

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: P245903

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245903
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 EC8B50835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4207.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

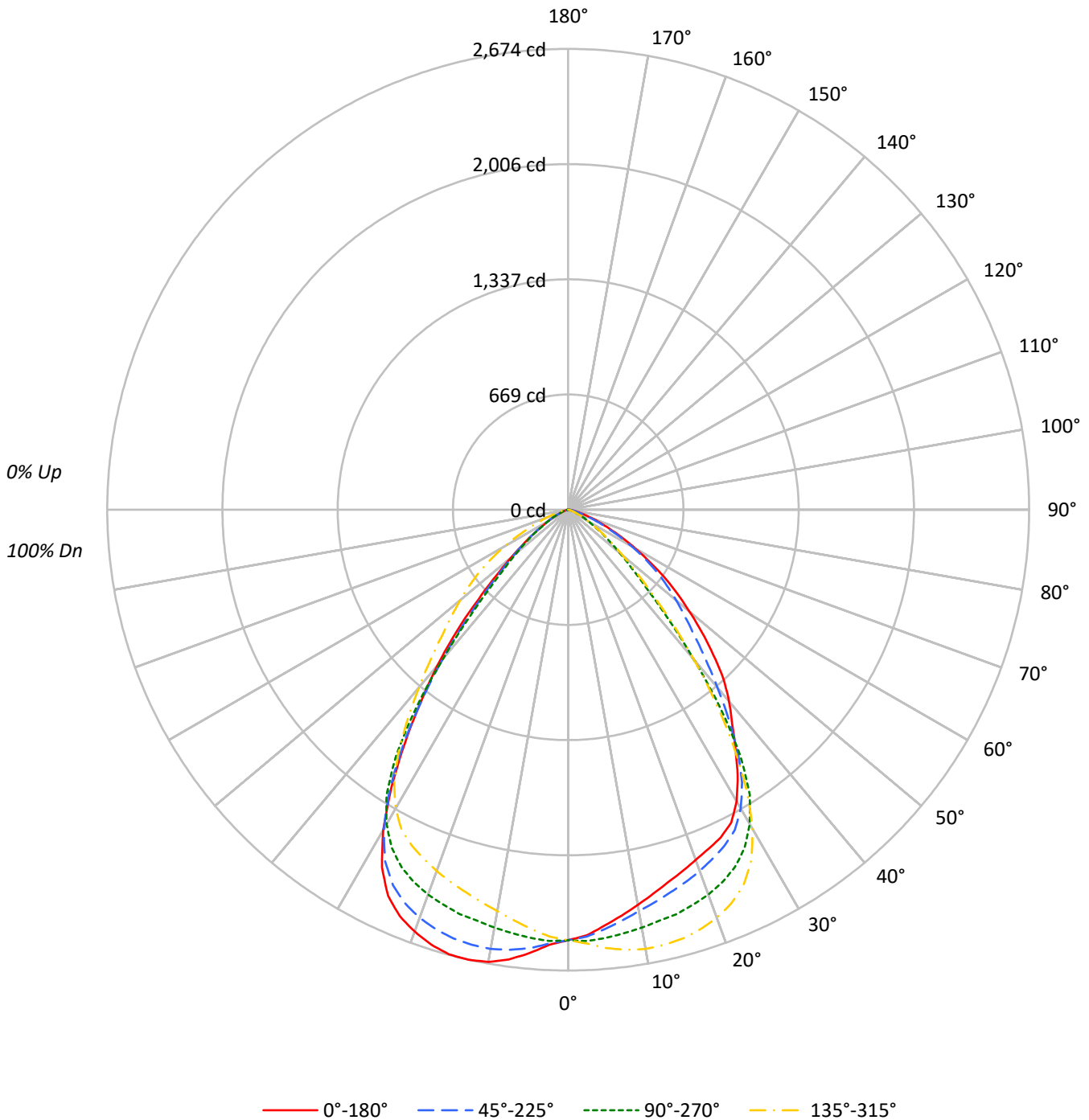
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	77017	77017	77017	77017
5°	74971	77196	79951	77196
10°	72898	77096	83434	77096
15°	71440	77553	85260	77553
20°	70953	77995	85481	77995
25°	71325	77840	84108	77840
30°	69561	74991	76337	74991
35°	63630	65418	62068	65418
40°	58417	45507	47520	45507
45°	51908	27762	32122	27762
50°	43933	18546	20595	18546
55°	36386	12655	13376	12655
60°	27753	8424	8498	8424
65°	19664	5246	4808	5246
70°	14182	3516	3192	3516
75°	9007	1751	1454	1751
80°	6286	1296	1083	1296
85°	5626	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	5.7
10°-20°	688.4	16.4
20°-30°	1042.4	24.8
30°-40°	1044.7	24.8
40°-50°	656.0	15.6
50°-60°	349.6	8.3
60°-70°	143.8	3.4
70°-80°	38.0	0.9
80°-90°	6.4	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°	1968.5	46.8
0°-40°	3013.2	71.6
0°-60°	4018.8	95.5
0°-90°	4207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2498	2498	2498	2498	2498	
5°	2422	2494	2583	2494	2422	228
15°	2238	2429	2671	2429	2238	633
25°	2096	2288	2472	2288	2096	961
35°	1690	1738	1649	1738	1690	1059
45°	1190	637	737	637	1190	915
55°	677	235	249	235	677	603
65°	270	72	66	72	270	280
75°	76	15	12	15	76	86
85°	16	0	1	0	16	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°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2472.0	2469.5	2468.3	2470.8	2472.0	2476.8	2475.6	2478.0	2478.0	2479.3	2481.7
5°	2422.0	2420.7	2422.0	2422.0	2426.8	2431.7	2430.5	2434.2	2436.6	2442.7	2445.1
7.5°	2375.6	2375.6	2374.4	2379.3	2381.7	2389.0	2387.8	2393.9	2397.6	2403.6	2412.2
10°	2328.1	2328.1	2329.3	2332.9	2334.2	2345.1	2345.1	2353.7	2358.5	2364.6	2375.6
12.5°	2281.7	2281.7	2289.0	2286.6	2291.5	2300.0	2303.7	2312.2	2319.5	2331.7	2342.7
15°	2237.8	2237.8	2240.3	2246.3	2250.0	2261.0	2267.1	2276.8	2285.4	2297.6	2313.4
17.5°	2200.0	2198.8	2200.0	2207.3	2214.7	2224.4	2229.3	2241.5	2250.0	2265.9	2280.5
20°	2162.2	2164.7	2164.7	2170.7	2175.6	2187.8	2192.7	2206.1	2215.9	2230.5	2247.6
22.5°	2129.3	2128.1	2128.1	2136.6	2140.3	2151.2	2156.1	2168.3	2179.3	2191.5	2207.3
