

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: P244996

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244996
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 EC8B40935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3720.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

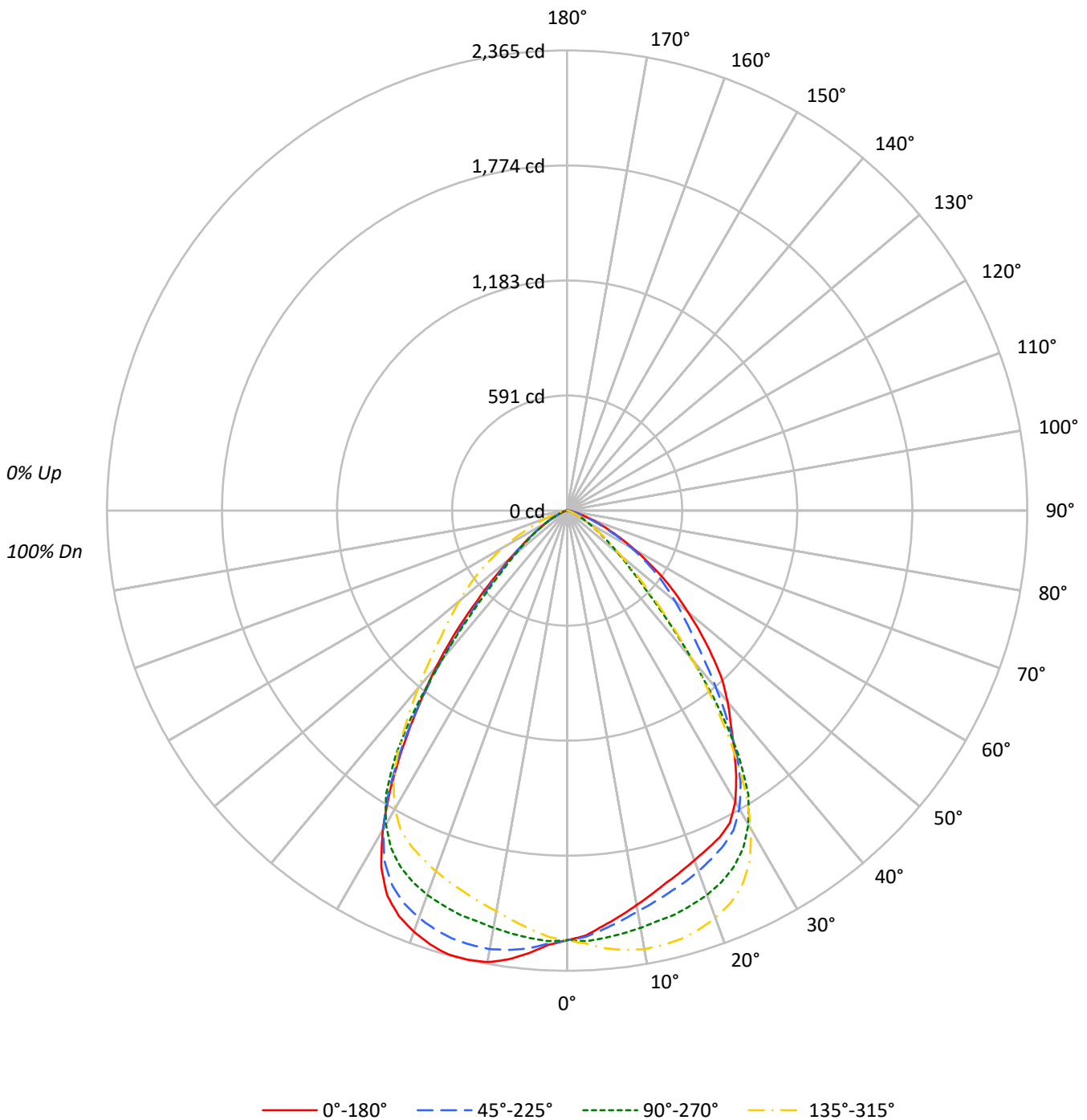
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	68099	68099	68099	68099
5°	66291	68260	70696	68260
10°	64459	68173	73777	68173
15°	63171	68576	75392	68576
20°	62740	68968	75584	68968
25°	63070	68831	74370	68831
30°	61511	66310	67503	66310
35°	56263	57844	54881	57844
40°	51654	40238	42021	40238
45°	45899	24548	28403	24548
50°	38848	16397	18210	16397
55°	32176	11188	11828	11188
60°	24540	7450	7512	7450
65°	17388	4641	4247	4641
70°	12541	3110	2822	3110
75°	7959	1549	1287	1549
80°	5558	1154	959	1154
85°	4953	0	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	5.7
10°-20°	608.7	16.4
20°-30°	921.7	24.8
30°-40°	923.8	24.8
40°-50°	580.1	15.6
50°-60°	309.1	8.3
60°-70°	127.1	3.4
70°-80°	33.6	0.9
80°-90°	5.7	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°	1740.6	46.8
0°-40°	2664.4	71.6
0°-60°	3553.6	95.5
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2208	2208	2208	2208	2208	
5°	2142	2205	2284	2205	2142	202
15°	1979	2148	2362	2148	1979	560
25°	1854	2023	2186	2023	1854	850
35°	1495	1537	1458	1537	1495	936
45°	1052	563	651	563	1052	809
55°	598	208	220	208	598	534
65°	238	64	58	64	238	247
75°	67	13	11	13	67	76
85°	14	0	1	0	14	15
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°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2185.8	2183.6	2182.6	2184.7	2185.8	2190.1	2189.0	2191.2	2191.2	2192.3	2194.4
5°	2141.6	2140.5	2141.6	2141.6	2145.9	2150.2	2149.1	2152.4	2154.5	2159.9	2162.1
7.5°	2100.6	2100.6	2099.5	2103.8	2106.0	2112.5	2111.4	2116.8	2120.0	2125.4	2132.9
10°	2058.6	2058.6	2059.6	2062.9	2064.0	2073.6	2073.6	2081.2	2085.5	2090.9	2100.6
12.5°	2017.6	2017.6	2024.1	2021.9	2026.2	2033.7	2037.0	2044.5	2051.0	2061.8	2071.5
15°	1978.8	1978.8	1980.9	1986.3	1989.5	1999.3	2004.6	2013.3	2020.8	2031.6	2045.6
17.5°	1945.3	1944.3	1945.3	1951.8	1958.3	1966.9	1971.2	1982.0	1989.5	2003.6	2016.5
20°	1911.9	1914.1	1914.1	1919.5	1923.8	1934.5	1938.8	1950.7	1959.4	1972.3	1987.4
22.5°	1882.8	1881.7	1881.7	1889.3	1892.5	1902.2	1906.5	1917.3	1927.0	1937.8	1951.8
