

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: P246016

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246016
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 EC8B40950 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4015.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

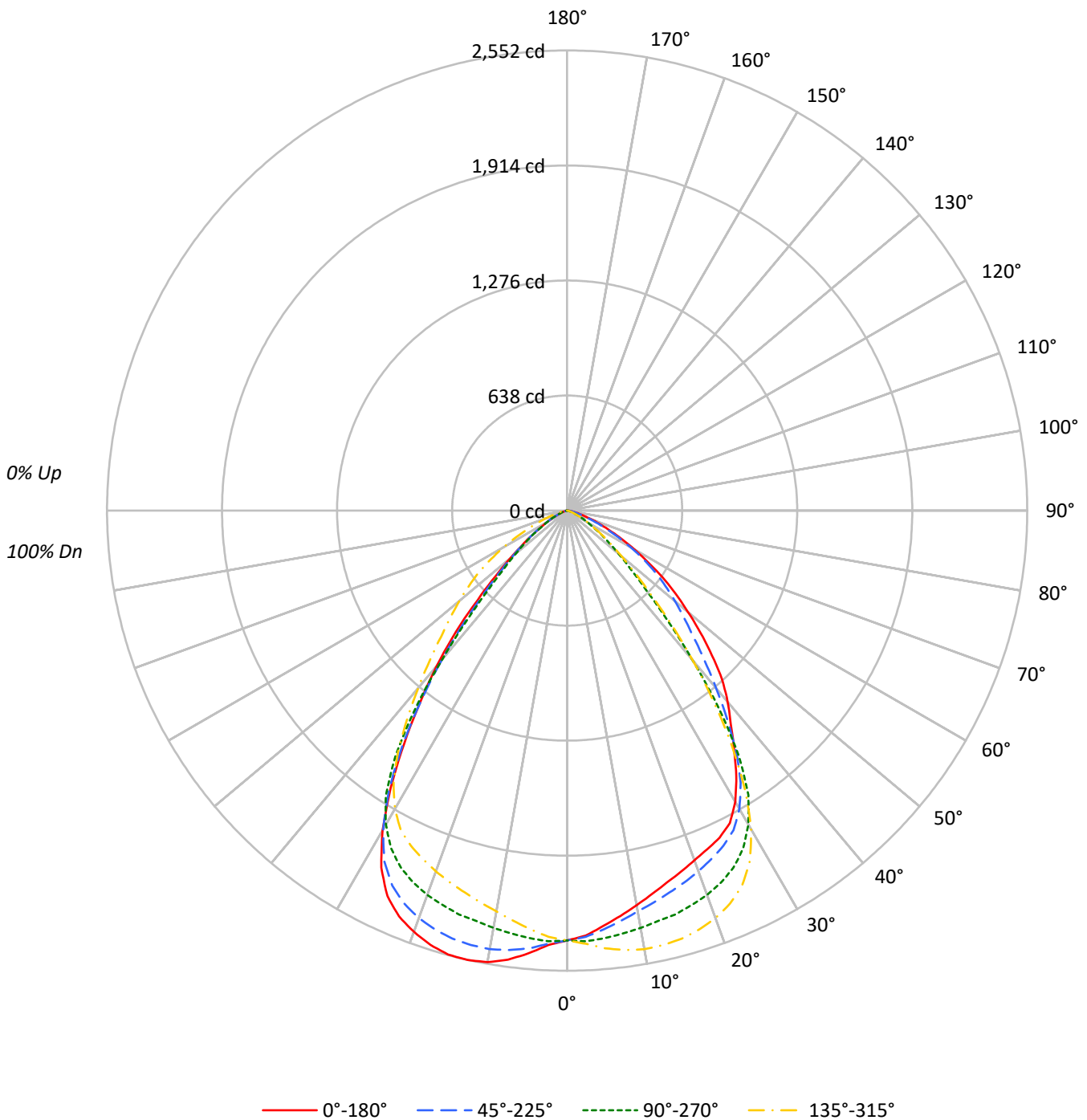
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	73501	73501	73501	73501
5°	71547	73674	76305	73674
10°	69569	73577	79626	73577
15°	68180	74013	81371	74013
20°	67714	74438	81579	74438
25°	68072	74288	80266	74288
30°	66389	71569	72855	71569
35°	60724	62433	59233	62433
40°	55752	43430	45350	43430
45°	49536	26493	30657	26493
50°	41928	17697	19654	17697
55°	34730	12075	12763	12075
60°	26488	8042	8110	8042
65°	18767	5005	4589	5005
70°	13533	3354	3047	3354
75°	8590	1668	1382	1668
80°	6002	1243	1030	1243
85°	5342	0	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	5.7
10°-20°	657.0	16.4
20°-30°	994.8	24.8
30°-40°	997.0	24.8
40°-50°	626.1	15.6
50°-60°	333.6	8.3
60°-70°	137.2	3.4
70°-80°	36.2	0.9
80°-90°	6.1	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°	1878.7	46.8
0°-40°	2875.7	71.6
0°-60°	3835.4	95.5
0°-90°	4015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4015.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2384	2384	2384	2384	2384	
5°	2311	2380	2465	2380	2311	218
15°	2136	2318	2549	2318	2136	604
25°	2001	2183	2359	2183	2001	918
35°	1613	1658	1574	1658	1613	1011
45°	1136	608	703	608	1136	874
55°	646	225	237	225	646	576
65°	257	69	63	69	257	267
75°	72	14	12	14	72	82
85°	15	0	1	0	15	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2359.1	2356.8	2355.6	2358.0	2359.1	2363.8	2362.6	2364.9	2364.9	2366.1	2368.4
5°	2311.4	2310.2	2311.4	2311.4	2316.1	2320.7	2319.6	2323.1	2325.4	2331.2	2333.5
7.5°	2267.2	2267.2	2266.0	2270.7	2273.0	2280.0	2278.8	2284.7	2288.2	2293.9	2302.1
10°	2221.8	2221.8	2223.0	2226.4	2227.6	2238.1	2238.1	2246.2	2250.9	2256.7	2267.2
12.5°	2177.6	2177.6	2184.6	2182.2	2186.9	2195.0	2198.5	2206.7	2213.7	2225.3	2235.8
15°	2135.7	2135.7	2138.0	2143.8	2147.3	2157.8	2163.6	2172.9	2181.1	2192.7	2207.9
17.5°	2099.6	2098.4	2099.6	2106.6	2113.6	2122.9	2127.5	2139.2	2147.3	2162.4	2176.4
20°	2063.5	2065.9	2065.9	2071.7	2076.3	2088.0	2092.6	2105.4	2114.7	2128.7	2145.0
22.5°	2032.1	2030.9	2030.9	2039.1	2042.6	2053.0	2057.7	2069.3	2079.8	2091.5	2106.6