25°	2096.3	2093.9	2098.8	2100.0	2102.4	2114.6	2118.3	2126.8	2137.8	2148.8	2164.7
27.5°	2047.6	2045.1	2046.3	2051.2	2054.9	2064.6	2067.1	2075.6	2084.1	2093.9	2107.3
30°	1953.6	1951.2	1950.0	1958.6	1962.2	1969.5	1973.2	1987.8	1990.2	2001.2	2011.0
32.5°	1829.3	1828.0	1830.5	1837.8	1841.4	1851.2	1856.1	1864.6	1870.7	1876.8	1886.6
35°	1690.3	1687.8	1690.3	1697.6	1697.6	1706.1	1709.8	1713.4	1712.2	1713.4	1711.0
37.5°	1561.0	1559.7	1561.0	1564.6	1561.0	1564.6	1561.0	1553.7	1540.3	1525.6	1511.0
40°	1451.2	1452.4	1445.1	1450.0	1436.6	1434.2	1420.8	1402.4	1375.6	1346.4	1304.9
42.5°	1334.2	1330.5	1325.6	1328.0	1317.1	1308.5	1286.6	1263.4	1229.3	1180.5	1130.5
45°	1190.3	1189.0	1186.6	1185.4	1178.1	1169.5	1151.2	1124.4	1086.6	1036.6	976.8
47.5°	1050.0	1046.3	1046.3	1047.5	1039.0	1037.8	1023.1	1000.0	967.1	918.3	856.1
50°	915.8	914.6	917.1	922.0	915.8	913.4	903.7	887.8	858.6	817.1	758.5
52.5°	795.1	793.9	796.4	802.4	800.0	802.4	792.7	780.5	761.0	720.7	669.5
55°	676.8	676.8	676.8	684.1	684.1	684.1	679.3	672.0	653.7	624.4	576.9
57.5°	553.7	554.9	562.2	563.4	562.2	564.7	563.4	556.1	543.9	523.2	486.6
60°	450.0	450.0	453.7	457.3	456.1	457.3	457.3	453.7	441.5	424.4	395.1
62.5°	356.1	359.8	357.3	359.8	364.6	359.8	357.3	354.9	346.4	335.4	311.0
65°	269.5	272.0	272.0	273.2	270.7	272.0	267.1	263.4	258.6	246.4	230.5
67.5°	204.9	204.9	204.9	204.9	203.6	202.4	201.2	197.6	189.0	184.2	167.1
70°	157.3	150.0	150.0	150.0	150.0	151.2	147.6	142.7	140.2	131.7	119.5
72.5°	104.9	107.3	104.9	104.9	102.5	103.7	98.8	96.3	93.9	89.0	81.7
75°	75.6	69.5	71.9	73.2	69.5	71.9	67.1	62.2	62.2	58.5	54.9
77.5°	48.8	47.6	48.8	50.0	48.8	47.6	45.1	42.7	42.7	41.5	37.8
80°	35.4	34.1	34.1	34.1	32.9	34.1	31.7	31.7	29.3	28.1	25.6
82.5°	23.2	23.2	21.9	23.2	21.9	23.2	19.5	19.5	19.5	18.3	15.9
85°	15.9	13.4	13.4	14.7	12.2	14.7	13.4	12.2	11.0	11.0	9.7
87.5°	7.3	8.5	7.3	8.5	7.3	7.3	8.5	7.3	7.3	4.9	4.9
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°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2485.4	2486.6	2486.6	2491.5	2493.9	2495.1	2495.1	2504.9	2501.2	2503.7	2506.1
5°	2450.0	2457.3	2459.8	2459.8	2473.2	2478.0	2482.9	2493.9	2495.1	2502.4	2511.0
7.5°	2415.8	2424.4	2429.3	2440.2	2448.8	2457.3	2472.0	2479.3	2486.6	2496.4	2507.3
10°	2382.9	2392.7	2402.4	2411.0	2424.4	2435.4	2445.1	2462.2	2470.8	2484.2	2498.8
12.5°	2351.2	2364.6	2373.2	2387.8	2402.4	2412.2	2426.8	2442.7	2456.1	2469.5	2486.6
