

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: P245885

Luminaire Tested: **LSR8B50D010 EC8B509730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245885
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: LSR8B50D010 EC8B509730 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

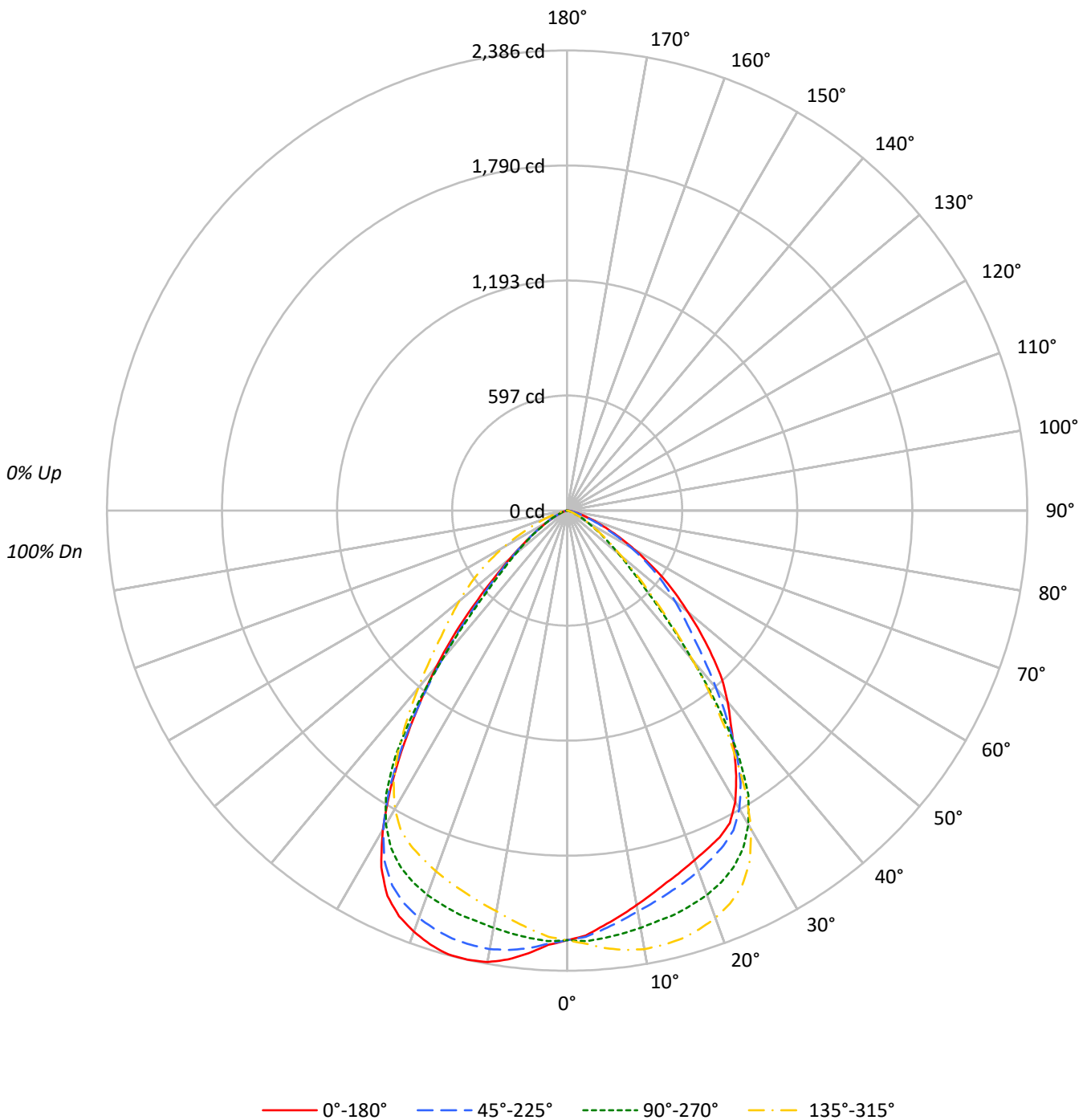
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	5.7
10°-20°	614.1	16.4
20°-30°	929.9	24.8
30°-40°	932.0	24.8
40°-50°	585.2	15.6
50°-60°	311.9	8.3
60°-70°	128.2	3.4
70°-80°	33.9	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°	1756.1	46.8
0°-40°	2688.0	71.6
0°-60°	3585.1	95.5
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2228	2228	2228	2228	2228	
5°	2161	2225	2304	2225	2161	204
15°	1996	2167	2382	2167	1996	565
25°	1870	2041	2205	2041	1870	858
35°	1508	1550	1471	1550	1508	945
45°	1062	568	657	568	1062	817
55°	604	210	222	210	604	538
65°	240	64	59	64	240	249
75°	67	13	11	13	67	76
85°	14	0	1	0	14	16
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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2205.2	2203.0	2201.9	2204.1	2205.2	2209.5	2208.5	2210.6	2210.6	2211.7	2213.9
5°	2160.6	2159.5	2160.6	2160.6	2164.9	2169.3	2168.2	2171.5	2173.6	2179.1	2181.2
7.5°	2119.3	2119.3	2118.1	2122.5	2124.7	2131.2	2130.1	2135.6	2138.8	2144.3	2151.9
10°	2076.8	2076.8	2077.9	2081.2	2082.3	2092.0	2092.0	2099.7	2104.0	2109.5	2119.3
12.5°	2035.5	2035.5	2042.0	2039.8	2044.2	2051.8	2055.1	2062.7	2069.2	2080.1	2089.9
15°	1996.3	1996.3	1998.5	2003.9	2007.2	2017.0	2022.4	2031.1	2038.8	2049.6	2063.8
17.5°	1962.6	1961.5	1962.6	1969.1	1975.7	1984.3	1988.7	1999.6	2007.2	2021.3	2034.4
20°	1928.9	1931.1	1931.1	1936.5	1940.8	1951.7	1956.0	1968.0	1976.7	1989.8	2005.0
22.5°	1899.5	1898.4	1898.4	1906.0	1909.3	1919.1	1923.4	1934.3	1944.1	1955.0	1969.1
25°	1870.1	1867.9	1872.3	1873.4	1875.5	1886.4	1889.7	1897.3	1907.1	1916.9	1931.1
27.5°	1826.6	1824.4	1825.5	1829.9	1833.1	1841.8	1844.0	1851.6	1859.2	1867.9	1879.9
30°	1742.8	1740.7	1739.6	1747.2	1750.5	1757.0	1760.2	1773.3	1775.5	1785.3	1793.9
32.5°	1631.8	1630.8	1633.0	1639.5	1642.7	1651.5	1655.8	1663.4	1668.8	1674.3	1683.0
35°	1507.9	1505.7	1507.9	1514.4	1514.4	1522.0	1525.3	1528.5	1527.4	1528.5	1526.3