25°	1853.7	1851.5	1855.8	1856.9	1859.0	1869.8	1873.1	1880.6	1890.3	1900.1	1914.1
27.5°	1810.5	1808.4	1809.5	1813.8	1817.0	1825.6	1827.8	1835.3	1842.9	1851.5	1863.4
30°	1727.5	1725.4	1724.3	1731.8	1735.1	1741.5	1744.8	1757.7	1759.8	1769.6	1778.2
32.5°	1617.5	1616.4	1618.6	1625.0	1628.3	1636.9	1641.2	1648.8	1654.2	1659.6	1668.2
35°	1494.6	1492.4	1494.6	1501.1	1501.1	1508.6	1511.9	1515.1	1514.0	1515.1	1512.9
37.5°	1380.3	1379.2	1380.3	1383.5	1380.3	1383.5	1380.3	1373.8	1362.0	1349.0	1336.0
40°	1283.2	1284.3	1277.9	1282.2	1270.3	1268.1	1256.3	1240.1	1216.4	1190.5	1153.8
42.5°	1179.7	1176.5	1172.2	1174.3	1164.6	1157.0	1137.6	1117.2	1087.0	1043.9	999.6
45°	1052.5	1051.4	1049.2	1048.2	1041.7	1034.1	1017.9	994.2	960.8	916.6	863.7
47.5°	928.5	925.2	925.2	926.3	918.7	917.7	904.7	884.2	855.1	812.0	757.0
50°	809.8	808.7	810.9	815.2	809.8	807.7	799.1	785.0	759.2	722.5	670.7
52.5°	703.1	702.0	704.2	709.5	707.4	709.5	700.9	690.2	672.9	637.3	592.0
55°	598.5	598.5	598.5	604.9	604.9	604.9	600.6	594.2	578.0	552.1	510.1
57.5°	489.6	490.6	497.1	498.2	497.1	499.3	498.2	491.7	481.0	462.6	430.3
60°	397.9	397.9	401.2	404.4	403.3	404.4	404.4	401.2	390.4	375.3	349.4
62.5°	314.9	318.1	315.9	318.1	322.4	318.1	315.9	313.8	306.3	296.5	275.0
65°	238.3	240.5	240.5	241.5	239.4	240.5	236.2	232.9	228.6	217.8	203.8
67.5°	181.2	181.2	181.2	181.2	180.1	179.0	177.9	174.7	167.2	162.9	147.7
70°	139.1	132.6	132.6	132.6	132.6	133.7	130.5	126.2	124.0	116.5	105.7
72.5°	92.7	94.9	92.7	92.7	90.6	91.7	87.4	85.2	83.0	78.7	72.3
75°	66.8	61.5	63.6	64.7	61.5	63.6	59.3	55.0	55.0	51.8	48.5
77.5°	43.1	42.1	43.1	44.2	43.1	42.1	39.9	37.7	37.7	36.7	33.4
80°	31.3	30.2	30.2	30.2	29.1	30.2	28.1	28.1	25.9	24.8	22.6
82.5°	20.5	20.5	19.4	20.5	19.4	20.5	17.3	17.3	17.3	16.2	14.0
85°	14.0	11.9	11.9	13.0	10.8	13.0	11.9	10.8	9.7	9.7	8.6
87.5°	6.5	7.5	6.5	7.5	6.5	6.5	7.5	6.5	6.5	4.3	4.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2197.7	2198.7	2198.7	2203.1	2205.2	2206.3	2206.3	2214.9	2211.7	2213.9	2216.0
5°	2166.4	2172.8	2175.0	2175.0	2186.9	2191.2	2195.5	2205.2	2206.3	2212.8	2220.3
7.5°	2136.2	2143.7	2148.1	2157.8	2165.3	2172.8	2185.8	2192.3	2198.7	2207.4	2217.1
10°	2107.1	2115.7	2124.3	2131.9	2143.7	2153.5	2162.1	2177.2	2184.7	2196.6	2209.5
12.5°	2079.1	2090.9	2098.5	2111.4	2124.3	2132.9	2145.9	2159.9	2171.8	2183.6	2198.7
15°	2054.3	2068.3	2076.9	2090.9	2104.9	2116.8	2130.8	2148.1	2156.7	2170.7	2184.7
