

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: P244570

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3920.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

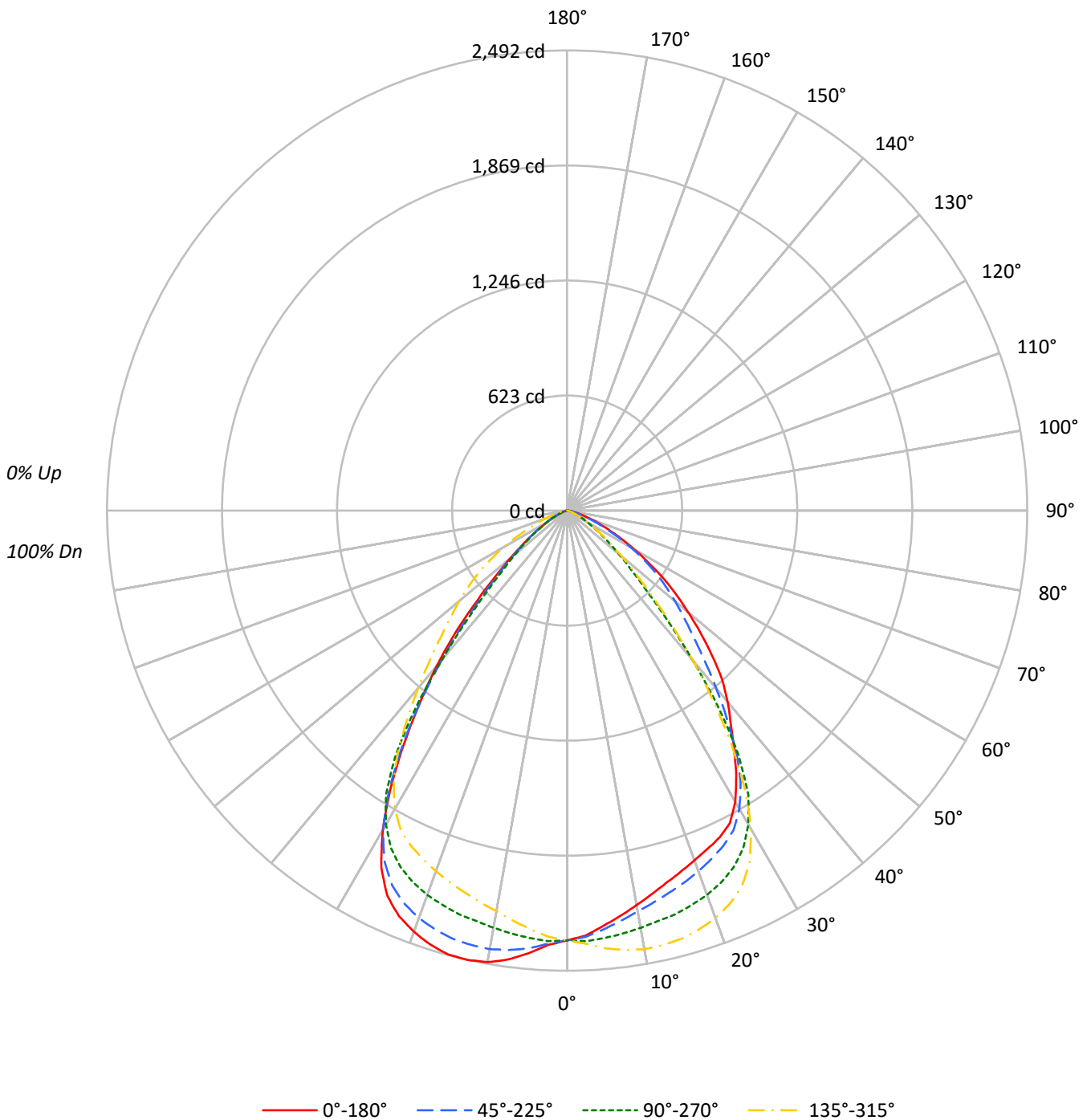
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°	270°
0°	71762	71762	71762	71762
5°	69854	71931	74497	71931
10°	67922	71836	77741	71836
15°	66565	72263	79443	72263
20°	66113	72676	79649	72676
25°	66459	72529	78368	72529
30°	64818	69875	71132	69875
35°	59286	60953	57833	60953
40°	54431	42399	44279	42399
45°	48367	25869	29929	25869
50°	40940	17280	19189	17280
55°	33907	11790	12462	11790
60°	25859	7851	7919	7851
65°	18321	4889	4480	4889
70°	13217	3273	2975	3273
75°	8388	1632	1358	1632
80°	5860	1208	1012	1208
85°	5236	0	389	0



TEST NUMBER: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.5	5.7
10°-20°	641.4	16.4
20°-30°	971.3	24.8
30°-40°	973.4	24.8
40°-50°	611.3	15.6
50°-60°	325.8	8.3
60°-70°	134.0	3.4
70°-80°	35.4	0.9
80°-90°	6.0	0.2
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°	1834.2	46.8
0°-40°	2807.6	71.6
0°-60°	3744.7	95.5
0°-90°	3920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2327	2327	2327	2327	2327	
5°	2257	2324	2407	2324	2257	213
15°	2085	2264	2488	2264	2085	590
25°	1953	2132	2303	2132	1953	896
35°	1575	1619	1536	1619	1575	987
45°	1109	593	686	593	1109	853
55°	631	219	232	219	631	562
65°	251	67	61	67	251	260
75°	70	14	11	14	70	80
85°	15	0	1	0	15	16
90°	0	0	0	0	0	



TEST NUMBER: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2303.3	2301.0	2299.9	2302.2	2303.3	2307.9	2306.7	2309.0	2309.0	2310.2	2312.4
5°	2256.7	2255.6	2256.7	2256.7	2261.3	2265.8	2264.7	2268.1	2270.4	2276.1	2278.3
7.5°	2213.6	2213.6	2212.4	2216.9	2219.2	2226.1	2224.9	2230.6	2234.0	2239.7	2247.6
10°	2169.2	2169.2	2170.4	2173.8	2174.9	2185.1	2185.1	2193.1	2197.6	2203.3	2213.6
12.5°	2126.1	2126.1	2132.9	2130.6	2135.1	2143.1	2146.5	2154.5	2161.3	2172.6	2182.9
15°	2085.1	2085.1	2087.4	2093.1	2096.5	2106.7	2112.4	2121.5	2129.5	2140.8	2155.6
17.5°	2049.9	2048.8	2049.9	2056.7	2063.6	2072.6	2077.2	2088.5	2096.5	2111.3	2124.9
20°	2014.7	2017.0	2017.0	2022.6	2027.2	2038.6	2043.1	2055.6	2064.7	2078.3	2094.3
22.5°	1984.0	1982.9	1982.9	1990.8	1994.3	2004.5	2009.0	2020.4	2030.6	2042.0	2056.7
25°	1953.3	1951.0	1955.6	1956.7	1959.0	1970.4	1973.8	1981.7	1992.0	2002.2	2017.0