37.5°	1392.5	1391.4	1392.5	1395.8	1392.5	1395.8	1392.5	1386.0	1374.1	1361.0	1347.9
40°	1294.6	1295.7	1289.2	1293.5	1281.5	1279.4	1267.4	1251.1	1227.2	1201.1	1164.1
42.5°	1190.2	1186.9	1182.6	1184.7	1175.0	1167.3	1147.7	1127.1	1096.6	1053.1	1008.5
45°	1061.8	1060.7	1058.5	1057.5	1050.9	1043.3	1027.0	1003.1	969.3	924.7	871.4
47.5°	936.7	933.4	933.4	934.5	926.9	925.8	912.7	892.1	862.7	819.2	763.7
50°	817.0	815.9	818.1	822.5	817.0	814.8	806.2	792.0	765.9	728.9	676.7
52.5°	709.3	708.2	710.4	715.8	713.6	715.8	707.2	696.3	678.9	642.9	597.3
55°	603.8	603.8	603.8	610.3	610.3	610.3	606.0	599.5	583.1	557.0	514.6
57.5°	493.9	495.0	501.5	502.6	501.5	503.7	502.6	496.1	485.2	466.7	434.1
60°	401.4	401.4	404.7	408.0	406.9	408.0	408.0	404.7	393.8	378.6	352.5
62.5°	317.7	320.9	318.7	320.9	325.3	320.9	318.7	316.6	309.0	299.2	277.4
65°	240.4	242.6	242.6	243.7	241.5	242.6	238.3	235.0	230.7	219.8	205.6
67.5°	182.8	182.8	182.8	182.8	181.7	180.6	179.5	176.3	168.6	164.3	149.0
70°	140.3	133.8	133.8	133.8	133.8	134.9	131.7	127.3	125.1	117.5	106.6
72.5°	93.5	95.7	93.5	93.5	91.4	92.5	88.1	85.9	83.8	79.4	72.9
75°	67.4	62.0	64.2	65.3	62.0	64.2	59.8	55.5	55.5	52.2	48.9
77.5°	43.5	42.5	43.5	44.6	43.5	42.5	40.3	38.1	38.1	37.0	33.7
80°	31.6	30.4	30.4	30.4	29.4	30.4	28.3	28.3	26.1	25.0	22.8
82.5°	20.7	20.7	19.6	20.7	19.6	20.7	17.4	17.4	17.4	16.3	14.2
85°	14.2	12.0	12.0	13.1	10.9	13.1	12.0	10.9	9.8	9.8	8.7
87.5°	6.5	7.6	6.5	7.6	6.5	6.5	7.6	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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2217.2	2218.2	2218.2	2222.6	2224.8	2225.8	2225.8	2234.6	2231.3	2233.5	2235.6
5°	2185.6	2192.1	2194.3	2194.3	2206.3	2210.6	2215.0	2224.8	2225.8	2232.4	2240.0
7.5°	2155.1	2162.7	2167.1	2176.9	2184.5	2192.1	2205.2	2211.7	2218.2	2227.0	2236.7
10°	2125.8	2134.5	2143.2	2150.8	2162.7	2172.6	2181.2	2196.5	2204.1	2216.1	2229.1
12.5°	2097.5	2109.5	2117.1	2130.1	2143.2	2151.9	2164.9	2179.1	2191.0	2203.0	2218.2
15°	2072.5	2086.6	2095.3	2109.5	2123.6	2135.6	2149.7	2167.1	2175.8	2190.0	2204.1
17.5°	2045.2	2060.5	2071.4	2084.4	2101.8	2114.9	2126.9	2144.3	2155.1	2170.4	2186.7
20°	2017.0	2032.2	2045.2	2058.3	2075.7	2088.8	2102.9	2120.3	2132.3	2147.5	2160.6
22.5°	1983.3	1997.4	2011.5	2026.8	2044.2	2055.1	2071.4	2086.6	2099.7	2113.8	2126.9