17.5°	2027.3	2042.4	2053.2	2066.1	2083.4	2096.3	2108.2	2125.4	2136.2	2151.3	2167.5
20°	1999.3	2014.3	2027.3	2040.2	2057.5	2070.4	2084.4	2101.7	2113.5	2128.6	2141.6
22.5°	1965.8	1979.9	1993.8	2008.9	2026.2	2037.0	2053.2	2068.3	2081.2	2095.2	2108.2
25°	1922.7	1940.0	1950.7	1964.7	1978.8	1990.6	2007.9	2023.0	2033.7	2046.7	2058.6
27.5°	1872.0	1885.0	1893.6	1905.4	1919.5	1930.2	1943.2	1958.3	1969.1	1980.9	1989.5
30°	1785.7	1797.6	1805.2	1813.8	1827.8	1837.5	1848.3	1862.3	1869.8	1878.5	1886.0
32.5°	1672.5	1682.2	1686.5	1693.0	1702.7	1712.4	1721.0	1732.9	1736.1	1741.5	1741.5
35°	1508.6	1510.8	1509.7	1511.9	1516.2	1521.5	1529.1	1536.6	1540.9	1540.9	1537.7
37.5°	1316.7	1303.7	1289.7	1278.9	1275.7	1273.5	1277.9	1281.1	1285.4	1287.5	1282.2
40°	1117.2	1088.1	1056.8	1028.7	1009.3	1000.7	997.5	999.6	999.6	1007.2	1007.2
42.5°	945.7	900.4	854.1	812.0	783.9	762.4	752.7	752.7	753.8	759.2	762.4
45°	803.4	746.2	692.3	645.9	607.1	579.1	566.1	562.9	561.8	564.0	571.5
47.5°	694.5	635.2	579.1	521.9	481.0	452.9	441.1	436.7	432.4	436.7	437.8
50°	609.3	547.8	488.5	431.3	388.2	363.4	348.3	341.8	340.7	340.7	342.9
52.5°	531.6	474.5	415.2	356.9	311.6	287.9	273.9	270.7	266.4	270.7	270.7
55°	458.3	401.2	342.9	287.9	250.2	225.4	212.4	208.1	205.9	209.2	209.2
57.5°	378.5	330.0	276.1	226.5	188.7	171.5	161.7	156.4	155.3	157.4	155.3
60°	310.6	269.6	223.2	177.9	148.8	130.5	122.9	120.8	118.6	120.8	120.8
62.5°	245.9	211.4	173.6	139.1	114.3	101.4	92.7	92.7	91.7	91.7	92.7
65°	182.2	155.3	128.3	99.2	79.8	70.1	63.6	63.6	62.5	63.6	62.5
67.5°	132.6	114.3	92.7	72.3	57.2	51.8	47.4	44.2	46.4	44.2	43.1
70°	97.1	81.9	66.8	55.0	44.2	38.8	35.6	34.5	32.4	32.4	32.4
72.5°	64.7	55.0	45.3	35.6	29.1	23.7	22.6	20.5	18.3	19.4	21.6
75°	43.1	36.7	32.4	25.9	19.4	19.4	13.0	13.0	10.8	13.0	9.7
77.5°	30.2	24.8	19.4	16.2	13.0	11.9	8.6	8.6	7.5	7.5	7.5
80°	21.6	18.3	14.0	11.9	8.6	8.6	7.5	6.5	5.4	5.4	6.5
82.5°	13.0	9.7	9.7	8.6	5.4	4.3	3.2	4.3	2.2	2.2	2.2
85°	7.5	6.5	5.4	3.2	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
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°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2221.4	2220.3	2222.5	2222.5	2229.0	2227.8	2231.1	2231.1	2229.0	2230.0	2234.3
5°	2229.0	2232.2	2238.6	2244.0	2253.7	2258.1	2263.4	2268.9	2269.9	2273.2	2276.4
7.5°	2229.0	2239.7	2247.3	2257.0	2269.9	2277.5	2289.3	2299.0	2303.3	2308.7	2315.2
10°	2224.6	2235.4	2249.4	2260.2	2276.4	2288.3	2300.1	2315.2	2321.7	2330.3	2338.9