15°	2323.2	2339.0	2348.8	2364.6	2380.5	2393.9	2409.8	2429.3	2439.0	2454.9	2470.8
17.5°	2292.7	2309.8	2322.0	2336.6	2356.1	2370.7	2384.2	2403.6	2415.8	2432.9	2451.2
20°	2261.0	2278.1	2292.7	2307.3	2326.8	2341.5	2357.3	2376.8	2390.2	2407.3	2422.0
22.5°	2223.2	2239.1	2254.9	2271.9	2291.5	2303.7	2322.0	2339.0	2353.7	2369.5	2384.2
25°	2174.4	2193.9	2206.1	2221.9	2237.8	2251.2	2270.7	2287.8	2300.0	2314.6	2328.1
27.5°	2117.1	2131.7	2141.5	2154.9	2170.7	2182.9	2197.5	2214.7	2226.9	2240.3	2250.0
30°	2019.5	2032.9	2041.5	2051.2	2067.1	2078.1	2090.3	2106.1	2114.6	2124.4	2132.9
32.5°	1891.4	1902.4	1907.3	1914.6	1925.6	1936.6	1946.4	1959.8	1963.4	1969.5	1969.5
35°	1706.1	1708.5	1707.3	1709.8	1714.7	1720.7	1729.3	1737.8	1742.7	1742.7	1739.0
37.5°	1489.0	1474.4	1458.6	1446.4	1442.7	1440.2	1445.1	1448.8	1453.7	1456.1	1450.0
40°	1263.4	1230.5	1195.1	1163.4	1141.5	1131.7	1128.1	1130.5	1130.5	1139.0	1139.0
42.5°	1069.5	1018.3	965.9	918.3	886.6	862.2	851.2	851.2	852.4	858.6	862.2
45°	908.6	843.9	782.9	730.5	686.6	654.9	640.3	636.6	635.4	637.8	646.3
47.5°	785.4	718.3	654.9	590.3	543.9	512.2	498.8	493.9	489.0	493.9	495.1
50°	689.0	619.5	552.5	487.8	439.0	411.0	393.9	386.6	385.4	385.4	387.8
52.5°	601.2	536.6	469.5	403.7	352.4	325.6	309.8	306.1	301.2	306.1	306.1
55°	518.3	453.7	387.8	325.6	282.9	254.9	240.2	235.4	232.9	236.6	236.6
57.5°	428.1	373.2	312.2	256.1	213.4	193.9	182.9	176.8	175.6	178.0	175.6
60°	351.2	304.9	252.4	201.2	168.3	147.6	139.0	136.6	134.1	136.6	136.6
62.5°	278.0	239.0	196.3	157.3	129.3	114.6	104.9	104.9	103.7	103.7	104.9
65°	206.1	175.6	145.1	112.2	90.3	79.3	71.9	71.9	70.7	71.9	70.7
67.5°	150.0	129.3	104.9	81.7	64.7	58.5	53.7	50.0	52.5	50.0	48.8
70°	109.8	92.7	75.6	62.2	50.0	43.9	40.3	39.0	36.6	36.6	36.6
72.5°	73.2	62.2	51.2	40.3	32.9	26.8	25.6	23.2	20.7	21.9	24.4
75°	48.8	41.5	36.6	29.3	21.9	21.9	14.7	14.7	12.2	14.7	11.0
77.5°	34.1	28.1	21.9	18.3	14.7	13.4	9.7	9.7	8.5	8.5	8.5
80°	24.4	20.7	15.9	13.4	9.7	9.7	8.5	7.3	6.1	6.1	7.3
82.5°	14.7	11.0	11.0	9.7	6.1	4.9	3.7	4.9	2.5	2.5	2.5
85°	8.5	7.3	6.1	3.7	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	4.9	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2512.2	2511.0	2513.4	2513.4	2520.8	2519.5	2523.2	2523.2	2520.8	2522.0	2526.8
5°	2520.8	2524.4	2531.7	2537.8	2548.8	2553.7	2559.8	2565.9	2567.1	2570.7	2574.4
7.5°	2520.8	2533.0	2541.5	2552.4	2567.1	2575.6	2589.0	2600.0	2604.9	2611.0	2618.3