25°	1939.7	1957.2	1968.0	1982.2	1996.3	2008.3	2025.7	2040.9	2051.8	2064.9	2076.8
27.5°	1888.6	1901.7	1910.4	1922.3	1936.5	1947.4	1960.4	1975.7	1986.5	1998.5	2007.2
30°	1801.6	1813.6	1821.2	1829.9	1844.0	1853.8	1864.7	1878.8	1886.4	1895.1	1902.8
32.5°	1687.3	1697.1	1701.5	1708.0	1717.8	1727.6	1736.3	1748.3	1751.5	1757.0	1757.0
35°	1522.0	1524.2	1523.1	1525.3	1529.6	1535.0	1542.6	1550.3	1554.6	1554.6	1551.4
37.5°	1328.3	1315.3	1301.2	1290.3	1287.0	1284.8	1289.2	1292.4	1296.8	1299.0	1293.5
40°	1127.1	1097.7	1066.1	1037.8	1018.3	1009.6	1006.3	1008.5	1008.5	1016.1	1016.1
42.5°	954.1	908.4	861.6	819.2	790.9	769.2	759.4	759.4	760.4	765.9	769.2
45°	810.5	752.8	698.4	651.7	612.5	584.2	571.2	567.9	566.8	569.0	576.6
47.5°	700.6	640.8	584.2	526.6	485.2	456.9	445.0	440.6	436.2	440.6	441.7
50°	614.7	552.7	492.8	435.2	391.6	366.6	351.4	344.8	343.8	343.8	346.0
52.5°	536.3	478.7	418.9	360.1	314.4	290.5	276.3	273.1	268.7	273.1	273.1
55°	462.3	404.7	346.0	290.5	252.4	227.4	214.3	210.0	207.8	211.0	211.0
57.5°	381.9	332.9	278.5	228.5	190.4	173.0	163.2	157.8	156.6	158.8	156.6
60°	313.3	272.0	225.2	179.5	150.1	131.7	124.0	121.8	119.7	121.8	121.8
62.5°	248.0	213.2	175.1	140.3	115.3	102.3	93.5	93.5	92.5	92.5	93.5
65°	183.9	156.6	129.5	100.1	80.5	70.7	64.2	64.2	63.1	64.2	63.1
67.5°	133.8	115.3	93.5	72.9	57.7	52.2	47.9	44.6	46.8	44.6	43.5
70°	97.9	82.7	67.4	55.5	44.6	39.2	35.9	34.8	32.6	32.6	32.6
72.5°	65.3	55.5	45.7	35.9	29.4	23.9	22.8	20.7	18.5	19.6	21.8
75°	43.5	37.0	32.6	26.1	19.6	19.6	13.1	13.1	10.9	13.1	9.8
77.5°	30.4	25.0	19.6	16.3	13.1	12.0	8.7	8.7	7.6	7.6	7.6
80°	21.8	18.5	14.2	12.0	8.7	8.7	7.6	6.5	5.4	5.4	6.5
82.5°	13.1	9.8	9.8	8.7	5.4	4.3	3.3	4.3	2.2	2.2	2.2
85°	7.6	6.5	5.4	3.3	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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2241.1	2240.0	2242.2	2242.2	2248.7	2247.6	2250.9	2250.9	2248.7	2249.8	2254.1
5°	2248.7	2252.0	2258.5	2264.0	2273.7	2278.1	2283.5	2289.0	2290.1	2293.3	2296.6
7.5°	2248.7	2259.6	2267.2	2277.0	2290.1	2297.7	2309.6	2319.4	2323.8	2329.2	2335.7
10°	2244.3	2255.2	2269.4	2280.2	2296.6	2308.6	2320.5	2335.7	2342.3	2351.0	2359.7
12.5°	2235.6	2247.6	2262.8	2277.0	2295.5	2306.4	2321.6	2335.7	2345.5	2357.5	2367.3
15°	2222.6	2236.7	2250.9	2265.0	2284.6	2297.7	2311.8	2328.1	2337.9	2351.0	2359.7
