.9	1440.2	1426.5	1458.3	1447.9	1467.1	1499.4	1518.1
27.5°	1407.3	1394.7	1377.7	1400.7	1402.4	1389.2	1418.3	1404.0	1419.9	1449.5	1465.4
30°	1401.3	1387.0	1369.5	1388.1	1388.7	1371.7	1399.1	1382.1	1390.9	1412.8	1422.1
32.5°	1420.5	1406.2	1388.1	1403.5	1401.8	1383.2	1409.5	1388.7	1391.4	1402.9	1400.7
35°	1412.8	1395.8	1374.4	1390.9	1390.9	1368.4	1394.7	1370.0	1367.3	1368.9	1355.2
37.5°	1325.6	1312.5	1292.2	1308.1	1306.4	1289.4	1309.7	1289.4	1280.1	1276.3	1251.6
40°	1197.3	1181.4	1166.1	1183.1	1184.7	1166.6	1193.0	1169.9	1167.2	1156.2	1127.2
42.5°	1067.4	1061.9	1047.1	1061.4	1069.1	1053.7	1075.6	1064.7	1066.3	1063.6	1036.2
45°	953.9	944.6	933.6	950.1	955.0	947.3	969.3	962.7	969.3	983.0	960.5
47.5°	831.7	822.3	810.3	827.8	836.6	822.3	841.0	838.8	848.7	872.2	870.0
50°	684.2	677.6	675.4	677.6	683.1	676.5	689.7	690.2	696.8	729.2	731.3
52.5°	541.7	540.0	532.3	539.5	539.5	529.0	542.2	536.2	542.8	564.7	578.9
55°	423.8	422.1	417.2	423.8	416.7	412.8	416.7	410.6	405.7	422.7	437.5
57.5°	330.0	324.6	318.5	321.3	320.7	312.5	316.9	309.8	305.9	311.9	325.1
60°	235.2	233.5	228.1	230.8	233.0	227.0	231.4	228.1	221.5	226.4	227.0
62.5°	156.2	157.3	154.1	154.6	153.0	151.9	154.6	156.2	154.6	152.4	153.0
65°	99.2	98.7	98.1	98.7	99.8	97.6	99.2	100.3	98.7	98.7	98.1
67.5°	65.8	64.1	62.5	63.6	64.7	63.0	64.7	64.1	64.7	64.1	62.5
70°	44.4	43.9	43.3	43.9	43.9	42.8	43.9	43.3	43.9	43.3	41.7
72.5°	32.3	32.3	31.8	32.3	32.3	31.2	31.8	30.7	31.2	30.7	29.6
75°	24.1	24.1	23.6	24.1	23.6	23.0	23.6	23.0	21.9	21.9	20.8
77.5°	17.5	17.5	17.5	17.5	17.5	17.0	17.0	16.4	15.9	15.4	15.4
80°	13.2	12.6	12.6	12.6	12.6	12.1	12.6	12.1	11.5	11.0	10.4
82.5°	9.3	9.9	9.3	9.3	9.3	8.8	9.3	8.8	8.8	8.2	7.1
85°	7.1	7.1	7.1	7.1	7.1	6.6	6.6	6.6	6.0	6.0	5.5
87.5°	3.8	3.8	3.8	4.4	3.8	3.8	3.8	3.3	3.3	2.7	2.7
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°	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6
2.5°	2019.1	2021.9	2015.9	2025.2	2061.4	2032.3	2044.4	2048.2	2075.6	2080.5	2077.3
5°	1942.4	1954.5	1962.1	1983.0	2023.0	2002.1	2023.5	2037.2	2072.3	2083.8	2086.6
7.5°	1882.1	1907.3	1925.9	1959.9	2007.1	1991.2	2023.5	2046.0	2088.8	2103.6	2110.7
10°	1837.1	1875.5	1907.9	1954.5	2007.6	1997.2	2039.4	2071.2	2118.9	2136.5	2145.2
12.5°	1803.1	1849.7	1893.0	1952.3	2009.8	2004.9	2055.9	2092.1	2142.5	2160.0	2170.5
15°	1765.9	1819.6	1870.0	1936.4	1998.3	1997.2	2052.0	2090.4	2141.9	2156.7	2166.6
17.5°	1721.5	1779.0	1834.4	1906.2	1967.6	1968.7	2024.1	2061.9	2112.3	2124.4	2131.0
20°	1676.5	1733.5	1788.9	1862.9	1923.2	1924.8	1979.1	2014.2	2062.5	2072.3	2074.0
22.5°	1628.8	1682.0	1737.4	1810.8	1868.9	1870.0	1923.8	1956.6	1997.8	2002.7	2007.1
25°	1574.5	1626.6	1678.7	1751.6	1807.0	1810.3	1859.1	1888.1	1925.9	1929.8	1931.4
27.5°	1518.1	1560.8	1610.7	1673.2	1729.1	1726.9	1773.0	1805.9	1839.9	1837.7	1837.1
30°	1461.0	1496.7	1527.4	1587.7	1628.8	1630.4	1673.8	1689.7	1725.3	1720.9	1720.4