12.5°	2216.0	2227.8	2242.9	2257.0	2275.3	2286.1	2301.2	2315.2	2324.9	2336.8	2346.5
15°	2203.1	2217.1	2231.1	2245.1	2264.5	2277.5	2291.5	2307.6	2317.4	2330.3	2338.9
17.5°	2182.6	2197.7	2210.6	2223.5	2241.9	2257.0	2269.9	2285.0	2294.7	2305.5	2317.4
20°	2157.8	2171.8	2185.8	2196.6	2214.9	2227.8	2241.9	2255.9	2263.4	2265.6	2283.9
22.5°	2126.5	2136.2	2147.0	2164.2	2175.0	2186.9	2199.8	2212.8	2220.3	2232.2	2238.6
25°	2074.7	2084.4	2096.3	2103.8	2116.8	2126.5	2139.4	2153.5	2157.8	2166.4	2172.8
27.5°	2002.5	2007.9	2013.3	2019.7	2027.3	2032.7	2040.2	2046.7	2051.0	2055.3	2059.6
30°	1888.2	1888.2	1888.2	1883.9	1887.1	1890.3	1891.4	1890.3	1890.3	1889.3	1889.3
32.5°	1737.2	1728.6	1718.9	1710.3	1707.0	1702.7	1700.5	1697.3	1691.9	1688.7	1689.8
35°	1533.4	1514.0	1502.1	1491.4	1482.7	1476.3	1473.0	1469.8	1468.7	1464.4	1460.1
37.5°	1278.9	1264.9	1256.3	1249.8	1242.3	1235.8	1236.8	1238.0	1241.2	1239.0	1240.1
40°	1009.3	1006.1	1009.3	1001.8	999.6	1001.8	1007.2	1014.7	1019.0	1023.4	1030.9
42.5°	767.8	773.2	780.7	780.7	783.9	788.3	794.7	806.6	813.1	820.6	829.3
45°	578.0	584.5	594.2	597.4	599.6	604.9	612.5	622.2	626.5	633.0	640.5
47.5°	445.4	449.7	455.0	460.5	465.8	468.0	475.5	475.5	481.0	485.3	487.4
50°	347.2	351.5	355.8	359.1	361.3	364.5	366.6	369.9	370.9	373.1	374.2
52.5°	271.7	277.1	277.1	279.3	282.5	285.8	284.7	285.8	286.8	286.8	290.1
55°	212.4	212.4	215.7	215.7	217.8	216.7	217.8	217.8	217.8	217.8	218.9
57.5°	158.5	159.6	162.9	160.7	159.6	161.7	159.6	161.7	160.7	162.9	159.6
60°	121.8	121.8	122.9	122.9	124.0	124.0	124.0	122.9	122.9	121.8	121.8
62.5°	91.7	92.7	93.8	92.7	92.7	92.7	91.7	91.7	90.6	89.5	89.5
65°	61.5	60.4	62.5	60.4	61.5	61.5	60.4	61.5	58.2	59.3	58.2
67.5°	44.2	43.1	42.1	43.1	42.1	41.0	41.0	42.1	43.1	39.9	39.9
70°	29.1	30.2	29.1	30.2	31.3	31.3	30.2	29.1	30.2	28.1	29.1
72.5°	18.3	18.3	18.3	18.3	18.3	19.4	19.4	19.4	17.3	17.3	16.2
75°	8.6	11.9	9.7	8.6	11.9	11.9	10.8	10.8	9.7	9.7	9.7
77.5°	8.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.4	6.5	5.4
80°	4.3	4.3	4.3	3.2	4.3	4.3	5.4	4.3	4.3	3.2	5.4
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	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: P244996

CATALOG NUMBER: LSR8B40D010 EC8B40935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2233.3	2232.2	2233.3	2234.3	2233.3	2232.2	2233.3	2234.3	2230.0	2229.0	2231.1
5°	2280.7	2280.7	2282.8	2283.9	2282.8	2280.7	2280.7	2276.4	2273.2	2269.9	2268.9