27.5°	1907.9	1905.6	1906.7	1911.3	1914.7	1923.8	1926.1	1934.0	1942.0	1951.0	1963.6
30°	1820.4	1818.1	1817.0	1824.9	1828.4	1835.1	1838.6	1852.2	1854.5	1864.7	1873.8
32.5°	1704.5	1703.3	1705.6	1712.4	1715.8	1724.9	1729.5	1737.4	1743.1	1748.8	1757.9
35°	1574.9	1572.7	1574.9	1581.8	1581.8	1589.7	1593.1	1596.5	1595.4	1596.5	1594.3
37.5°	1454.5	1453.3	1454.5	1457.9	1454.5	1457.9	1454.5	1447.7	1435.2	1421.5	1407.9
40°	1352.2	1353.3	1346.6	1351.1	1338.6	1336.3	1323.8	1306.8	1281.8	1254.5	1215.9
42.5°	1243.1	1239.7	1235.2	1237.4	1227.2	1219.2	1198.8	1177.2	1145.4	1100.0	1053.3
45°	1109.1	1107.9	1105.6	1104.5	1097.7	1089.7	1072.7	1047.7	1012.5	965.9	910.2
47.5°	978.4	975.0	975.0	976.1	968.1	967.0	953.4	931.8	901.1	855.6	797.7
50°	853.4	852.2	854.5	859.1	853.4	851.1	842.0	827.3	800.0	761.4	706.8
52.5°	740.9	739.7	742.0	747.7	745.4	747.7	738.6	727.3	709.1	671.6	623.8
55°	630.7	630.7	630.7	637.5	637.5	637.5	632.9	626.1	609.1	581.8	537.5
57.5°	515.9	517.0	523.8	525.0	523.8	526.1	525.0	518.1	506.8	487.5	453.4
60°	419.3	419.3	422.7	426.1	425.0	426.1	426.1	422.7	411.4	395.5	368.2
62.5°	331.8	335.2	332.9	335.2	339.8	335.2	332.9	330.7	322.7	312.5	289.8
65°	251.1	253.4	253.4	254.5	252.2	253.4	248.9	245.5	240.9	229.6	214.8
67.5°	190.9	190.9	190.9	190.9	189.8	188.6	187.5	184.1	176.1	171.6	155.7
70°	146.6	139.8	139.8	139.8	139.8	140.9	137.5	133.0	130.7	122.7	111.4
72.5°	97.7	100.0	97.7	97.7	95.5	96.6	92.0	89.8	87.5	83.0	76.1
75°	70.4	64.8	67.0	68.2	64.8	67.0	62.5	58.0	58.0	54.5	51.1
77.5°	45.5	44.3	45.5	46.6	45.5	44.3	42.0	39.8	39.8	38.6	35.2
80°	33.0	31.8	31.8	31.8	30.7	31.8	29.6	29.6	27.3	26.1	23.9
82.5°	21.6	21.6	20.4	21.6	20.4	21.6	18.2	18.2	18.2	17.0	14.8
85°	14.8	12.5	12.5	13.7	11.4	13.7	12.5	11.4	10.2	10.2	9.1
87.5°	6.8	8.0	6.8	8.0	6.8	6.8	8.0	6.8	6.8	4.5	4.5
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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2315.8	2316.9	2316.9	2321.5	2323.8	2324.9	2324.9	2334.0	2330.6	2332.9	2335.1
5°	2282.9	2289.7	2292.0	2292.0	2304.4	2309.0	2313.5	2323.8	2324.9	2331.7	2339.7
7.5°	2251.0	2259.0	2263.6	2273.8	2281.7	2289.7	2303.3	2310.2	2316.9	2326.1	2336.3
10°	2220.4	2229.5	2238.5	2246.5	2259.0	2269.2	2278.3	2294.2	2302.2	2314.7	2328.3
12.5°	2190.8	2203.3	2211.3	2224.9	2238.5	2247.6	2261.3	2276.1	2288.5	2301.0	2316.9
15°	2164.7	2179.5	2188.5	2203.3	2218.1	2230.6	2245.4	2263.6	2272.6	2287.4	2302.2