17.5°	2201.9	2217.2	2230.2	2243.3	2261.8	2277.0	2290.1	2305.3	2315.1	2326.0	2337.9
20°	2176.9	2191.0	2205.2	2216.1	2234.6	2247.6	2261.8	2275.9	2283.5	2285.7	2304.2
22.5°	2145.4	2155.1	2166.0	2183.4	2194.3	2206.3	2219.4	2232.4	2240.0	2252.0	2258.5
25°	2093.1	2102.9	2114.9	2122.5	2135.6	2145.4	2158.4	2172.6	2176.9	2185.6	2192.1
27.5°	2020.3	2025.7	2031.1	2037.6	2045.2	2050.7	2058.3	2064.9	2069.2	2073.5	2077.9
30°	1904.9	1904.9	1904.9	1900.6	1903.8	1907.1	1908.2	1907.1	1907.1	1906.0	1906.0
32.5°	1752.6	1743.9	1734.1	1725.4	1722.2	1717.8	1715.6	1712.4	1706.9	1703.7	1704.7
35°	1547.0	1527.4	1515.5	1504.6	1495.9	1489.4	1486.1	1482.8	1481.7	1477.4	1473.0
37.5°	1290.3	1276.1	1267.4	1260.9	1253.3	1246.7	1247.8	1248.9	1252.2	1250.0	1251.1
40°	1018.3	1015.0	1018.3	1010.7	1008.5	1010.7	1016.1	1023.7	1028.1	1032.4	1040.0
42.5°	774.6	780.0	787.7	787.7	790.9	795.3	801.8	813.8	820.3	827.9	836.6
45°	583.1	589.7	599.5	602.7	604.9	610.3	618.0	627.7	632.1	638.6	646.2
47.5°	449.3	453.7	459.1	464.5	470.0	472.2	479.8	479.8	485.2	489.6	491.7
50°	350.3	354.7	359.0	362.3	364.5	367.7	369.9	373.1	374.2	376.4	377.5
52.5°	274.1	279.6	279.6	281.8	285.0	288.3	287.2	288.3	289.4	289.4	292.6
55°	214.3	214.3	217.6	217.6	219.8	218.7	219.8	219.8	219.8	219.8	220.9
57.5°	159.9	161.0	164.3	162.1	161.0	163.2	161.0	163.2	162.1	164.3	161.0
60°	122.9	122.9	124.0	124.0	125.1	125.1	125.1	124.0	124.0	122.9	122.9
62.5°	92.5	93.5	94.7	93.5	93.5	93.5	92.5	92.5	91.4	90.3	90.3
65°	62.0	60.9	63.1	60.9	62.0	62.0	60.9	62.0	58.8	59.8	58.8
67.5°	44.6	43.5	42.5	43.5	42.5	41.3	41.3	42.5	43.5	40.3	40.3
70°	29.4	30.4	29.4	30.4	31.6	31.6	30.4	29.4	30.4	28.3	29.4
72.5°	18.5	18.5	18.5	18.5	18.5	19.6	19.6	19.6	17.4	17.4	16.3
75°	8.7	12.0	9.8	8.7	12.0	12.0	10.9	10.9	9.8	9.8	9.8
77.5°	8.7	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	3.3	4.3	4.3	5.4	4.3	4.3	3.3	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: P245885

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2253.1	2252.0	2253.1	2254.1	2253.1	2252.0	2253.1	2254.1	2249.8	2248.7	2250.9
5°	2300.9	2300.9	2303.1	2304.2	2303.1	2300.9	2300.9	2296.6	2293.3	2290.1	2289.0
7.5°	2342.3	2344.5	2346.6	2347.7	2346.6	2344.5	2342.3	2335.7	2329.2	2323.8	2319.4
10°	2367.3	2370.6	2374.9	2377.1	2374.9	2370.6	2367.3	2359.7	2351.0	2342.3	2335.7