7.5°	2321.7	2323.8	2326.0	2327.0	2326.0	2323.8	2321.7	2315.2	2308.7	2303.3	2299.0
10°	2346.5	2349.7	2354.0	2356.2	2354.0	2349.7	2346.5	2338.9	2330.3	2321.7	2315.2
12.5°	2357.3	2360.5	2365.9	2364.8	2365.9	2360.5	2357.3	2346.5	2336.8	2324.9	2315.2
15°	2349.7	2354.0	2359.4	2361.6	2359.4	2354.0	2349.7	2338.9	2330.3	2317.4	2307.6
17.5°	2326.0	2332.5	2335.7	2338.9	2335.7	2332.5	2326.0	2317.4	2305.5	2294.7	2285.0
20°	2293.6	2298.0	2302.3	2303.3	2302.3	2298.0	2293.6	2283.9	2265.6	2263.4	2255.9
22.5°	2247.3	2250.5	2260.2	2257.0	2260.2	2250.5	2247.3	2238.6	2232.2	2220.3	2212.8
25°	2180.4	2183.6	2184.7	2185.8	2184.7	2183.6	2180.4	2172.8	2166.4	2157.8	2153.5
27.5°	2065.0	2065.0	2067.2	2068.3	2067.2	2065.0	2065.0	2059.6	2055.3	2051.0	2046.7
30°	1890.3	1890.3	1890.3	1895.8	1890.3	1890.3	1890.3	1889.3	1889.3	1890.3	1890.3
32.5°	1688.7	1686.5	1684.4	1686.5	1684.4	1686.5	1688.7	1689.8	1688.7	1691.9	1697.3
35°	1460.1	1459.0	1462.2	1457.9	1462.2	1459.0	1460.1	1460.1	1464.4	1468.7	1469.8
37.5°	1241.2	1239.0	1243.3	1239.0	1243.3	1239.0	1241.2	1240.1	1239.0	1241.2	1238.0
40°	1033.1	1035.2	1035.2	1043.9	1035.2	1035.2	1033.1	1030.9	1023.4	1019.0	1014.7
42.5°	833.6	840.0	837.9	844.3	837.9	840.0	833.6	829.3	820.6	813.1	806.6
45°	644.8	649.2	649.2	651.3	649.2	649.2	644.8	640.5	633.0	626.5	622.2
47.5°	494.9	494.9	494.9	496.1	494.9	494.9	494.9	487.4	485.3	481.0	475.5
50°	376.3	377.4	378.5	379.6	378.5	377.4	376.3	374.2	373.1	370.9	369.9
52.5°	289.0	290.1	287.9	290.1	287.9	290.1	289.0	290.1	286.8	286.8	285.8
55°	218.9	217.8	218.9	220.0	218.9	217.8	218.9	218.9	217.8	217.8	217.8
57.5°	160.7	158.5	158.5	158.5	158.5	158.5	160.7	159.6	162.9	160.7	161.7
60°	119.7	120.8	120.8	121.8	120.8	120.8	119.7	121.8	121.8	122.9	122.9
62.5°	88.4	91.7	89.5	91.7	89.5	91.7	88.4	89.5	89.5	90.6	91.7
65°	57.2	57.2	57.2	58.2	57.2	57.2	57.2	58.2	59.3	58.2	61.5
67.5°	38.8	39.9	42.1	41.0	42.1	39.9	38.8	39.9	39.9	43.1	42.1
70°	31.3	28.1	28.1	31.3	28.1	28.1	31.3	29.1	28.1	30.2	29.1
72.5°	18.3	16.2	18.3	18.3	18.3	16.2	18.3	16.2	17.3	17.3	19.4
75°	9.7	8.6	7.5	10.8	7.5	8.6	9.7	9.7	9.7	9.7	10.8
77.5°	6.5	5.4	7.5	7.5	7.5	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.2	4.3	3.2	5.4	3.2	4.3	3.2	5.4	3.2	4.3	4.3
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	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: P244996