17.5°	2136.3	2152.2	2163.6	2177.2	2195.4	2209.0	2221.5	2239.7	2251.0	2266.9	2284.0
20°	2106.7	2122.6	2136.3	2149.9	2168.1	2181.7	2196.5	2214.7	2227.2	2243.1	2256.7
22.5°	2071.5	2086.3	2101.0	2116.9	2135.1	2146.5	2163.6	2179.5	2193.1	2207.9	2221.5
25°	2026.1	2044.3	2055.6	2070.4	2085.1	2097.6	2115.8	2131.7	2143.1	2156.7	2169.2
27.5°	1972.6	1986.3	1995.4	2007.9	2022.6	2034.0	2047.6	2063.6	2074.9	2087.4	2096.5
30°	1881.7	1894.3	1902.2	1911.3	1926.1	1936.3	1947.7	1962.4	1970.4	1979.5	1987.4
32.5°	1762.4	1772.7	1777.2	1784.0	1794.3	1804.5	1813.6	1826.1	1829.5	1835.1	1835.1
35°	1589.7	1592.0	1590.9	1593.1	1597.7	1603.3	1611.3	1619.2	1623.8	1623.8	1620.4
37.5°	1387.4	1373.8	1359.0	1347.7	1344.3	1342.0	1346.6	1349.9	1354.5	1356.8	1351.1
40°	1177.2	1146.6	1113.6	1084.0	1063.6	1054.5	1051.1	1053.3	1053.3	1061.3	1061.3
42.5°	996.6	948.8	900.0	855.6	826.1	803.4	793.2	793.2	794.3	800.0	803.4
45°	846.6	786.3	729.5	680.7	639.7	610.2	596.6	593.2	592.0	594.3	602.2
47.5°	731.8	669.3	610.2	550.0	506.8	477.3	464.8	460.2	455.7	460.2	461.4
50°	642.0	577.3	514.8	454.5	409.1	382.9	367.0	360.2	359.1	359.1	361.4
52.5°	560.2	500.0	437.5	376.1	328.4	303.4	288.6	285.2	280.7	285.2	285.2
55°	482.9	422.7	361.4	303.4	263.6	237.5	223.9	219.3	217.0	220.4	220.4
57.5°	398.9	347.7	290.9	238.6	198.9	180.7	170.4	164.8	163.6	165.9	163.6
60°	327.3	284.1	235.2	187.5	156.8	137.5	129.6	127.3	125.0	127.3	127.3
62.5°	259.1	222.7	182.9	146.6	120.4	106.8	97.7	97.7	96.6	96.6	97.7
65°	192.0	163.6	135.2	104.5	84.1	73.9	67.0	67.0	65.9	67.0	65.9
67.5°	139.8	120.4	97.7	76.1	60.2	54.5	50.0	46.6	48.9	46.6	45.5
70°	102.3	86.3	70.4	58.0	46.6	40.9	37.5	36.3	34.1	34.1	34.1
72.5°	68.2	58.0	47.7	37.5	30.7	25.0	23.9	21.6	19.3	20.4	22.7
75°	45.5	38.6	34.1	27.3	20.4	20.4	13.7	13.7	11.4	13.7	10.2
77.5°	31.8	26.1	20.4	17.0	13.7	12.5	9.1	9.1	8.0	8.0	8.0
80°	22.7	19.3	14.8	12.5	9.1	9.1	8.0	6.8	5.7	5.7	6.8
82.5°	13.7	10.2	10.2	9.1	5.7	4.5	3.4	4.5	2.3	2.3	2.3
85°	8.0	6.8	5.7	3.4	2.3	2.3	1.1	0.0	1.1	1.1	0.0
87.5°	4.5	2.3	2.3	1.1	0.0	1.1	1.1	0.0	0.0	0.0	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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2340.8	2339.7	2342.0	2342.0	2348.8	2347.6	2351.0	2351.0	2348.8	2349.9	2354.4
5°	2348.8	2352.2	2359.0	2364.7	2374.9	2379.5	2385.1	2390.8	2392.0	2395.4	2398.8
7.5°	2348.8	2360.2	2368.1	2378.3	2392.0	2399.9	2412.4	2422.6	2427.2	2432.8	2439.7