12.5°	2378.2	2381.5	2386.9	2385.8	2386.9	2381.5	2378.2	2367.3	2357.5	2345.5	2335.7
15°	2370.6	2374.9	2380.3	2382.5	2380.3	2374.9	2370.6	2359.7	2351.0	2337.9	2328.1
17.5°	2346.6	2353.2	2356.4	2359.7	2356.4	2353.2	2346.6	2337.9	2326.0	2315.1	2305.3
20°	2314.0	2318.4	2322.7	2323.8	2322.7	2318.4	2314.0	2304.2	2285.7	2283.5	2275.9
22.5°	2267.2	2270.5	2280.2	2277.0	2280.2	2270.5	2267.2	2258.5	2252.0	2240.0	2232.4
25°	2199.7	2203.0	2204.1	2205.2	2204.1	2203.0	2199.7	2192.1	2185.6	2176.9	2172.6
27.5°	2083.4	2083.4	2085.5	2086.6	2085.5	2083.4	2083.4	2077.9	2073.5	2069.2	2064.9
30°	1907.1	1907.1	1907.1	1912.6	1907.1	1907.1	1907.1	1906.0	1906.0	1907.1	1907.1
32.5°	1703.7	1701.5	1699.3	1701.5	1699.3	1701.5	1703.7	1704.7	1703.7	1706.9	1712.4
35°	1473.0	1471.9	1475.2	1470.9	1475.2	1471.9	1473.0	1473.0	1477.4	1481.7	1482.8
37.5°	1252.2	1250.0	1254.4	1250.0	1254.4	1250.0	1252.2	1251.1	1250.0	1252.2	1248.9
40°	1042.2	1044.4	1044.4	1053.1	1044.4	1044.4	1042.2	1040.0	1032.4	1028.1	1023.7
42.5°	841.0	847.5	845.3	851.8	845.3	847.5	841.0	836.6	827.9	820.3	813.8
45°	650.6	654.9	654.9	657.1	654.9	654.9	650.6	646.2	638.6	632.1	627.7
47.5°	499.3	499.3	499.3	500.5	499.3	499.3	499.3	491.7	489.6	485.2	479.8
50°	379.7	380.8	381.9	383.0	381.9	380.8	379.7	377.5	376.4	374.2	373.1
52.5°	291.6	292.6	290.5	292.6	290.5	292.6	291.6	292.6	289.4	289.4	288.3
55°	220.9	219.8	220.9	221.9	220.9	219.8	220.9	220.9	219.8	219.8	219.8
57.5°	162.1	159.9	159.9	159.9	159.9	159.9	162.1	161.0	164.3	162.1	163.2
60°	120.8	121.8	121.8	122.9	121.8	121.8	120.8	122.9	122.9	124.0	124.0
62.5°	89.2	92.5	90.3	92.5	90.3	92.5	89.2	90.3	90.3	91.4	92.5
65°	57.7	57.7	57.7	58.8	57.7	57.7	57.7	58.8	59.8	58.8	62.0
67.5°	39.2	40.3	42.5	41.3	42.5	40.3	39.2	40.3	40.3	43.5	42.5
70°	31.6	28.3	28.3	31.6	28.3	28.3	31.6	29.4	28.3	30.4	29.4
72.5°	18.5	16.3	18.5	18.5	18.5	16.3	18.5	16.3	17.4	17.4	19.6
75°	9.8	8.7	7.6	10.9	7.6	8.7	9.8	9.8	9.8	9.8	10.9
77.5°	6.5	5.4	7.6	7.6	7.6	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.3	4.3	3.3	5.4	3.3	4.3	3.3	5.4	3.3	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: P245885

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2250.9	2247.6	2248.7	2242.2	2242.2	2240.0	2241.1	2235.6	2233.5	2231.3	2234.6