25°	2000.7	1998.3	2003.0	2004.2	2006.5	2018.1	2021.6	2029.7	2040.2	2050.7	2065.9
27.5°	1954.1	1951.8	1953.0	1957.6	1961.1	1970.4	1972.7	1980.9	1989.0	1998.3	2011.2
30°	1864.5	1862.2	1861.0	1869.2	1872.7	1879.6	1883.1	1897.1	1899.4	1909.9	1919.2
32.5°	1745.8	1744.6	1747.0	1753.9	1757.4	1766.7	1771.4	1779.5	1785.3	1791.2	1800.5
35°	1613.1	1610.8	1613.1	1620.1	1620.1	1628.3	1631.8	1635.2	1634.1	1635.2	1632.9
37.5°	1489.8	1488.6	1489.8	1493.2	1489.8	1493.2	1489.8	1482.8	1470.0	1456.0	1442.0
40°	1385.0	1386.1	1379.2	1383.8	1371.0	1368.7	1355.9	1338.4	1312.8	1284.9	1245.3
42.5°	1273.3	1269.8	1265.1	1267.4	1257.0	1248.8	1227.9	1205.8	1173.2	1126.6	1078.9
45°	1135.9	1134.8	1132.4	1131.3	1124.3	1116.1	1098.7	1073.1	1037.0	989.3	932.2
47.5°	1002.1	998.6	998.6	999.7	991.6	990.4	976.5	954.4	922.9	876.4	817.0
50°	874.0	872.9	875.2	879.9	874.0	871.7	862.4	847.3	819.4	779.8	723.9
52.5°	758.8	757.7	760.0	765.8	763.5	765.8	756.5	744.9	726.2	687.8	639.0
55°	646.0	646.0	646.0	652.9	652.9	652.9	648.3	641.3	623.8	595.9	550.5
57.5°	528.4	529.5	536.5	537.7	536.5	538.9	537.7	530.7	519.1	499.3	464.4
60°	429.5	429.5	433.0	436.5	435.3	436.5	436.5	433.0	421.3	405.0	377.1
62.5°	339.8	343.3	341.0	343.3	348.0	343.3	341.0	338.7	330.5	320.1	296.8
65°	257.2	259.6	259.6	260.7	258.4	259.6	254.9	251.4	246.8	235.1	220.0
67.5°	195.5	195.5	195.5	195.5	194.4	193.2	192.1	188.6	180.4	175.8	159.4
70°	150.1	143.1	143.1	143.1	143.1	144.3	140.8	136.2	133.8	125.7	114.1
72.5°	100.1	102.4	100.1	100.1	97.8	98.9	94.3	91.9	89.6	85.0	78.0
75°	72.1	66.3	68.6	69.8	66.3	68.6	64.0	59.4	59.4	55.9	52.4
77.5°	46.6	45.4	46.6	47.7	46.6	45.4	43.1	40.7	40.7	39.6	36.1
80°	33.8	32.6	32.6	32.6	31.4	32.6	30.3	30.3	27.9	26.8	24.4
82.5°	22.1	22.1	20.9	22.1	20.9	22.1	18.6	18.6	18.6	17.4	15.1
85°	15.1	12.8	12.8	14.0	11.6	14.0	12.8	11.6	10.5	10.5	9.3
87.5°	7.0	8.1	7.0	8.1	7.0	7.0	8.1	7.0	7.0	4.6	4.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2371.9	2373.1	2373.1	2377.8	2380.1	2381.2	2381.2	2390.6	2387.1	2389.4	2391.7
5°	2338.2	2345.2	2347.5	2347.5	2360.3	2364.9	2369.6	2380.1	2381.2	2388.2	2396.4
7.5°	2305.6	2313.7	2318.4	2328.9	2337.0	2345.2	2359.1	2366.1	2373.1	2382.4	2392.9
10°	2274.2	2283.5	2292.8	2300.9	2313.7	2324.2	2333.5	2349.8	2358.0	2370.8	2384.7
12.5°	2243.9	2256.7	2264.9	2278.8	2292.8	2302.1	2316.1	2331.2	2344.0	2356.8	2373.1