10°	2515.8	2528.0	2543.9	2556.1	2574.4	2587.8	2601.2	2618.3	2625.6	2635.4	2645.1
12.5°	2506.1	2519.5	2536.6	2552.4	2573.2	2585.4	2602.4	2618.3	2629.3	2642.7	2653.7
15°	2491.5	2507.3	2523.2	2539.0	2561.0	2575.6	2591.5	2609.8	2620.7	2635.4	2645.1
17.5°	2468.3	2485.4	2500.0	2514.6	2535.4	2552.4	2567.1	2584.2	2595.1	2607.3	2620.7
20°	2440.2	2456.1	2472.0	2484.2	2504.9	2519.5	2535.4	2551.2	2559.8	2562.2	2582.9
22.5°	2404.9	2415.8	2428.0	2447.6	2459.8	2473.2	2487.8	2502.4	2511.0	2524.4	2531.7
25°	2346.3	2357.3	2370.7	2379.3	2393.9	2404.9	2419.5	2435.4	2440.2	2450.0	2457.3
27.5°	2264.7	2270.7	2276.8	2284.1	2292.7	2298.8	2307.3	2314.6	2319.5	2324.4	2329.3
30°	2135.3	2135.3	2135.3	2130.5	2134.1	2137.8	2139.0	2137.8	2137.8	2136.6	2136.6
32.5°	1964.6	1954.9	1943.9	1934.2	1930.5	1925.6	1923.2	1919.5	1913.4	1909.8	1911.0
35°	1734.1	1712.2	1698.8	1686.6	1676.9	1669.5	1665.9	1662.2	1661.0	1656.1	1651.2
37.5°	1446.4	1430.5	1420.8	1413.4	1404.9	1397.6	1398.8	1400.0	1403.6	1401.2	1402.4
40°	1141.5	1137.8	1141.5	1132.9	1130.5	1132.9	1139.0	1147.6	1152.5	1157.3	1165.9
42.5°	868.3	874.4	883.0	883.0	886.6	891.5	898.8	912.2	919.5	928.0	937.8
45°	653.7	661.0	672.0	675.6	678.1	684.1	692.7	703.7	708.5	715.8	724.4
47.5°	503.7	508.5	514.6	520.7	526.8	529.3	537.8	537.8	543.9	548.8	551.2
50°	392.7	397.6	402.4	406.1	408.5	412.2	414.6	418.3	419.5	421.9	423.2
52.5°	307.3	313.4	313.4	315.8	319.5	323.2	322.0	323.2	324.4	324.4	328.0
55°	240.2	240.2	243.9	243.9	246.4	245.1	246.4	246.4	246.4	246.4	247.6
57.5°	179.3	180.5	184.2	181.7	180.5	182.9	180.5	182.9	181.7	184.2	180.5
60°	137.8	137.8	139.0	139.0	140.2	140.2	140.2	139.0	139.0	137.8	137.8
62.5°	103.7	104.9	106.1	104.9	104.9	104.9	103.7	103.7	102.5	101.2	101.2
65°	69.5	68.3	70.7	68.3	69.5	69.5	68.3	69.5	65.9	67.1	65.9
67.5°	50.0	48.8	47.6	48.8	47.6	46.3	46.3	47.6	48.8	45.1	45.1
70°	32.9	34.1	32.9	34.1	35.4	35.4	34.1	32.9	34.1	31.7	32.9
72.5°	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	19.5	19.5	18.3
75°	9.7	13.4	11.0	9.7	13.4	13.4	12.2	12.2	11.0	11.0	11.0
77.5°	9.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.1	7.3	6.1
80°	4.9	4.9	4.9	3.7	4.9	4.9	6.1	4.9	4.9	3.7	6.1
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	1.2
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: P245903

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2525.6	2524.4	2525.6	2526.8	2525.6	2524.4	2525.6	2526.8	2522.0	2520.8	2523.2