5°	2283.5	2278.1	2273.7	2264.0	2258.5	2252.0	2248.7	2240.0	2232.4	2225.8	2224.8
7.5°	2309.6	2297.7	2290.1	2277.0	2267.2	2259.6	2248.7	2236.7	2227.0	2218.2	2211.7
10°	2320.5	2308.6	2296.6	2280.2	2269.4	2255.2	2244.3	2229.1	2216.1	2204.1	2196.5
12.5°	2321.6	2306.4	2295.5	2277.0	2262.8	2247.6	2235.6	2218.2	2203.0	2191.0	2179.1
15°	2311.8	2297.7	2284.6	2265.0	2250.9	2236.7	2222.6	2204.1	2190.0	2175.8	2167.1
17.5°	2290.1	2277.0	2261.8	2243.3	2230.2	2217.2	2201.9	2186.7	2170.4	2155.1	2144.3
20°	2261.8	2247.6	2234.6	2216.1	2205.2	2191.0	2176.9	2160.6	2147.5	2132.3	2120.3
22.5°	2219.4	2206.3	2194.3	2183.4	2166.0	2155.1	2145.4	2126.9	2113.8	2099.7	2086.6
25°	2158.4	2145.4	2135.6	2122.5	2114.9	2102.9	2093.1	2076.8	2064.9	2051.8	2040.9
27.5°	2058.3	2050.7	2045.2	2037.6	2031.1	2025.7	2020.3	2007.2	1998.5	1986.5	1975.7
30°	1908.2	1907.1	1903.8	1900.6	1904.9	1904.9	1904.9	1902.8	1895.1	1886.4	1878.8
32.5°	1715.6	1717.8	1722.2	1725.4	1734.1	1743.9	1752.6	1757.0	1757.0	1751.5	1748.3
35°	1486.1	1489.4	1495.9	1504.6	1515.5	1527.4	1547.0	1551.4	1554.6	1554.6	1550.3
37.5°	1247.8	1246.7	1253.3	1260.9	1267.4	1276.1	1290.3	1293.5	1299.0	1296.8	1292.4
40°	1016.1	1010.7	1008.5	1010.7	1018.3	1015.0	1018.3	1016.1	1016.1	1008.5	1008.5
42.5°	801.8	795.3	790.9	787.7	787.7	780.0	774.6	769.2	765.9	760.4	759.4
45°	618.0	610.3	604.9	602.7	599.5	589.7	583.1	576.6	569.0	566.8	567.9
47.5°	479.8	472.2	470.0	464.5	459.1	453.7	449.3	441.7	440.6	436.2	440.6
50°	369.9	367.7	364.5	362.3	359.0	354.7	350.3	346.0	343.8	343.8	344.8
52.5°	287.2	288.3	285.0	281.8	279.6	279.6	274.1	273.1	273.1	268.7	273.1
55°	219.8	218.7	219.8	217.6	217.6	214.3	214.3	211.0	211.0	207.8	210.0
57.5°	161.0	163.2	161.0	162.1	164.3	161.0	159.9	156.6	158.8	156.6	157.8
60°	125.1	125.1	125.1	124.0	124.0	122.9	122.9	121.8	121.8	119.7	121.8
62.5°	92.5	93.5	93.5	93.5	94.7	93.5	92.5	93.5	92.5	92.5	93.5
65°	60.9	62.0	62.0	60.9	63.1	60.9	62.0	63.1	64.2	63.1	64.2
67.5°	41.3	41.3	42.5	43.5	42.5	43.5	44.6	43.5	44.6	46.8	44.6
70°	30.4	31.6	31.6	30.4	29.4	30.4	29.4	32.6	32.6	32.6	34.8
72.5°	19.6	19.6	18.5	18.5	18.5	18.5	18.5	21.8	19.6	18.5	20.7
75°	10.9	12.0	12.0	8.7	9.8	12.0	8.7	9.8	13.1	10.9	13.1
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.7	7.6	7.6	7.6	8.7