15°	2217.2	2232.3	2241.6	2256.7	2271.9	2284.7	2299.8	2318.4	2327.7	2342.9	2358.0
17.5°	2188.0	2204.4	2216.0	2229.9	2248.6	2262.5	2275.4	2293.9	2305.6	2321.9	2339.4
20°	2157.8	2174.1	2188.0	2202.0	2220.7	2234.6	2249.7	2268.4	2281.2	2297.4	2311.4
22.5°	2121.7	2136.9	2152.0	2168.2	2186.9	2198.5	2216.0	2232.3	2246.2	2261.4	2275.4
25°	2075.2	2093.8	2105.4	2120.5	2135.7	2148.5	2167.1	2183.4	2195.0	2209.0	2221.8
27.5°	2020.5	2034.4	2043.7	2056.5	2071.7	2083.3	2097.2	2113.6	2125.2	2138.0	2147.3
30°	1927.3	1940.2	1948.3	1957.6	1972.7	1983.2	1994.9	2010.0	2018.1	2027.5	2035.6
32.5°	1805.1	1815.6	1820.3	1827.3	1837.7	1848.2	1857.5	1870.3	1873.8	1879.6	1879.6
35°	1628.3	1630.6	1629.4	1631.8	1636.4	1642.2	1650.3	1658.5	1663.1	1663.1	1659.7
37.5°	1421.1	1407.1	1392.0	1380.3	1376.8	1374.5	1379.2	1382.6	1387.3	1389.6	1383.8
40°	1205.8	1174.4	1140.6	1110.3	1089.4	1080.1	1076.6	1078.9	1078.9	1087.0	1087.0
42.5°	1020.7	971.8	921.8	876.4	846.1	822.9	812.4	812.4	813.5	819.4	822.9
45°	867.1	805.4	747.2	697.2	655.2	625.0	611.0	607.5	606.4	608.7	616.8
47.5°	749.5	685.5	625.0	563.3	519.1	488.8	476.0	471.3	466.7	471.3	472.5
50°	657.6	591.2	527.2	465.5	419.0	392.2	375.9	368.9	367.8	367.8	370.1
52.5°	573.8	512.1	448.1	385.3	336.3	310.8	295.6	292.1	287.5	292.1	292.1
55°	494.6	433.0	370.1	310.8	270.0	243.3	229.3	224.6	222.3	225.8	225.8
57.5°	408.5	356.1	298.0	244.4	203.7	185.1	174.6	168.8	167.6	169.9	167.6
60°	335.2	291.0	240.9	192.1	160.6	140.8	132.7	130.4	128.0	130.4	130.4
62.5°	265.3	228.1	187.4	150.1	123.4	109.4	100.1	100.1	98.9	98.9	100.1
65°	196.7	167.6	138.5	107.1	86.1	75.6	68.6	68.6	67.5	68.6	67.5
67.5°	143.1	123.4	100.1	78.0	61.7	55.9	51.2	47.7	50.1	47.7	46.6
70°	104.8	88.4	72.1	59.4	47.7	41.9	38.4	37.2	34.9	34.9	34.9
72.5°	69.8	59.4	48.9	38.4	31.4	25.6	24.4	22.1	19.8	20.9	23.3
75°	46.6	39.6	34.9	27.9	20.9	20.9	14.0	14.0	11.6	14.0	10.5
77.5°	32.6	26.8	20.9	17.4	14.0	12.8	9.3	9.3	8.1	8.1	8.1
80°	23.3	19.8	15.1	12.8	9.3	9.3	8.1	7.0	5.8	5.8	7.0
82.5°	14.0	10.5	10.5	9.3	5.8	4.6	3.5	4.6	2.3	2.3	2.3
85°	8.1	7.0	5.8	3.5	2.3	2.3	1.1	0.0	1.1	1.1	0.0
87.5°	4.6	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2397.6	2396.4	2398.7	2398.7	2405.7	2404.5	2408.0	2408.0	2405.7	2406.9	2411.5
5°	2405.7	2409.2	2416.2	2422.0	2432.4	2437.1	2442.9	2448.8	2449.9	2453.4	2456.9
7.5°	2405.7	2417.4	2425.5	2435.9	2449.9	2458.1	2470.9	2481.4	2486.0	2491.8	2498.8