5°	2579.3	2579.3	2581.7	2582.9	2581.7	2579.3	2579.3	2574.4	2570.7	2567.1	2565.9
7.5°	2625.6	2628.1	2630.5	2631.7	2630.5	2628.1	2625.6	2618.3	2611.0	2604.9	2600.0
10°	2653.7	2657.3	2662.2	2664.6	2662.2	2657.3	2653.7	2645.1	2635.4	2625.6	2618.3
12.5°	2665.9	2669.5	2675.6	2674.4	2675.6	2669.5	2665.9	2653.7	2642.7	2629.3	2618.3
15°	2657.3	2662.2	2668.3	2670.7	2668.3	2662.2	2657.3	2645.1	2635.4	2620.7	2609.8
17.5°	2630.5	2637.8	2641.5	2645.1	2641.5	2637.8	2630.5	2620.7	2607.3	2595.1	2584.2
20°	2593.9	2598.8	2603.7	2604.9	2603.7	2598.8	2593.9	2582.9	2562.2	2559.8	2551.2
22.5°	2541.5	2545.1	2556.1	2552.4	2556.1	2545.1	2541.5	2531.7	2524.4	2511.0	2502.4
25°	2465.8	2469.5	2470.8	2472.0	2470.8	2469.5	2465.8	2457.3	2450.0	2440.2	2435.4
27.5°	2335.4	2335.4	2337.8	2339.0	2337.8	2335.4	2335.4	2329.3	2324.4	2319.5	2314.6
30°	2137.8	2137.8	2137.8	2143.9	2137.8	2137.8	2137.8	2136.6	2136.6	2137.8	2137.8
32.5°	1909.8	1907.3	1904.9	1907.3	1904.9	1907.3	1909.8	1911.0	1909.8	1913.4	1919.5
35°	1651.2	1650.0	1653.7	1648.8	1653.7	1650.0	1651.2	1651.2	1656.1	1661.0	1662.2
37.5°	1403.6	1401.2	1406.1	1401.2	1406.1	1401.2	1403.6	1402.4	1401.2	1403.6	1400.0
40°	1168.3	1170.7	1170.7	1180.5	1170.7	1170.7	1168.3	1165.9	1157.3	1152.5	1147.6
42.5°	942.7	950.0	947.6	954.9	947.6	950.0	942.7	937.8	928.0	919.5	912.2
45°	729.3	734.2	734.2	736.6	734.2	734.2	729.3	724.4	715.8	708.5	703.7
47.5°	559.7	559.7	559.7	561.0	559.7	559.7	559.7	551.2	548.8	543.9	537.8
50°	425.6	426.8	428.1	429.3	428.1	426.8	425.6	423.2	421.9	419.5	418.3
52.5°	326.8	328.0	325.6	328.0	325.6	328.0	326.8	328.0	324.4	324.4	323.2
55°	247.6	246.4	247.6	248.8	247.6	246.4	247.6	247.6	246.4	246.4	246.4
57.5°	181.7	179.3	179.3	179.3	179.3	179.3	181.7	180.5	184.2	181.7	182.9
60°	135.4	136.6	136.6	137.8	136.6	136.6	135.4	137.8	137.8	139.0	139.0
62.5°	100.0	103.7	101.2	103.7	101.2	103.7	100.0	101.2	101.2	102.5	103.7
65°	64.7	64.7	64.7	65.9	64.7	64.7	64.7	65.9	67.1	65.9	69.5
67.5°	43.9	45.1	47.6	46.3	47.6	45.1	43.9	45.1	45.1	48.8	47.6
70°	35.4	31.7	31.7	35.4	31.7	31.7	35.4	32.9	31.7	34.1	32.9
72.5°	20.7	18.3	20.7	20.7	20.7	18.3	20.7	18.3	19.5	19.5	21.9
75°	11.0	9.7	8.5	12.2	8.5	9.7	11.0	11.0	11.0	11.0	12.2
77.5°	7.3	6.1	8.5	8.5	8.5	6.1	7.3	6.1	7.3	6.1	7.3
80°	3.7	4.9	3.7	6.1	3.7	4.9	3.7	6.1	3.7	4.9	4.9
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	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: P245903