32.5°	1421.0	1430.3	1438.6	1469.3	1508.2	1494.5	1524.1	1543.8	1568.5	1566.9	1567.4
35°	1347.6	1330.6	1305.9	1310.3	1333.9	1312.5	1328.4	1327.8	1353.0	1347.0	1354.1
37.5°	1222.0	1173.8	1118.9	1087.7	1092.1	1065.2	1059.7	1072.9	1081.7	1064.7	1070.7
40°	1088.2	1017.0	931.4	860.2	856.3	822.9	816.9	803.7	820.7	806.5	810.8
42.5°	989.6	895.3	782.9	696.3	677.6	649.7	633.2	631.0	636.0	626.1	623.3
45°	913.9	813.6	684.7	585.5	564.7	534.5	518.1	512.0	512.6	509.3	506.6
47.5°	825.1	724.2	593.7	492.3	468.7	440.2	423.8	419.9	422.1	417.8	414.5
50°	702.3	611.8	492.9	400.2	379.4	358.5	345.4	341.5	341.0	337.7	335.5
52.5°	570.2	495.1	392.0	314.7	296.0	275.8	266.4	261.5	262.1	258.8	255.5
55°	441.3	394.7	303.7	237.9	220.9	205.0	196.3	190.2	188.6	185.3	183.7
57.5°	328.4	297.1	227.5	171.6	161.7	146.4	137.6	130.5	129.4	127.7	127.2
60°	230.3	207.8	160.1	122.3	110.7	101.4	92.7	85.5	82.2	81.7	80.0
62.5°	149.1	135.4	105.3	81.7	72.9	66.3	57.6	52.6	50.4	48.2	48.8
65°	92.7	82.2	65.8	52.6	47.7	42.8	36.2	31.8	29.6	27.4	28.0
67.5°	57.6	51.5	41.7	34.0	30.7	26.9	21.9	18.6	17.0	15.4	14.3
70°	38.9	33.4	28.5	24.1	21.9	19.2	15.9	13.2	12.1	11.0	9.9
72.5°	27.4	24.7	20.8	18.1	16.4	14.3	12.1	10.4	9.3	8.2	7.1
75°	19.7	17.5	15.4	13.2	12.1	11.0	9.3	8.2	7.1	6.0	4.9
77.5°	14.3	12.6	11.0	9.9	9.3	7.7	6.6	6.0	5.5	4.4	3.3
80°	9.9	8.8	7.1	6.6	6.6	5.5	4.9	4.4	3.8	2.7	2.2
82.5°	6.6	6.0	5.5	4.9	4.4	3.8	3.8	2.7	2.2	1.6	1.1
85°	4.9	4.4	3.8	3.3	3.3	2.7	2.2	1.6	1.6	1.1	0.5
87.5°	2.7	2.7	2.2	1.6	1.6	1.1	1.1	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°	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6
2.5°	2105.2	2106.9	2116.2	2109.1	2127.1	2140.3	2133.7	2148.5	2143.6	2142.5	2159.5
5°	2119.5	2123.3	2135.9	2129.3	2149.1	2163.3	2156.7	2173.2	2168.3	2167.2	2184.7
7.5°	2146.9	2150.7	2161.7	2156.2	2177.0	2189.6	2181.4	2199.5	2192.9	2192.4	2209.4
10°	2181.4	2186.9	2196.2	2190.7	2209.9	2220.9	2212.7	2230.2	2224.2	2221.4	2240.1
12.5°	2207.2	2211.0	2220.3	2216.0	2234.6	2242.8	2235.7	2252.7	2245.0	2242.8	2259.3
15°	2201.2	2205.0	2212.7	2208.8	2226.4	2234.1	2224.7	2243.4	2235.7	2231.3	2246.1
17.5°	2162.8	2165.0	2170.5	2166.6	2185.3	2190.2	2179.8	2198.4	2191.3	2183.6	2197.9
20°	2106.3	2105.2	2108.5	2106.9	2122.2	2125.0	2118.4	2132.1	2123.9	2119.5	2127.7
22.5°	2036.1	2035.0	2037.2	2032.8	2048.2	2049.8	2040.0	2056.4	2048.2	2040.0	2053.7
25°	1958.3	1952.3	1951.2	1952.8	1963.2	1964.9	1954.5	1966.5	1956.1	1949.5	1962.7
27.5°	1862.3	1854.7	1853.0	1854.7	1865.1	1857.4	1848.6	1857.4	1847.0	1841.0	1849.2
30°	1743.9	1733.0	1728.0	1724.7	1735.7	1733.0	1712.7	1722.5	1706.1	1697.3	1703.4
32.5°	1584.4	1578.4	1565.2	1557.5	1567.9	1547.1	1534.5	1534.5	1527.9	1513.1	1516.4
35°	1362.9	1353.6	1341.5	1334.9	1336.6	1308.6	1287.8	1292.2	1270.3	1266.4	1268.1
37.5°	1082.8	1067.4	1063.0	1049.3	1052.6	1027.9	999.4	1000.0	988.5	976.4	972.6