CATALOG NUMBER: LSR8B40D010 EC8B40935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2231.1	2227.8	2229.0	2222.5	2222.5	2220.3	2221.4	2216.0	2213.9	2211.7	2214.9
5°	2263.4	2258.1	2253.7	2244.0	2238.6	2232.2	2229.0	2220.3	2212.8	2206.3	2205.2
7.5°	2289.3	2277.5	2269.9	2257.0	2247.3	2239.7	2229.0	2217.1	2207.4	2198.7	2192.3
10°	2300.1	2288.3	2276.4	2260.2	2249.4	2235.4	2224.6	2209.5	2196.6	2184.7	2177.2
12.5°	2301.2	2286.1	2275.3	2257.0	2242.9	2227.8	2216.0	2198.7	2183.6	2171.8	2159.9
15°	2291.5	2277.5	2264.5	2245.1	2231.1	2217.1	2203.1	2184.7	2170.7	2156.7	2148.1
17.5°	2269.9	2257.0	2241.9	2223.5	2210.6	2197.7	2182.6	2167.5	2151.3	2136.2	2125.4
20°	2241.9	2227.8	2214.9	2196.6	2185.8	2171.8	2157.8	2141.6	2128.6	2113.5	2101.7
22.5°	2199.8	2186.9	2175.0	2164.2	2147.0	2136.2	2126.5	2108.2	2095.2	2081.2	2068.3
25°	2139.4	2126.5	2116.8	2103.8	2096.3	2084.4	2074.7	2058.6	2046.7	2033.7	2023.0
27.5°	2040.2	2032.7	2027.3	2019.7	2013.3	2007.9	2002.5	1989.5	1980.9	1969.1	1958.3
30°	1891.4	1890.3	1887.1	1883.9	1888.2	1888.2	1888.2	1886.0	1878.5	1869.8	1862.3
32.5°	1700.5	1702.7	1707.0	1710.3	1718.9	1728.6	1737.2	1741.5	1741.5	1736.1	1732.9
35°	1473.0	1476.3	1482.7	1491.4	1502.1	1514.0	1533.4	1537.7	1540.9	1540.9	1536.6
37.5°	1236.8	1235.8	1242.3	1249.8	1256.3	1264.9	1278.9	1282.2	1287.5	1285.4	1281.1
40°	1007.2	1001.8	999.6	1001.8	1009.3	1006.1	1009.3	1007.2	1007.2	999.6	999.6
42.5°	794.7	788.3	783.9	780.7	780.7	773.2	767.8	762.4	759.2	753.8	752.7
45°	612.5	604.9	599.6	597.4	594.2	584.5	578.0	571.5	564.0	561.8	562.9
47.5°	475.5	468.0	465.8	460.5	455.0	449.7	445.4	437.8	436.7	432.4	436.7
50°	366.6	364.5	361.3	359.1	355.8	351.5	347.2	342.9	340.7	340.7	341.8
52.5°	284.7	285.8	282.5	279.3	277.1	277.1	271.7	270.7	270.7	266.4	270.7
55°	217.8	216.7	217.8	215.7	215.7	212.4	212.4	209.2	209.2	205.9	208.1
57.5°	159.6	161.7	159.6	160.7	162.9	159.6	158.5	155.3	157.4	155.3	156.4
60°	124.0	124.0	124.0	122.9	122.9	121.8	121.8	120.8	120.8	118.6	120.8
62.5°	91.7	92.7	92.7	92.7	93.8	92.7	91.7	92.7	91.7	91.7	92.7
65°	60.4	61.5	61.5	60.4	62.5	60.4	61.5	62.5	63.6	62.5	63.6
67.5°	41.0	41.0	42.1	43.1	42.1	43.1	44.2	43.1	44.2	46.4	44.2
70°	30.2	31.3	31.3	30.2	29.1	30.2	29.1	32.4	32.4	32.4	34.5
72.5°	19.4	19.4	18.3	18.3	18.3	18.3	18.3	21.6	19.4	18.3	20.5
75°	10.8	11.9	11.9	8.6	9.7	11.9	8.6	9.7	13.0	10.8	13.0
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.6	7.5	7.5	7.5	8.6
80°	5.4	4.3	4.3	3.2	4.3	4.3	4.3	6.5	5.4	5.4	6.5