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2523.2	2519.5	2520.8	2513.4	2513.4	2511.0	2512.2	2506.1	2503.7	2501.2	2504.9
5°	2559.8	2553.7	2548.8	2537.8	2531.7	2524.4	2520.8	2511.0	2502.4	2495.1	2493.9
7.5°	2589.0	2575.6	2567.1	2552.4	2541.5	2533.0	2520.8	2507.3	2496.4	2486.6	2479.3
10°	2601.2	2587.8	2574.4	2556.1	2543.9	2528.0	2515.8	2498.8	2484.2	2470.8	2462.2
12.5°	2602.4	2585.4	2573.2	2552.4	2536.6	2519.5	2506.1	2486.6	2469.5	2456.1	2442.7
15°	2591.5	2575.6	2561.0	2539.0	2523.2	2507.3	2491.5	2470.8	2454.9	2439.0	2429.3
17.5°	2567.1	2552.4	2535.4	2514.6	2500.0	2485.4	2468.3	2451.2	2432.9	2415.8	2403.6
20°	2535.4	2519.5	2504.9	2484.2	2472.0	2456.1	2440.2	2422.0	2407.3	2390.2	2376.8
22.5°	2487.8	2473.2	2459.8	2447.6	2428.0	2415.8	2404.9	2384.2	2369.5	2353.7	2339.0
25°	2419.5	2404.9	2393.9	2379.3	2370.7	2357.3	2346.3	2328.1	2314.6	2300.0	2287.8
27.5°	2307.3	2298.8	2292.7	2284.1	2276.8	2270.7	2264.7	2250.0	2240.3	2226.9	2214.7
30°	2139.0	2137.8	2134.1	2130.5	2135.3	2135.3	2135.3	2132.9	2124.4	2114.6	2106.1
32.5°	1923.2	1925.6	1930.5	1934.2	1943.9	1954.9	1964.6	1969.5	1969.5	1963.4	1959.8
35°	1665.9	1669.5	1676.9	1686.6	1698.8	1712.2	1734.1	1739.0	1742.7	1742.7	1737.8
37.5°	1398.8	1397.6	1404.9	1413.4	1420.8	1430.5	1446.4	1450.0	1456.1	1453.7	1448.8
40°	1139.0	1132.9	1130.5	1132.9	1141.5	1137.8	1141.5	1139.0	1139.0	1130.5	1130.5
42.5°	898.8	891.5	886.6	883.0	883.0	874.4	868.3	862.2	858.6	852.4	851.2
45°	692.7	684.1	678.1	675.6	672.0	661.0	653.7	646.3	637.8	635.4	636.6
47.5°	537.8	529.3	526.8	520.7	514.6	508.5	503.7	495.1	493.9	489.0	493.9
50°	414.6	412.2	408.5	406.1	402.4	397.6	392.7	387.8	385.4	385.4	386.6
52.5°	322.0	323.2	319.5	315.8	313.4	313.4	307.3	306.1	306.1	301.2	306.1
55°	246.4	245.1	246.4	243.9	243.9	240.2	240.2	236.6	236.6	232.9	235.4
57.5°	180.5	182.9	180.5	181.7	184.2	180.5	179.3	175.6	178.0	175.6	176.8
60°	140.2	140.2	140.2	139.0	139.0	137.8	137.8	136.6	136.6	134.1	136.6
62.5°	103.7	104.9	104.9	104.9	106.1	104.9	103.7	104.9	103.7	103.7	104.9
65°	68.3	69.5	69.5	68.3	70.7	68.3	69.5	70.7	71.9	70.7	71.9
67.5°	46.3	46.3	47.6	48.8	47.6	48.8	50.0	48.8	50.0	52.5	50.0
70°	34.1	35.4	35.4	34.1	32.9	34.1	32.9	36.6	36.6	36.6	39.0
72.5°	21.9	21.9	20.7	20.7	20.7	20.7	20.7	24.4	21.9	20.7	23.2
75°	12.2	13.4	13.4	9.7	11.0	13.4	9.7	11.0	14.7	12.2	14.7