10°	2344.2	2355.6	2370.4	2381.7	2398.8	2411.3	2423.8	2439.7	2446.5	2455.6	2464.7
12.5°	2335.1	2347.6	2363.5	2378.3	2397.6	2409.0	2424.9	2439.7	2449.9	2462.4	2472.6
15°	2321.5	2336.3	2351.0	2365.8	2386.3	2399.9	2414.7	2431.7	2442.0	2455.6	2464.7
17.5°	2299.9	2315.8	2329.5	2343.1	2362.4	2378.3	2392.0	2407.9	2418.1	2429.5	2442.0
20°	2273.8	2288.5	2303.3	2314.7	2334.0	2347.6	2362.4	2377.2	2385.1	2387.4	2406.7
22.5°	2240.8	2251.0	2262.4	2280.6	2292.0	2304.4	2318.1	2331.7	2339.7	2352.2	2359.0
25°	2186.3	2196.5	2209.0	2216.9	2230.6	2240.8	2254.4	2269.2	2273.8	2282.9	2289.7
27.5°	2110.2	2115.8	2121.5	2128.3	2136.3	2142.0	2149.9	2156.7	2161.3	2165.8	2170.4
30°	1989.7	1989.7	1989.7	1985.1	1988.6	1992.0	1993.1	1992.0	1992.0	1990.8	1990.8
32.5°	1830.6	1821.5	1811.3	1802.2	1798.8	1794.3	1792.0	1788.6	1782.9	1779.5	1780.6
35°	1615.8	1595.4	1582.9	1571.5	1562.5	1555.6	1552.2	1548.8	1547.7	1543.1	1538.6
37.5°	1347.7	1332.9	1323.8	1317.0	1309.1	1302.2	1303.3	1304.5	1307.9	1305.6	1306.8
40°	1063.6	1060.2	1063.6	1055.6	1053.3	1055.6	1061.3	1069.3	1073.8	1078.4	1086.3
42.5°	809.1	814.7	822.7	822.7	826.1	830.7	837.4	850.0	856.8	864.7	873.8
45°	609.1	615.9	626.1	629.5	631.8	637.5	645.5	655.6	660.2	667.0	675.0
47.5°	469.3	473.8	479.5	485.2	490.9	493.2	501.1	501.1	506.8	511.4	513.6
50°	365.9	370.4	375.0	378.4	380.7	384.1	386.3	389.7	390.9	393.2	394.3
52.5°	286.3	292.0	292.0	294.3	297.7	301.1	300.0	301.1	302.2	302.2	305.7
55°	223.9	223.9	227.3	227.3	229.6	228.4	229.6	229.6	229.6	229.6	230.7
57.5°	167.0	168.2	171.6	169.3	168.2	170.4	168.2	170.4	169.3	171.6	168.2
60°	128.4	128.4	129.6	129.6	130.7	130.7	130.7	129.6	129.6	128.4	128.4
62.5°	96.6	97.7	98.9	97.7	97.7	97.7	96.6	96.6	95.5	94.3	94.3
65°	64.8	63.7	65.9	63.7	64.8	64.8	63.7	64.8	61.4	62.5	61.4
67.5°	46.6	45.5	44.3	45.5	44.3	43.2	43.2	44.3	45.5	42.0	42.0
70°	30.7	31.8	30.7	31.8	33.0	33.0	31.8	30.7	31.8	29.6	30.7
72.5°	19.3	19.3	19.3	19.3	19.3	20.4	20.4	20.4	18.2	18.2	17.0
75°	9.1	12.5	10.2	9.1	12.5	12.5	11.4	11.4	10.2	10.2	10.2
77.5°	9.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.7	6.8	5.7
80°	4.5	4.5	4.5	3.4	4.5	4.5	5.7	4.5	4.5	3.4	5.7
82.5°	2.3	2.3	2.3	0.0	1.1	2.3	2.3	1.1	2.3	2.3	1.1
85°	0.0	0.0	0.0	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	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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2353.3	2352.2	2353.3	2354.4	2353.3	2352.2	2353.3	2354.4	2349.9	2348.8	2351.0