10°	2401.0	2412.7	2427.8	2439.4	2456.9	2469.7	2482.5	2498.8	2505.8	2515.1	2524.4
12.5°	2391.7	2404.5	2420.8	2435.9	2455.7	2467.4	2483.7	2498.8	2509.3	2522.1	2532.6
15°	2377.8	2392.9	2408.0	2423.1	2444.1	2458.1	2473.2	2490.6	2501.1	2515.1	2524.4
17.5°	2355.6	2371.9	2385.9	2399.9	2419.7	2435.9	2449.9	2466.2	2476.7	2488.3	2501.1
20°	2328.9	2344.0	2359.1	2370.8	2390.6	2404.5	2419.7	2434.8	2442.9	2445.3	2465.1
22.5°	2295.1	2305.6	2317.2	2335.9	2347.5	2360.3	2374.3	2388.2	2396.4	2409.2	2416.2
25°	2239.2	2249.7	2262.5	2270.7	2284.7	2295.1	2309.1	2324.2	2328.9	2338.2	2345.2
27.5°	2161.3	2167.1	2172.9	2179.9	2188.0	2193.9	2202.0	2209.0	2213.7	2218.3	2223.0
30°	2037.9	2037.9	2037.9	2033.2	2036.7	2040.2	2041.4	2040.2	2040.2	2039.1	2039.1
32.5°	1875.0	1865.7	1855.2	1845.9	1842.4	1837.7	1835.4	1831.9	1826.1	1822.6	1823.8
35°	1655.0	1634.1	1621.3	1609.6	1600.3	1593.3	1589.8	1586.3	1585.2	1580.5	1575.8
37.5°	1380.3	1365.2	1355.9	1348.9	1340.8	1333.8	1334.9	1336.1	1339.6	1337.3	1338.4
40°	1089.4	1085.9	1089.4	1081.2	1078.9	1081.2	1087.0	1095.2	1099.9	1104.5	1112.6
42.5°	828.7	834.5	842.7	842.7	846.1	850.8	857.7	870.6	877.5	885.7	895.0
45°	623.8	630.8	641.3	644.8	647.1	652.9	661.1	671.5	676.2	683.2	691.3
47.5°	480.7	485.3	491.1	497.0	502.8	505.1	513.3	513.3	519.1	523.7	526.0
50°	374.8	379.4	384.1	387.6	389.9	393.4	395.7	399.2	400.3	402.7	403.8
52.5°	293.3	299.1	299.1	301.4	304.9	308.4	307.3	308.4	309.6	309.6	313.1
55°	229.3	229.3	232.8	232.8	235.1	233.9	235.1	235.1	235.1	235.1	236.3
57.5°	171.1	172.3	175.8	173.4	172.3	174.6	172.3	174.6	173.4	175.8	172.3
60°	131.5	131.5	132.7	132.7	133.8	133.8	133.8	132.7	132.7	131.5	131.5
62.5°	98.9	100.1	101.3	100.1	100.1	100.1	98.9	98.9	97.8	96.6	96.6
65°	66.3	65.2	67.5	65.2	66.3	66.3	65.2	66.3	62.9	64.0	62.9
67.5°	47.7	46.6	45.4	46.6	45.4	44.2	44.2	45.4	46.6	43.1	43.1
70°	31.4	32.6	31.4	32.6	33.8	33.8	32.6	31.4	32.6	30.3	31.4
72.5°	19.8	19.8	19.8	19.8	19.8	20.9	20.9	20.9	18.6	18.6	17.4
75°	9.3	12.8	10.5	9.3	12.8	12.8	11.6	11.6	10.5	10.5	10.5
77.5°	9.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.8	7.0	5.8
80°	4.6	4.6	4.6	3.5	4.6	4.6	5.8	4.6	4.6	3.5	5.8
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: P246016

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2410.4	2409.2	2410.4	2411.5	2410.4	2409.2	2410.4	2411.5	2406.9	2405.7	2408.0