80°	5.4	4.3	4.3	3.3	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: P245885

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2225.8	2225.8	2224.8	2222.6	2218.2	2218.2	2217.2	2213.9	2211.7	2210.6	2210.6
5°	2215.0	2210.6	2206.3	2194.3	2194.3	2192.1	2185.6	2181.2	2179.1	2173.6	2171.5
7.5°	2205.2	2192.1	2184.5	2176.9	2167.1	2162.7	2155.1	2151.9	2144.3	2138.8	2135.6
10°	2181.2	2172.6	2162.7	2150.8	2143.2	2134.5	2125.8	2119.3	2109.5	2104.0	2099.7
12.5°	2164.9	2151.9	2143.2	2130.1	2117.1	2109.5	2097.5	2089.9	2080.1	2069.2	2062.7
15°	2149.7	2135.6	2123.6	2109.5	2095.3	2086.6	2072.5	2063.8	2049.6	2038.8	2031.1
17.5°	2126.9	2114.9	2101.8	2084.4	2071.4	2060.5	2045.2	2034.4	2021.3	2007.2	1999.6
20°	2102.9	2088.8	2075.7	2058.3	2045.2	2032.2	2017.0	2005.0	1989.8	1976.7	1968.0
22.5°	2071.4	2055.1	2044.2	2026.8	2011.5	1997.4	1983.3	1969.1	1955.0	1944.1	1934.3
25°	2025.7	2008.3	1996.3	1982.2	1968.0	1957.2	1939.7	1931.1	1916.9	1907.1	1897.3
27.5°	1960.4	1947.4	1936.5	1922.3	1910.4	1901.7	1888.6	1879.9	1867.9	1859.2	1851.6
30°	1864.7	1853.8	1844.0	1829.9	1821.2	1813.6	1801.6	1793.9	1785.3	1775.5	1773.3
32.5°	1736.3	1727.6	1717.8	1708.0	1701.5	1697.1	1687.3	1683.0	1674.3	1668.8	1663.4
35°	1542.6	1535.0	1529.6	1525.3	1523.1	1524.2	1522.0	1526.3	1528.5	1527.4	1528.5
37.5°	1289.2	1284.8	1287.0	1290.3	1301.2	1315.3	1328.3	1347.9	1361.0	1374.1	1386.0
40°	1006.3	1009.6	1018.3	1037.8	1066.1	1097.7	1127.1	1164.1	1201.1	1227.2	1251.1
42.5°	759.4	769.2	790.9	819.2	861.6	908.4	954.1	1008.5	1053.1	1096.6	1127.1
45°	571.2	584.2	612.5	651.7	698.4	752.8	810.5	871.4	924.7	969.3	1003.1
47.5°	445.0	456.9	485.2	526.6	584.2	640.8	700.6	763.7	819.2	862.7	892.1
50°	351.4	366.6	391.6	435.2	492.8	552.7	614.7	676.7	728.9	765.9	792.0
52.5°	276.3	290.5	314.4	360.1	418.9	478.7	536.3	597.3	642.9	678.9	696.3
55°	214.3	227.4	252.4	290.5	346.0	404.7	462.3	514.6	557.0	583.1	599.5
57.5°	163.2	173.0	190.4	228.5	278.5	332.9	381.9	434.1	466.7	485.2	496.1
60°	124.0	131.7	150.1	179.5	225.2	272.0	313.3	352.5	378.6	393.8	404.7
62.5°	93.5	102.3	115.3	140.3	175.1	213.2	248.0	277.4	299.2	309.0	316.6
65°	64.2	70.7	80.5	100.1	129.5	156.6	183.9	205.6	219.8	230.7	235.0
67.5°	47.9	52.2	57.7	72.9	93.5	115.3	133.8	149.0	164.3	168.6	176.3
70°	35.9	39.2	44.6	55.5	67.4	82.7	97.9	106.6	117.5	125.1	127.3