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3
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	2.2	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: P244996

CATALOG NUMBER: LSR8B40D010 EC8B40935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2206.3	2206.3	2205.2	2203.1	2198.7	2198.7	2197.7	2194.4	2192.3	2191.2	2191.2
5°	2195.5	2191.2	2186.9	2175.0	2175.0	2172.8	2166.4	2162.1	2159.9	2154.5	2152.4
7.5°	2185.8	2172.8	2165.3	2157.8	2148.1	2143.7	2136.2	2132.9	2125.4	2120.0	2116.8
10°	2162.1	2153.5	2143.7	2131.9	2124.3	2115.7	2107.1	2100.6	2090.9	2085.5	2081.2
12.5°	2145.9	2132.9	2124.3	2111.4	2098.5	2090.9	2079.1	2071.5	2061.8	2051.0	2044.5
15°	2130.8	2116.8	2104.9	2090.9	2076.9	2068.3	2054.3	2045.6	2031.6	2020.8	2013.3
17.5°	2108.2	2096.3	2083.4	2066.1	2053.2	2042.4	2027.3	2016.5	2003.6	1989.5	1982.0
20°	2084.4	2070.4	2057.5	2040.2	2027.3	2014.3	1999.3	1987.4	1972.3	1959.4	1950.7
22.5°	2053.2	2037.0	2026.2	2008.9	1993.8	1979.9	1965.8	1951.8	1937.8	1927.0	1917.3
25°	2007.9	1990.6	1978.8	1964.7	1950.7	1940.0	1922.7	1914.1	1900.1	1890.3	1880.6
27.5°	1943.2	1930.2	1919.5	1905.4	1893.6	1885.0	1872.0	1863.4	1851.5	1842.9	1835.3
30°	1848.3	1837.5	1827.8	1813.8	1805.2	1797.6	1785.7	1778.2	1769.6	1759.8	1757.7
32.5°	1721.0	1712.4	1702.7	1693.0	1686.5	1682.2	1672.5	1668.2	1659.6	1654.2	1648.8
35°	1529.1	1521.5	1516.2	1511.9	1509.7	1510.8	1508.6	1512.9	1515.1	1514.0	1515.1
37.5°	1277.9	1273.5	1275.7	1278.9	1289.7	1303.7	1316.7	1336.0	1349.0	1362.0	1373.8
40°	997.5	1000.7	1009.3	1028.7	1056.8	1088.1	1117.2	1153.8	1190.5	1216.4	1240.1
42.5°	752.7	762.4	783.9	812.0	854.1	900.4	945.7	999.6	1043.9	1087.0	1117.2
45°	566.1	579.1	607.1	645.9	692.3	746.2	803.4	863.7	916.6	960.8	994.2
47.5°	441.1	452.9	481.0	521.9	579.1	635.2	694.5	757.0	812.0	855.1	884.2
50°	348.3	363.4	388.2	431.3	488.5	547.8	609.3	670.7	722.5	759.2	785.0
52.5°	273.9	287.9	311.6	356.9	415.2	474.5	531.6	592.0	637.3	672.9	690.2
55°	212.4	225.4	250.2	287.9	342.9	401.2	458.3	510.1	552.1	578.0	594.2
57.5°	161.7	171.5	188.7	226.5	276.1	330.0	378.5	430.3	462.6	481.0	491.7
60°	122.9	130.5	148.8	177.9	223.2	269.6	310.6	349.4	375.3	390.4	401.2
62.5°	92.7	101.4	114.3	139.1	173.6	211.4	245.9	275.0	296.5	306.3	313.8
65°	63.6	70.1	79.8	99.2	128.3	155.3	182.2	203.8	217.8	228.6	232.9
67.5°	47.4	51.8	57.2	72.3	92.7	114.3	132.6	147.7	162.9	167.2	174.7