5°	2403.3	2403.3	2405.6	2406.7	2405.6	2403.3	2403.3	2398.8	2395.4	2392.0	2390.8
7.5°	2446.5	2448.8	2451.0	2452.2	2451.0	2448.8	2446.5	2439.7	2432.8	2427.2	2422.6
10°	2472.6	2476.1	2480.6	2482.8	2480.6	2476.1	2472.6	2464.7	2455.6	2446.5	2439.7
12.5°	2484.0	2487.4	2493.1	2492.0	2493.1	2487.4	2484.0	2472.6	2462.4	2449.9	2439.7
15°	2476.1	2480.6	2486.3	2488.5	2486.3	2480.6	2476.1	2464.7	2455.6	2442.0	2431.7
17.5°	2451.0	2457.9	2461.3	2464.7	2461.3	2457.9	2451.0	2442.0	2429.5	2418.1	2407.9
20°	2416.9	2421.5	2426.1	2427.2	2426.1	2421.5	2416.9	2406.7	2387.4	2385.1	2377.2
22.5°	2368.1	2371.5	2381.7	2378.3	2381.7	2371.5	2368.1	2359.0	2352.2	2339.7	2331.7
25°	2297.6	2301.0	2302.2	2303.3	2302.2	2301.0	2297.6	2289.7	2282.9	2273.8	2269.2
27.5°	2176.1	2176.1	2178.3	2179.5	2178.3	2176.1	2176.1	2170.4	2165.8	2161.3	2156.7
30°	1992.0	1992.0	1992.0	1997.7	1992.0	1992.0	1992.0	1990.8	1990.8	1992.0	1992.0
32.5°	1779.5	1777.2	1774.9	1777.2	1774.9	1777.2	1779.5	1780.6	1779.5	1782.9	1788.6
35°	1538.6	1537.4	1540.9	1536.3	1540.9	1537.4	1538.6	1538.6	1543.1	1547.7	1548.8
37.5°	1307.9	1305.6	1310.2	1305.6	1310.2	1305.6	1307.9	1306.8	1305.6	1307.9	1304.5
40°	1088.6	1090.9	1090.9	1100.0	1090.9	1090.9	1088.6	1086.3	1078.4	1073.8	1069.3
42.5°	878.4	885.2	882.9	889.7	882.9	885.2	878.4	873.8	864.7	856.8	850.0
45°	679.5	684.1	684.1	686.3	684.1	684.1	679.5	675.0	667.0	660.2	655.6
47.5°	521.6	521.6	521.6	522.7	521.6	521.6	521.6	513.6	511.4	506.8	501.1
50°	396.6	397.7	398.9	400.0	398.9	397.7	396.6	394.3	393.2	390.9	389.7
52.5°	304.5	305.7	303.4	305.7	303.4	305.7	304.5	305.7	302.2	302.2	301.1
55°	230.7	229.6	230.7	231.8	230.7	229.6	230.7	230.7	229.6	229.6	229.6
57.5°	169.3	167.0	167.0	167.0	167.0	167.0	169.3	168.2	171.6	169.3	170.4
60°	126.1	127.3	127.3	128.4	127.3	127.3	126.1	128.4	128.4	129.6	129.6
62.5°	93.2	96.6	94.3	96.6	94.3	96.6	93.2	94.3	94.3	95.5	96.6
65°	60.2	60.2	60.2	61.4	60.2	60.2	60.2	61.4	62.5	61.4	64.8
67.5°	40.9	42.0	44.3	43.2	44.3	42.0	40.9	42.0	42.0	45.5	44.3
70°	33.0	29.6	29.6	33.0	29.6	29.6	33.0	30.7	29.6	31.8	30.7
72.5°	19.3	17.0	19.3	19.3	19.3	17.0	19.3	17.0	18.2	18.2	20.4
75°	10.2	9.1	8.0	11.4	8.0	9.1	10.2	10.2	10.2	10.2	11.4
77.5°	6.8	5.7	8.0	8.0	8.0	5.7	6.8	5.7	6.8	5.7	6.8
80°	3.4	4.5	3.4	5.7	3.4	4.5	3.4	5.7	3.4	4.5	4.5