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.7	8.5	8.5	8.5	9.7
80°	6.1	4.9	4.9	3.7	4.9	4.9	4.9	7.3	6.1	6.1	7.3
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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: P245903

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2495.1	2495.1	2493.9	2491.5	2486.6	2486.6	2485.4	2481.7	2479.3	2478.0	2478.0
5°	2482.9	2478.0	2473.2	2459.8	2459.8	2457.3	2450.0	2445.1	2442.7	2436.6	2434.2
7.5°	2472.0	2457.3	2448.8	2440.2	2429.3	2424.4	2415.8	2412.2	2403.6	2397.6	2393.9
10°	2445.1	2435.4	2424.4	2411.0	2402.4	2392.7	2382.9	2375.6	2364.6	2358.5	2353.7
12.5°	2426.8	2412.2	2402.4	2387.8	2373.2	2364.6	2351.2	2342.7	2331.7	2319.5	2312.2
15°	2409.8	2393.9	2380.5	2364.6	2348.8	2339.0	2323.2	2313.4	2297.6	2285.4	2276.8
17.5°	2384.2	2370.7	2356.1	2336.6	2322.0	2309.8	2292.7	2280.5	2265.9	2250.0	2241.5
20°	2357.3	2341.5	2326.8	2307.3	2292.7	2278.1	2261.0	2247.6	2230.5	2215.9	2206.1
22.5°	2322.0	2303.7	2291.5	2271.9	2254.9	2239.1	2223.2	2207.3	2191.5	2179.3	2168.3
25°	2270.7	2251.2	2237.8	2221.9	2206.1	2193.9	2174.4	2164.7	2148.8	2137.8	2126.8
27.5°	2197.5	2182.9	2170.7	2154.9	2141.5	2131.7	2117.1	2107.3	2093.9	2084.1	2075.6
30°	2090.3	2078.1	2067.1	2051.2	2041.5	2032.9	2019.5	2011.0	2001.2	1990.2	1987.8
32.5°	1946.4	1936.6	1925.6	1914.6	1907.3	1902.4	1891.4	1886.6	1876.8	1870.7	1864.6
35°	1729.3	1720.7	1714.7	1709.8	1707.3	1708.5	1706.1	1711.0	1713.4	1712.2	1713.4
37.5°	1445.1	1440.2	1442.7	1446.4	1458.6	1474.4	1489.0	1511.0	1525.6	1540.3	1553.7
40°	1128.1	1131.7	1141.5	1163.4	1195.1	1230.5	1263.4	1304.9	1346.4	1375.6	1402.4
42.5°	851.2	862.2	886.6	918.3	965.9	1018.3	1069.5	1130.5	1180.5	1229.3	1263.4
45°	640.3	654.9	686.6	730.5	782.9	843.9	908.6	976.8	1036.6	1086.6	1124.4
47.5°	498.8	512.2	543.9	590.3	654.9	718.3	785.4	856.1	918.3	967.1	1000.0
50°	393.9	411.0	439.0	487.8	552.5	619.5	689.0	758.5	817.1	858.6	887.8
52.5°	309.8	325.6	352.4	403.7	469.5	536.6	601.2	669.5	720.7	761.0	780.5
55°	240.2	254.9	282.9	325.6	387.8	453.7	518.3	576.9	624.4	653.7	672.0
57.5°	182.9	193.9	213.4	256.1	312.2	373.2	428.1	486.6	523.2	543.9	556.1
60°	139.0	147.6	168.3	201.2	252.4	304.9	351.2	395.1	424.4	441.5	453.7
62.5°	104.9	114.6	129.3	157.3	196.3	239.0	278.0	311.0	335.4	346.4	354.9
65°	71.9	79.3	90.3	112.2	145.1	175.6	206.1	230.5	246.4	258.6	263.4
67.5°	53.7	58.5	64.7	81.7	104.9	129.3	150.0	167.1	184.2	189.0	197.6