5°	2461.6	2461.6	2463.9	2465.1	2463.9	2461.6	2461.6	2456.9	2453.4	2449.9	2448.8
7.5°	2505.8	2508.1	2510.4	2511.6	2510.4	2508.1	2505.8	2498.8	2491.8	2486.0	2481.4
10°	2532.6	2536.1	2540.7	2543.0	2540.7	2536.1	2532.6	2524.4	2515.1	2505.8	2498.8
12.5°	2544.2	2547.7	2553.5	2552.3	2553.5	2547.7	2544.2	2532.6	2522.1	2509.3	2498.8
15°	2536.1	2540.7	2546.5	2548.9	2546.5	2540.7	2536.1	2524.4	2515.1	2501.1	2490.6
17.5°	2510.4	2517.4	2520.9	2524.4	2520.9	2517.4	2510.4	2501.1	2488.3	2476.7	2466.2
20°	2475.5	2480.2	2484.9	2486.0	2484.9	2480.2	2475.5	2465.1	2445.3	2442.9	2434.8
22.5°	2425.5	2429.0	2439.4	2435.9	2439.4	2429.0	2425.5	2416.2	2409.2	2396.4	2388.2
25°	2353.3	2356.8	2358.0	2359.1	2358.0	2356.8	2353.3	2345.2	2338.2	2328.9	2324.2
27.5°	2228.8	2228.8	2231.1	2232.3	2231.1	2228.8	2228.8	2223.0	2218.3	2213.7	2209.0
30°	2040.2	2040.2	2040.2	2046.1	2040.2	2040.2	2040.2	2039.1	2039.1	2040.2	2040.2
32.5°	1822.6	1820.3	1818.0	1820.3	1818.0	1820.3	1822.6	1823.8	1822.6	1826.1	1831.9
35°	1575.8	1574.7	1578.2	1573.5	1578.2	1574.7	1575.8	1575.8	1580.5	1585.2	1586.3
37.5°	1339.6	1337.3	1341.9	1337.3	1341.9	1337.3	1339.6	1338.4	1337.3	1339.6	1336.1
40°	1115.0	1117.3	1117.3	1126.6	1117.3	1117.3	1115.0	1112.6	1104.5	1099.9	1095.2
42.5°	899.7	906.7	904.3	911.3	904.3	906.7	899.7	895.0	885.7	877.5	870.6
45°	696.0	700.7	700.7	703.0	700.7	700.7	696.0	691.3	683.2	676.2	671.5
47.5°	534.2	534.2	534.2	535.4	534.2	534.2	534.2	526.0	523.7	519.1	513.3
50°	406.2	407.3	408.5	409.7	408.5	407.3	406.2	403.8	402.7	400.3	399.2
52.5°	311.9	313.1	310.8	313.1	310.8	313.1	311.9	313.1	309.6	309.6	308.4
55°	236.3	235.1	236.3	237.4	236.3	235.1	236.3	236.3	235.1	235.1	235.1
57.5°	173.4	171.1	171.1	171.1	171.1	171.1	173.4	172.3	175.8	173.4	174.6
60°	129.2	130.4	130.4	131.5	130.4	130.4	129.2	131.5	131.5	132.7	132.7
62.5°	95.4	98.9	96.6	98.9	96.6	98.9	95.4	96.6	96.6	97.8	98.9
65°	61.7	61.7	61.7	62.9	61.7	61.7	61.7	62.9	64.0	62.9	66.3
67.5°	41.9	43.1	45.4	44.2	45.4	43.1	41.9	43.1	43.1	46.6	45.4
70°	33.8	30.3	30.3	33.8	30.3	30.3	33.8	31.4	30.3	32.6	31.4
72.5°	19.8	17.4	19.8	19.8	19.8	17.4	19.8	17.4	18.6	18.6	20.9
75°	10.5	9.3	8.1	11.6	8.1	9.3	10.5	10.5	10.5	10.5	11.6
77.5°	7.0	5.8	8.1	8.1	8.1	5.8	7.0	5.8	7.0	5.8	7.0
80°	3.5	4.6	3.5	5.8	3.5	4.6	3.5	5.8	3.5	4.6	4.6
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: P246016