82.5°	1.1	2.3	2.3	2.3	2.3	2.3	1.1	1.1	2.3	2.3	1.1
85°	0.0	2.3	1.1	1.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2351.0	2347.6	2348.8	2342.0	2342.0	2339.7	2340.8	2335.1	2332.9	2330.6	2334.0
5°	2385.1	2379.5	2374.9	2364.7	2359.0	2352.2	2348.8	2339.7	2331.7	2324.9	2323.8
7.5°	2412.4	2399.9	2392.0	2378.3	2368.1	2360.2	2348.8	2336.3	2326.1	2316.9	2310.2
10°	2423.8	2411.3	2398.8	2381.7	2370.4	2355.6	2344.2	2328.3	2314.7	2302.2	2294.2
12.5°	2424.9	2409.0	2397.6	2378.3	2363.5	2347.6	2335.1	2316.9	2301.0	2288.5	2276.1
15°	2414.7	2399.9	2386.3	2365.8	2351.0	2336.3	2321.5	2302.2	2287.4	2272.6	2263.6
17.5°	2392.0	2378.3	2362.4	2343.1	2329.5	2315.8	2299.9	2284.0	2266.9	2251.0	2239.7
20°	2362.4	2347.6	2334.0	2314.7	2303.3	2288.5	2273.8	2256.7	2243.1	2227.2	2214.7
22.5°	2318.1	2304.4	2292.0	2280.6	2262.4	2251.0	2240.8	2221.5	2207.9	2193.1	2179.5
25°	2254.4	2240.8	2230.6	2216.9	2209.0	2196.5	2186.3	2169.2	2156.7	2143.1	2131.7
27.5°	2149.9	2142.0	2136.3	2128.3	2121.5	2115.8	2110.2	2096.5	2087.4	2074.9	2063.6
30°	1993.1	1992.0	1988.6	1985.1	1989.7	1989.7	1989.7	1987.4	1979.5	1970.4	1962.4
32.5°	1792.0	1794.3	1798.8	1802.2	1811.3	1821.5	1830.6	1835.1	1835.1	1829.5	1826.1
35°	1552.2	1555.6	1562.5	1571.5	1582.9	1595.4	1615.8	1620.4	1623.8	1623.8	1619.2
37.5°	1303.3	1302.2	1309.1	1317.0	1323.8	1332.9	1347.7	1351.1	1356.8	1354.5	1349.9
40°	1061.3	1055.6	1053.3	1055.6	1063.6	1060.2	1063.6	1061.3	1061.3	1053.3	1053.3
42.5°	837.4	830.7	826.1	822.7	822.7	814.7	809.1	803.4	800.0	794.3	793.2
45°	645.5	637.5	631.8	629.5	626.1	615.9	609.1	602.2	594.3	592.0	593.2
47.5°	501.1	493.2	490.9	485.2	479.5	473.8	469.3	461.4	460.2	455.7	460.2
50°	386.3	384.1	380.7	378.4	375.0	370.4	365.9	361.4	359.1	359.1	360.2
52.5°	300.0	301.1	297.7	294.3	292.0	292.0	286.3	285.2	285.2	280.7	285.2
55°	229.6	228.4	229.6	227.3	227.3	223.9	223.9	220.4	220.4	217.0	219.3
57.5°	168.2	170.4	168.2	169.3	171.6	168.2	167.0	163.6	165.9	163.6	164.8
60°	130.7	130.7	130.7	129.6	129.6	128.4	128.4	127.3	127.3	125.0	127.3
62.5°	96.6	97.7	97.7	97.7	98.9	97.7	96.6	97.7	96.6	96.6	97.7
65°	63.7	64.8	64.8	63.7	65.9	63.7	64.8	65.9	67.0	65.9	67.0
67.5°	43.2	43.2	44.3	45.5	44.3	45.5	46.6	45.5	46.6	48.9	46.6
70°	31.8	33.0	33.0	31.8	30.7	31.8	30.7	34.1	34.1	34.1	36.3
72.5°	20.4	20.4	19.3	19.3	19.3	19.3	19.3	22.7	20.4	19.3	21.6