40°	813.6	810.8	806.5	794.9	799.3	772.5	761.5	762.0	754.4	745.6	750.0
42.5°	628.8	620.1	617.3	613.5	614.6	610.2	595.9	597.6	591.0	588.8	586.6
45°	511.0	501.6	495.1	498.3	498.3	493.4	487.9	491.2	487.9	483.5	485.7
47.5°	421.0	412.3	409.0	408.4	412.3	409.0	403.5	404.6	404.0	402.4	401.3
50°	336.1	333.9	331.1	329.5	331.1	330.0	325.1	327.8	329.5	324.0	325.7
52.5°	256.0	256.0	255.5	251.6	254.9	251.6	251.1	252.2	250.5	248.3	247.8
55°	187.5	185.9	183.1	182.6	183.7	182.6	181.5	182.0	183.1	177.6	177.6
57.5°	128.3	127.2	125.5	125.5	127.7	125.0	123.4	125.5	123.4	121.2	121.2
60°	82.2	81.7	80.0	80.0	80.0	79.5	77.8	78.4	79.5	76.2	76.8
62.5°	49.3	47.7	47.1	46.6	47.1	46.6	46.6	46.1	45.5	45.5	43.9
65°	26.9	25.8	24.7	25.2	25.2	24.7	24.7	24.7	23.6	23.0	22.5
67.5°	13.7	12.6	12.6	12.1	12.1	12.1	12.1	11.5	11.5	11.5	11.0
70°	8.8	8.2	7.7	7.7	7.7	7.1	7.1	7.1	7.1	7.1	6.6
72.5°	6.0	5.5	4.9	4.9	4.9	4.4	4.4	4.4	4.4	3.8	3.8
75°	4.4	3.8	3.3	3.3	3.3	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.2	2.2	2.2	2.2	1.6	1.6	1.6	1.6	1.6	1.1
80°	1.6	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
82.5°	1.1	1.1	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: P245409

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6	2086.6
2.5°	2153.5	2149.1	2151.8	2172.1	2163.3	2160.6	2137.6	2157.8
5°	2179.2	2175.9	2175.9	2199.0	2188.5	2186.4	2163.9	2181.4
7.5°	2203.3	2200.1	2200.6	2224.2	2216.0	2212.7	2190.2	2207.7
10°	2234.6	2232.4	2233.0	2255.4	2246.7	2243.4	2220.3	2238.4
12.5°	2253.2	2249.9	2249.9	2274.1	2264.2	2259.3	2237.3	2254.9
15°	2239.0	2234.1	2234.1	2258.2	2247.2	2240.1	2220.9	2237.3
17.5°	2190.2	2185.3	2185.3	2206.1	2197.9	2187.5	2167.7	2183.1
20°	2122.2	2116.2	2114.5	2138.7	2127.1	2117.8	2100.3	2115.1
22.5°	2045.5	2042.7	2037.8	2061.9	2051.5	2041.6	2023.0	2034.5
25°	1953.4	1949.0	1944.0	1967.6	1957.2	1947.3	1932.5	1941.8
27.5°	1838.8	1839.3	1836.6	1855.2	1844.8	1839.3	1821.2	1836.6
30°	1700.1	1694.0	1691.8	1713.8	1703.9	1696.8	1674.3	1689.1
32.5°	1519.2	1510.4	1498.9	1523.5	1506.5	1500.5	1481.3	1502.7
35°	1256.0	1253.3	1242.8	1263.7	1254.4	1243.4	1231.3	1249.4
37.5°	970.9	973.1	972.0	977.5	972.0	964.9	951.7	945.2
40°	741.2	735.7	731.3	741.2	729.7	729.7	722.0	730.2
42.5°	581.1	578.9	584.4	586.6	580.0	578.9	577.8	577.3
45°	479.7	479.7	480.8	483.0	480.8	479.7	476.4	474.2
47.5°	395.3	397.5	395.3	402.4	398.6	397.5	390.9	393.6
50°	320.2	317.4	320.2	322.4	322.9	319.6	316.3	318.0
52.5°	248.3	244.0	242.9	246.2	244.0	244.0	241.8	241.2
55°	174.9	176.5	173.8	176.5	175.4	173.8	172.1	174.3
57.5°	118.4	119.0	117.9	119.5	116.8	117.3	116.8	116.2
60°	76.8	74.6	74.6	76.2	73.5	73.5	72.9	72.9
62.5°	43.9	43.3	43.3	42.8	42.2	42.2	42.2	41.1
65°	22.5	21.9	21.4	21.4	21.4	21.4	20.8	20.8
67.5°	11.0	10.4	10.4	11.0	10.4	10.4	10.4	10.4
70°	6.6	6.6	6.0	6.6	6.0	6.0	6.0	6.0
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)