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2408.0	2404.5	2405.7	2398.7	2398.7	2396.4	2397.6	2391.7	2389.4	2387.1	2390.6
5°	2442.9	2437.1	2432.4	2422.0	2416.2	2409.2	2405.7	2396.4	2388.2	2381.2	2380.1
7.5°	2470.9	2458.1	2449.9	2435.9	2425.5	2417.4	2405.7	2392.9	2382.4	2373.1	2366.1
10°	2482.5	2469.7	2456.9	2439.4	2427.8	2412.7	2401.0	2384.7	2370.8	2358.0	2349.8
12.5°	2483.7	2467.4	2455.7	2435.9	2420.8	2404.5	2391.7	2373.1	2356.8	2344.0	2331.2
15°	2473.2	2458.1	2444.1	2423.1	2408.0	2392.9	2377.8	2358.0	2342.9	2327.7	2318.4
17.5°	2449.9	2435.9	2419.7	2399.9	2385.9	2371.9	2355.6	2339.4	2321.9	2305.6	2293.9
20°	2419.7	2404.5	2390.6	2370.8	2359.1	2344.0	2328.9	2311.4	2297.4	2281.2	2268.4
22.5°	2374.3	2360.3	2347.5	2335.9	2317.2	2305.6	2295.1	2275.4	2261.4	2246.2	2232.3
25°	2309.1	2295.1	2284.7	2270.7	2262.5	2249.7	2239.2	2221.8	2209.0	2195.0	2183.4
27.5°	2202.0	2193.9	2188.0	2179.9	2172.9	2167.1	2161.3	2147.3	2138.0	2125.2	2113.6
30°	2041.4	2040.2	2036.7	2033.2	2037.9	2037.9	2037.9	2035.6	2027.5	2018.1	2010.0
32.5°	1835.4	1837.7	1842.4	1845.9	1855.2	1865.7	1875.0	1879.6	1879.6	1873.8	1870.3
35°	1589.8	1593.3	1600.3	1609.6	1621.3	1634.1	1655.0	1659.7	1663.1	1663.1	1658.5
37.5°	1334.9	1333.8	1340.8	1348.9	1355.9	1365.2	1380.3	1383.8	1389.6	1387.3	1382.6
40°	1087.0	1081.2	1078.9	1081.2	1089.4	1085.9	1089.4	1087.0	1087.0	1078.9	1078.9
42.5°	857.7	850.8	846.1	842.7	842.7	834.5	828.7	822.9	819.4	813.5	812.4
45°	661.1	652.9	647.1	644.8	641.3	630.8	623.8	616.8	608.7	606.4	607.5
47.5°	513.3	505.1	502.8	497.0	491.1	485.3	480.7	472.5	471.3	466.7	471.3
50°	395.7	393.4	389.9	387.6	384.1	379.4	374.8	370.1	367.8	367.8	368.9
52.5°	307.3	308.4	304.9	301.4	299.1	299.1	293.3	292.1	292.1	287.5	292.1
55°	235.1	233.9	235.1	232.8	232.8	229.3	229.3	225.8	225.8	222.3	224.6
57.5°	172.3	174.6	172.3	173.4	175.8	172.3	171.1	167.6	169.9	167.6	168.8
60°	133.8	133.8	133.8	132.7	132.7	131.5	131.5	130.4	130.4	128.0	130.4
62.5°	98.9	100.1	100.1	100.1	101.3	100.1	98.9	100.1	98.9	98.9	100.1
65°	65.2	66.3	66.3	65.2	67.5	65.2	66.3	67.5	68.6	67.5	68.6
67.5°	44.2	44.2	45.4	46.6	45.4	46.6	47.7	46.6	47.7	50.1	47.7
70°	32.6	33.8	33.8	32.6	31.4	32.6	31.4	34.9	34.9	34.9	37.2
72.5°	20.9	20.9	19.8	19.8	19.8	19.8	19.8	23.3	20.9	19.8	22.1
75°	11.6	12.8	12.8	9.3	10.5	12.8	9.3	10.5	14.0	11.6	14.0
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	9.3	8.1	8.1	8.1	9.3