75°	11.4	12.5	12.5	9.1	10.2	12.5	9.1	10.2	13.7	11.4	13.7
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	8.0	8.0	8.0	9.1
80°	5.7	4.5	4.5	3.4	4.5	4.5	4.5	6.8	5.7	5.7	6.8
82.5°	2.3	2.3	1.1	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2324.9	2324.9	2323.8	2321.5	2316.9	2316.9	2315.8	2312.4	2310.2	2309.0	2309.0
5°	2313.5	2309.0	2304.4	2292.0	2292.0	2289.7	2282.9	2278.3	2276.1	2270.4	2268.1
7.5°	2303.3	2289.7	2281.7	2273.8	2263.6	2259.0	2251.0	2247.6	2239.7	2234.0	2230.6
10°	2278.3	2269.2	2259.0	2246.5	2238.5	2229.5	2220.4	2213.6	2203.3	2197.6	2193.1
12.5°	2261.3	2247.6	2238.5	2224.9	2211.3	2203.3	2190.8	2182.9	2172.6	2161.3	2154.5
15°	2245.4	2230.6	2218.1	2203.3	2188.5	2179.5	2164.7	2155.6	2140.8	2129.5	2121.5
17.5°	2221.5	2209.0	2195.4	2177.2	2163.6	2152.2	2136.3	2124.9	2111.3	2096.5	2088.5
20°	2196.5	2181.7	2168.1	2149.9	2136.3	2122.6	2106.7	2094.3	2078.3	2064.7	2055.6
22.5°	2163.6	2146.5	2135.1	2116.9	2101.0	2086.3	2071.5	2056.7	2042.0	2030.6	2020.4
25°	2115.8	2097.6	2085.1	2070.4	2055.6	2044.3	2026.1	2017.0	2002.2	1992.0	1981.7
27.5°	2047.6	2034.0	2022.6	2007.9	1995.4	1986.3	1972.6	1963.6	1951.0	1942.0	1934.0
30°	1947.7	1936.3	1926.1	1911.3	1902.2	1894.3	1881.7	1873.8	1864.7	1854.5	1852.2
32.5°	1813.6	1804.5	1794.3	1784.0	1777.2	1772.7	1762.4	1757.9	1748.8	1743.1	1737.4
35°	1611.3	1603.3	1597.7	1593.1	1590.9	1592.0	1589.7	1594.3	1596.5	1595.4	1596.5
37.5°	1346.6	1342.0	1344.3	1347.7	1359.0	1373.8	1387.4	1407.9	1421.5	1435.2	1447.7
40°	1051.1	1054.5	1063.6	1084.0	1113.6	1146.6	1177.2	1215.9	1254.5	1281.8	1306.8
42.5°	793.2	803.4	826.1	855.6	900.0	948.8	996.6	1053.3	1100.0	1145.4	1177.2
45°	596.6	610.2	639.7	680.7	729.5	786.3	846.6	910.2	965.9	1012.5	1047.7
47.5°	464.8	477.3	506.8	550.0	610.2	669.3	731.8	797.7	855.6	901.1	931.8
50°	367.0	382.9	409.1	454.5	514.8	577.3	642.0	706.8	761.4	800.0	827.3
52.5°	288.6	303.4	328.4	376.1	437.5	500.0	560.2	623.8	671.6	709.1	727.3
55°	223.9	237.5	263.6	303.4	361.4	422.7	482.9	537.5	581.8	609.1	626.1
57.5°	170.4	180.7	198.9	238.6	290.9	347.7	398.9	453.4	487.5	506.8	518.1
60°	129.6	137.5	156.8	187.5	235.2	284.1	327.3	368.2	395.5	411.4	422.7
62.5°	97.7	106.8	120.4	146.6	182.9	222.7	259.1	289.8	312.5	322.7	330.7
65°	67.0	73.9	84.1	104.5	135.2	163.6	192.0	214.8	229.6	240.9	245.5
67.5°	50.0	54.5	60.2	76.1	97.7	120.4	139.8	155.7	171.6	176.1	184.1
70°	37.5	40.9	46.6	58.0	70.4	86.3	102.3	111.4	122.7	130.7	133.0