72.5°	22.8	23.9	29.4	35.9	45.7	55.5	65.3	72.9	79.4	83.8	85.9
75°	13.1	19.6	19.6	26.1	32.6	37.0	43.5	48.9	52.2	55.5	55.5
77.5°	8.7	12.0	13.1	16.3	19.6	25.0	30.4	33.7	37.0	38.1	38.1
80°	7.6	8.7	8.7	12.0	14.2	18.5	21.8	22.8	25.0	26.1	28.3
82.5°	3.3	4.3	5.4	8.7	9.8	9.8	13.1	14.2	16.3	17.4	17.4
85°	1.1	2.2	2.2	3.3	5.4	6.5	7.6	8.7	9.8	9.8	10.9
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: P245885

CATALOG NUMBER: LSR8B50D010 EC8B509730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2208.5	2209.5	2205.2	2204.1	2201.9	2203.0	2205.2
5°	2168.2	2169.3	2164.9	2160.6	2160.6	2159.5	2160.6
7.5°	2130.1	2131.2	2124.7	2122.5	2118.1	2119.3	2119.3
10°	2092.0	2092.0	2082.3	2081.2	2077.9	2076.8	2076.8
12.5°	2055.1	2051.8	2044.2	2039.8	2042.0	2035.5	2035.5
15°	2022.4	2017.0	2007.2	2003.9	1998.5	1996.3	1996.3
17.5°	1988.7	1984.3	1975.7	1969.1	1962.6	1961.5	1962.6
20°	1956.0	1951.7	1940.8	1936.5	1931.1	1931.1	1928.9
22.5°	1923.4	1919.1	1909.3	1906.0	1898.4	1898.4	1899.5
25°	1889.7	1886.4	1875.5	1873.4	1872.3	1867.9	1870.1
27.5°	1844.0	1841.8	1833.1	1829.9	1825.5	1824.4	1826.6
30°	1760.2	1757.0	1750.5	1747.2	1739.6	1740.7	1742.8
32.5°	1655.8	1651.5	1642.7	1639.5	1633.0	1630.8	1631.8
35°	1525.3	1522.0	1514.4	1514.4	1507.9	1505.7	1507.9
37.5°	1392.5	1395.8	1392.5	1395.8	1392.5	1391.4	1392.5
40°	1267.4	1279.4	1281.5	1293.5	1289.2	1295.7	1294.6
42.5°	1147.7	1167.3	1175.0	1184.7	1182.6	1186.9	1190.2
45°	1027.0	1043.3	1050.9	1057.5	1058.5	1060.7	1061.8
47.5°	912.7	925.8	926.9	934.5	933.4	933.4	936.7
50°	806.2	814.8	817.0	822.5	818.1	815.9	817.0
52.5°	707.2	715.8	713.6	715.8	710.4	708.2	709.3
55°	606.0	610.3	610.3	610.3	603.8	603.8	603.8
57.5°	502.6	503.7	501.5	502.6	501.5	495.0	493.9
60°	408.0	408.0	406.9	408.0	404.7	401.4	401.4
62.5°	318.7	320.9	325.3	320.9	318.7	320.9	317.7
65°	238.3	242.6	241.5	243.7	242.6	242.6	240.4
67.5°	179.5	180.6	181.7	182.8	182.8	182.8	182.8
70°	131.7	134.9	133.8	133.8	133.8	133.8	140.3
72.5°	88.1	92.5	91.4	93.5	93.5	95.7	93.5
75°	59.8	64.2	62.0	65.3	64.2	62.0	67.4
77.5°	40.3	42.5	43.5	44.6	43.5	42.5	43.5
80°	28.3	30.4	29.4	30.4	30.4	30.4	31.6
82.5°	17.4	20.7	19.6	20.7	19.6	20.7	20.7
85°	12.0	13.1	10.9	13.1	12.0	12.0	14.2
87.5°	7.6	6.5	6.5	7.6	6.5	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)