70°	35.6	38.8	44.2	55.0	66.8	81.9	97.1	105.7	116.5	124.0	126.2
72.5°	22.6	23.7	29.1	35.6	45.3	55.0	64.7	72.3	78.7	83.0	85.2
75°	13.0	19.4	19.4	25.9	32.4	36.7	43.1	48.5	51.8	55.0	55.0
77.5°	8.6	11.9	13.0	16.2	19.4	24.8	30.2	33.4	36.7	37.7	37.7
80°	7.5	8.6	8.6	11.9	14.0	18.3	21.6	22.6	24.8	25.9	28.1
82.5°	3.2	4.3	5.4	8.6	9.7	9.7	13.0	14.0	16.2	17.3	17.3
85°	1.1	2.2	2.2	3.2	5.4	6.5	7.5	8.6	9.7	9.7	10.8
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.3	4.3	4.3	6.5	6.5
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: P244996

CATALOG NUMBER: LSR8B40D010 EC8B40935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2189.0	2190.1	2185.8	2184.7	2182.6	2183.6	2185.8
5°	2149.1	2150.2	2145.9	2141.6	2141.6	2140.5	2141.6
7.5°	2111.4	2112.5	2106.0	2103.8	2099.5	2100.6	2100.6
10°	2073.6	2073.6	2064.0	2062.9	2059.6	2058.6	2058.6
12.5°	2037.0	2033.7	2026.2	2021.9	2024.1	2017.6	2017.6
15°	2004.6	1999.3	1989.5	1986.3	1980.9	1978.8	1978.8
17.5°	1971.2	1966.9	1958.3	1951.8	1945.3	1944.3	1945.3
20°	1938.8	1934.5	1923.8	1919.5	1914.1	1914.1	1911.9
22.5°	1906.5	1902.2	1892.5	1889.3	1881.7	1881.7	1882.8
25°	1873.1	1869.8	1859.0	1856.9	1855.8	1851.5	1853.7
27.5°	1827.8	1825.6	1817.0	1813.8	1809.5	1808.4	1810.5
30°	1744.8	1741.5	1735.1	1731.8	1724.3	1725.4	1727.5
32.5°	1641.2	1636.9	1628.3	1625.0	1618.6	1616.4	1617.5
35°	1511.9	1508.6	1501.1	1501.1	1494.6	1492.4	1494.6
37.5°	1380.3	1383.5	1380.3	1383.5	1380.3	1379.2	1380.3
40°	1256.3	1268.1	1270.3	1282.2	1277.9	1284.3	1283.2
42.5°	1137.6	1157.0	1164.6	1174.3	1172.2	1176.5	1179.7
45°	1017.9	1034.1	1041.7	1048.2	1049.2	1051.4	1052.5
47.5°	904.7	917.7	918.7	926.3	925.2	925.2	928.5
50°	799.1	807.7	809.8	815.2	810.9	808.7	809.8
52.5°	700.9	709.5	707.4	709.5	704.2	702.0	703.1
55°	600.6	604.9	604.9	604.9	598.5	598.5	598.5
57.5°	498.2	499.3	497.1	498.2	497.1	490.6	489.6
60°	404.4	404.4	403.3	404.4	401.2	397.9	397.9
62.5°	315.9	318.1	322.4	318.1	315.9	318.1	314.9
65°	236.2	240.5	239.4	241.5	240.5	240.5	238.3
67.5°	177.9	179.0	180.1	181.2	181.2	181.2	181.2
70°	130.5	133.7	132.6	132.6	132.6	132.6	139.1
72.5°	87.4	91.7	90.6	92.7	92.7	94.9	92.7
75°	59.3	63.6	61.5	64.7	63.6	61.5	66.8
77.5°	39.9	42.1	43.1	44.2	43.1	42.1	43.1
80°	28.1	30.2	29.1	30.2	30.2	30.2	31.3
82.5°	17.3	20.5	19.4	20.5	19.4	20.5	20.5
85°	11.9	13.0	10.8	13.0	11.9	11.9	14.0
87.5°	7.5	6.5	6.5	7.5	6.5	7.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)