72.5°	23.9	25.0	30.7	37.5	47.7	58.0	68.2	76.1	83.0	87.5	89.8
75°	13.7	20.4	20.4	27.3	34.1	38.6	45.5	51.1	54.5	58.0	58.0
77.5°	9.1	12.5	13.7	17.0	20.4	26.1	31.8	35.2	38.6	39.8	39.8
80°	8.0	9.1	9.1	12.5	14.8	19.3	22.7	23.9	26.1	27.3	29.6
82.5°	3.4	4.5	5.7	9.1	10.2	10.2	13.7	14.8	17.0	18.2	18.2
85°	1.1	2.3	2.3	3.4	5.7	6.8	8.0	9.1	10.2	10.2	11.4
87.5°	1.1	1.1	0.0	1.1	2.3	2.3	4.5	4.5	4.5	6.8	6.8
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: P244570

CATALOG NUMBER: LSR8B40D010 EC8B40940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2306.7	2307.9	2303.3	2302.2	2299.9	2301.0	2303.3
5°	2264.7	2265.8	2261.3	2256.7	2256.7	2255.6	2256.7
7.5°	2224.9	2226.1	2219.2	2216.9	2212.4	2213.6	2213.6
10°	2185.1	2185.1	2174.9	2173.8	2170.4	2169.2	2169.2
12.5°	2146.5	2143.1	2135.1	2130.6	2132.9	2126.1	2126.1
15°	2112.4	2106.7	2096.5	2093.1	2087.4	2085.1	2085.1
17.5°	2077.2	2072.6	2063.6	2056.7	2049.9	2048.8	2049.9
20°	2043.1	2038.6	2027.2	2022.6	2017.0	2017.0	2014.7
22.5°	2009.0	2004.5	1994.3	1990.8	1982.9	1982.9	1984.0
25°	1973.8	1970.4	1959.0	1956.7	1955.6	1951.0	1953.3
27.5°	1926.1	1923.8	1914.7	1911.3	1906.7	1905.6	1907.9
30°	1838.6	1835.1	1828.4	1824.9	1817.0	1818.1	1820.4
32.5°	1729.5	1724.9	1715.8	1712.4	1705.6	1703.3	1704.5
35°	1593.1	1589.7	1581.8	1581.8	1574.9	1572.7	1574.9
37.5°	1454.5	1457.9	1454.5	1457.9	1454.5	1453.3	1454.5
40°	1323.8	1336.3	1338.6	1351.1	1346.6	1353.3	1352.2
42.5°	1198.8	1219.2	1227.2	1237.4	1235.2	1239.7	1243.1
45°	1072.7	1089.7	1097.7	1104.5	1105.6	1107.9	1109.1
47.5°	953.4	967.0	968.1	976.1	975.0	975.0	978.4
50°	842.0	851.1	853.4	859.1	854.5	852.2	853.4
52.5°	738.6	747.7	745.4	747.7	742.0	739.7	740.9
55°	632.9	637.5	637.5	637.5	630.7	630.7	630.7
57.5°	525.0	526.1	523.8	525.0	523.8	517.0	515.9
60°	426.1	426.1	425.0	426.1	422.7	419.3	419.3
62.5°	332.9	335.2	339.8	335.2	332.9	335.2	331.8
65°	248.9	253.4	252.2	254.5	253.4	253.4	251.1
67.5°	187.5	188.6	189.8	190.9	190.9	190.9	190.9
70°	137.5	140.9	139.8	139.8	139.8	139.8	146.6
72.5°	92.0	96.6	95.5	97.7	97.7	100.0	97.7
75°	62.5	67.0	64.8	68.2	67.0	64.8	70.4
77.5°	42.0	44.3	45.5	46.6	45.5	44.3	45.5
80°	29.6	31.8	30.7	31.8	31.8	31.8	33.0
82.5°	18.2	21.6	20.4	21.6	20.4	21.6	21.6
85°	12.5	13.7	11.4	13.7	12.5	12.5	14.8
87.5°	8.0	6.8	6.8	8.0	6.8	8.0	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)