80°	5.8	4.6	4.6	3.5	4.6	4.6	4.6	7.0	5.8	5.8	7.0
82.5°	2.3	2.3	1.1	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6
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: P246016

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2381.2	2381.2	2380.1	2377.8	2373.1	2373.1	2371.9	2368.4	2366.1	2364.9	2364.9
5°	2369.6	2364.9	2360.3	2347.5	2347.5	2345.2	2338.2	2333.5	2331.2	2325.4	2323.1
7.5°	2359.1	2345.2	2337.0	2328.9	2318.4	2313.7	2305.6	2302.1	2293.9	2288.2	2284.7
10°	2333.5	2324.2	2313.7	2300.9	2292.8	2283.5	2274.2	2267.2	2256.7	2250.9	2246.2
12.5°	2316.1	2302.1	2292.8	2278.8	2264.9	2256.7	2243.9	2235.8	2225.3	2213.7	2206.7
15°	2299.8	2284.7	2271.9	2256.7	2241.6	2232.3	2217.2	2207.9	2192.7	2181.1	2172.9
17.5°	2275.4	2262.5	2248.6	2229.9	2216.0	2204.4	2188.0	2176.4	2162.4	2147.3	2139.2
20°	2249.7	2234.6	2220.7	2202.0	2188.0	2174.1	2157.8	2145.0	2128.7	2114.7	2105.4
22.5°	2216.0	2198.5	2186.9	2168.2	2152.0	2136.9	2121.7	2106.6	2091.5	2079.8	2069.3
25°	2167.1	2148.5	2135.7	2120.5	2105.4	2093.8	2075.2	2065.9	2050.7	2040.2	2029.7
27.5°	2097.2	2083.3	2071.7	2056.5	2043.7	2034.4	2020.5	2011.2	1998.3	1989.0	1980.9
30°	1994.9	1983.2	1972.7	1957.6	1948.3	1940.2	1927.3	1919.2	1909.9	1899.4	1897.1
32.5°	1857.5	1848.2	1837.7	1827.3	1820.3	1815.6	1805.1	1800.5	1791.2	1785.3	1779.5
35°	1650.3	1642.2	1636.4	1631.8	1629.4	1630.6	1628.3	1632.9	1635.2	1634.1	1635.2
37.5°	1379.2	1374.5	1376.8	1380.3	1392.0	1407.1	1421.1	1442.0	1456.0	1470.0	1482.8
40°	1076.6	1080.1	1089.4	1110.3	1140.6	1174.4	1205.8	1245.3	1284.9	1312.8	1338.4
42.5°	812.4	822.9	846.1	876.4	921.8	971.8	1020.7	1078.9	1126.6	1173.2	1205.8
45°	611.0	625.0	655.2	697.2	747.2	805.4	867.1	932.2	989.3	1037.0	1073.1
47.5°	476.0	488.8	519.1	563.3	625.0	685.5	749.5	817.0	876.4	922.9	954.4
50°	375.9	392.2	419.0	465.5	527.2	591.2	657.6	723.9	779.8	819.4	847.3
52.5°	295.6	310.8	336.3	385.3	448.1	512.1	573.8	639.0	687.8	726.2	744.9
55°	229.3	243.3	270.0	310.8	370.1	433.0	494.6	550.5	595.9	623.8	641.3
57.5°	174.6	185.1	203.7	244.4	298.0	356.1	408.5	464.4	499.3	519.1	530.7
60°	132.7	140.8	160.6	192.1	240.9	291.0	335.2	377.1	405.0	421.3	433.0
62.5°	100.1	109.4	123.4	150.1	187.4	228.1	265.3	296.8	320.1	330.5	338.7
65°	68.6	75.6	86.1	107.1	138.5	167.6	196.7	220.0	235.1	246.8	251.4
67.5°	51.2	55.9	61.7	78.0	100.1	123.4	143.1	159.4	175.8	180.4	188.6