70°	40.3	43.9	50.0	62.2	75.6	92.7	109.8	119.5	131.7	140.2	142.7
72.5°	25.6	26.8	32.9	40.3	51.2	62.2	73.2	81.7	89.0	93.9	96.3
75°	14.7	21.9	21.9	29.3	36.6	41.5	48.8	54.9	58.5	62.2	62.2
77.5°	9.7	13.4	14.7	18.3	21.9	28.1	34.1	37.8	41.5	42.7	42.7
80°	8.5	9.7	9.7	13.4	15.9	20.7	24.4	25.6	28.1	29.3	31.7
82.5°	3.7	4.9	6.1	9.7	11.0	11.0	14.7	15.9	18.3	19.5	19.5
85°	1.2	2.5	2.5	3.7	6.1	7.3	8.5	9.7	11.0	11.0	12.2
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	4.9	4.9	4.9	7.3	7.3
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: P245903

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2475.6	2476.8	2472.0	2470.8	2468.3	2469.5	2472.0
5°	2430.5	2431.7	2426.8	2422.0	2422.0	2420.7	2422.0
7.5°	2387.8	2389.0	2381.7	2379.3	2374.4	2375.6	2375.6
10°	2345.1	2345.1	2334.2	2332.9	2329.3	2328.1	2328.1
12.5°	2303.7	2300.0	2291.5	2286.6	2289.0	2281.7	2281.7
15°	2267.1	2261.0	2250.0	2246.3	2240.3	2237.8	2237.8
17.5°	2229.3	2224.4	2214.7	2207.3	2200.0	2198.8	2200.0
20°	2192.7	2187.8	2175.6	2170.7	2164.7	2164.7	2162.2
22.5°	2156.1	2151.2	2140.3	2136.6	2128.1	2128.1	2129.3
25°	2118.3	2114.6	2102.4	2100.0	2098.8	2093.9	2096.3
27.5°	2067.1	2064.6	2054.9	2051.2	2046.3	2045.1	2047.6
30°	1973.2	1969.5	1962.2	1958.6	1950.0	1951.2	1953.6
32.5°	1856.1	1851.2	1841.4	1837.8	1830.5	1828.0	1829.3
35°	1709.8	1706.1	1697.6	1697.6	1690.3	1687.8	1690.3
37.5°	1561.0	1564.6	1561.0	1564.6	1561.0	1559.7	1561.0
40°	1420.8	1434.2	1436.6	1450.0	1445.1	1452.4	1451.2
42.5°	1286.6	1308.5	1317.1	1328.0	1325.6	1330.5	1334.2
45°	1151.2	1169.5	1178.1	1185.4	1186.6	1189.0	1190.3
47.5°	1023.1	1037.8	1039.0	1047.5	1046.3	1046.3	1050.0
50°	903.7	913.4	915.8	922.0	917.1	914.6	915.8
52.5°	792.7	802.4	800.0	802.4	796.4	793.9	795.1
55°	679.3	684.1	684.1	684.1	676.8	676.8	676.8
57.5°	563.4	564.7	562.2	563.4	562.2	554.9	553.7
60°	457.3	457.3	456.1	457.3	453.7	450.0	450.0
62.5°	357.3	359.8	364.6	359.8	357.3	359.8	356.1
65°	267.1	272.0	270.7	273.2	272.0	272.0	269.5
67.5°	201.2	202.4	203.6	204.9	204.9	204.9	204.9
70°	147.6	151.2	150.0	150.0	150.0	150.0	157.3
72.5°	98.8	103.7	102.5	104.9	104.9	107.3	104.9
75°	67.1	71.9	69.5	73.2	71.9	69.5	75.6
77.5°	45.1	47.6	48.8	50.0	48.8	47.6	48.8
80°	31.7	34.1	32.9	34.1	34.1	34.1	35.4
82.5°	19.5	23.2	21.9	23.2	21.9	23.2	23.2
85°	13.4	14.7	12.2	14.7	13.4	13.4	15.9
87.5°	8.5	7.3	7.3	8.5	7.3	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)