70°	38.4	41.9	47.7	59.4	72.1	88.4	104.8	114.1	125.7	133.8	136.2
72.5°	24.4	25.6	31.4	38.4	48.9	59.4	69.8	78.0	85.0	89.6	91.9
75°	14.0	20.9	20.9	27.9	34.9	39.6	46.6	52.4	55.9	59.4	59.4
77.5°	9.3	12.8	14.0	17.4	20.9	26.8	32.6	36.1	39.6	40.7	40.7
80°	8.1	9.3	9.3	12.8	15.1	19.8	23.3	24.4	26.8	27.9	30.3
82.5°	3.5	4.6	5.8	9.3	10.5	10.5	14.0	15.1	17.4	18.6	18.6
85°	1.1	2.3	2.3	3.5	5.8	7.0	8.1	9.3	10.5	10.5	11.6
87.5°	1.1	1.1	0.0	1.1	2.3	2.3	4.6	4.6	4.6	7.0	7.0
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: P246016

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2362.6	2363.8	2359.1	2358.0	2355.6	2356.8	2359.1
5°	2319.6	2320.7	2316.1	2311.4	2311.4	2310.2	2311.4
7.5°	2278.8	2280.0	2273.0	2270.7	2266.0	2267.2	2267.2
10°	2238.1	2238.1	2227.6	2226.4	2223.0	2221.8	2221.8
12.5°	2198.5	2195.0	2186.9	2182.2	2184.6	2177.6	2177.6
15°	2163.6	2157.8	2147.3	2143.8	2138.0	2135.7	2135.7
17.5°	2127.5	2122.9	2113.6	2106.6	2099.6	2098.4	2099.6
20°	2092.6	2088.0	2076.3	2071.7	2065.9	2065.9	2063.5
22.5°	2057.7	2053.0	2042.6	2039.1	2030.9	2030.9	2032.1
25°	2021.6	2018.1	2006.5	2004.2	2003.0	1998.3	2000.7
27.5°	1972.7	1970.4	1961.1	1957.6	1953.0	1951.8	1954.1
30°	1883.1	1879.6	1872.7	1869.2	1861.0	1862.2	1864.5
32.5°	1771.4	1766.7	1757.4	1753.9	1747.0	1744.6	1745.8
35°	1631.8	1628.3	1620.1	1620.1	1613.1	1610.8	1613.1
37.5°	1489.8	1493.2	1489.8	1493.2	1489.8	1488.6	1489.8
40°	1355.9	1368.7	1371.0	1383.8	1379.2	1386.1	1385.0
42.5°	1227.9	1248.8	1257.0	1267.4	1265.1	1269.8	1273.3
45°	1098.7	1116.1	1124.3	1131.3	1132.4	1134.8	1135.9
47.5°	976.5	990.4	991.6	999.7	998.6	998.6	1002.1
50°	862.4	871.7	874.0	879.9	875.2	872.9	874.0
52.5°	756.5	765.8	763.5	765.8	760.0	757.7	758.8
55°	648.3	652.9	652.9	652.9	646.0	646.0	646.0
57.5°	537.7	538.9	536.5	537.7	536.5	529.5	528.4
60°	436.5	436.5	435.3	436.5	433.0	429.5	429.5
62.5°	341.0	343.3	348.0	343.3	341.0	343.3	339.8
65°	254.9	259.6	258.4	260.7	259.6	259.6	257.2
67.5°	192.1	193.2	194.4	195.5	195.5	195.5	195.5
70°	140.8	144.3	143.1	143.1	143.1	143.1	150.1
72.5°	94.3	98.9	97.8	100.1	100.1	102.4	100.1
75°	64.0	68.6	66.3	69.8	68.6	66.3	72.1
77.5°	43.1	45.4	46.6	47.7	46.6	45.4	46.6
80°	30.3	32.6	31.4	32.6	32.6	32.6	33.8
82.5°	18.6	22.1	20.9	22.1	20.9	22.1	22.1
85°	12.8	14.0	11.6	14.0	12.8	12.8	15.1
87.5°	8.1	7.0	7.0	8.1	7.0	8.1	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)