

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: P248958

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248958
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: LSR8B80D010 EC8B809727 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4453.0 lumens
Efficiency: N/A
Efficacy: 59.9 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

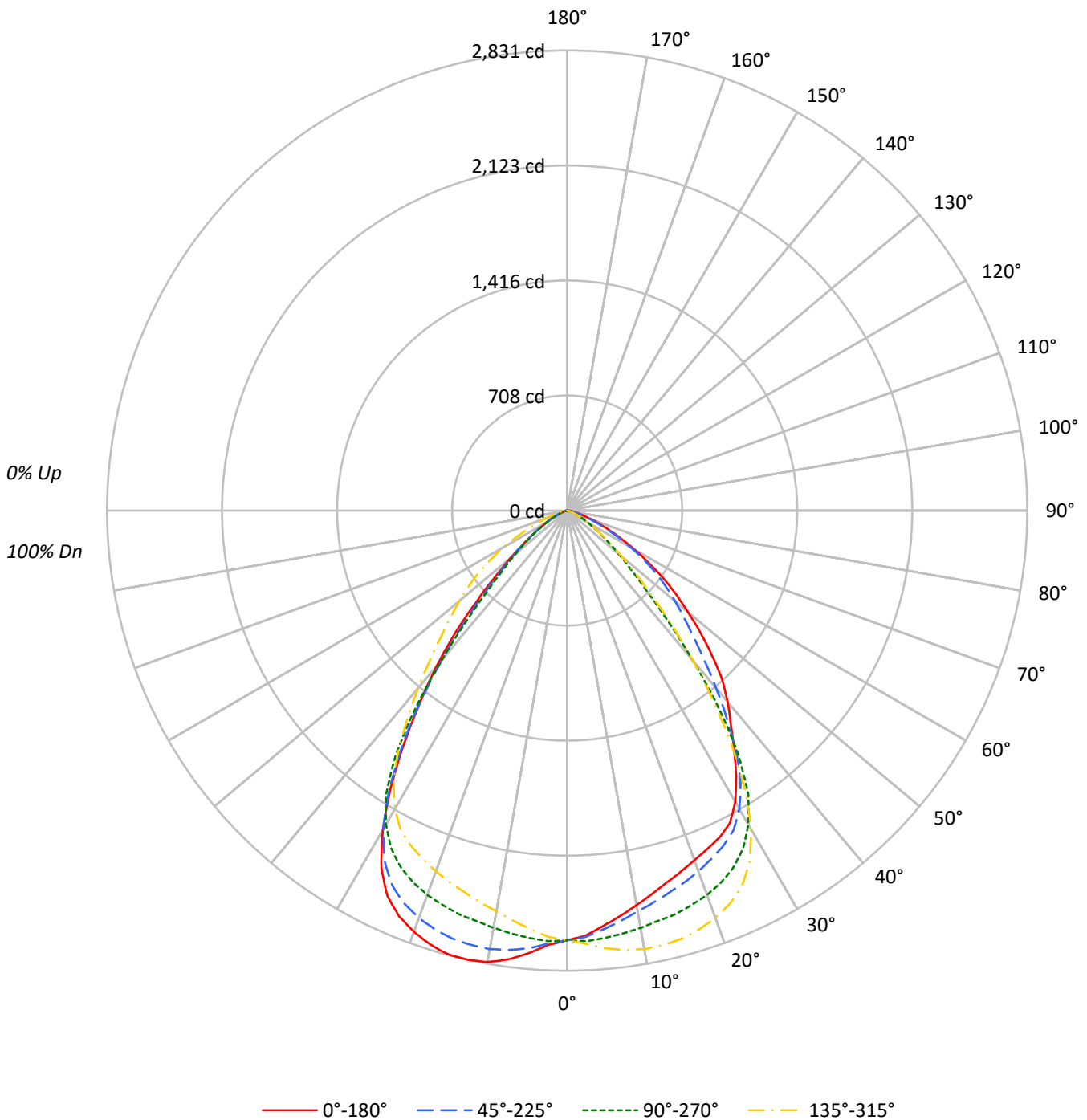
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	251.6	5.7
10°-20°	728.6	16.4
20°-30°	1103.3	24.8
30°-40°	1105.8	24.8
40°-50°	694.4	15.6
50°-60°	370.0	8.3
60°-70°	152.2	3.4
70°-80°	40.2	0.9
80°-90°	6.8	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°	2083.6	46.8
0°-40°	3189.4	71.6
0°-60°	4253.8	95.5
0°-90°	4453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4453.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2644	2644	2644	2644	2644	
5°	2564	2640	2734	2640	2564	242
15°	2369	2571	2827	2571	2369	670
25°	2219	2422	2616	2422	2219	1018
35°	1789	1839	1745	1839	1789	1121
45°	1260	674	780	674	1260	969
55°	716	249	263	249	716	639
65°	285	76	70	76	285	296
75°	80	16	13	16	80	91
85°	17	0	1	0	17	18
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°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2616.5	2613.9	2612.6	2615.2	2616.5	2621.7	2620.4	2622.9	2622.9	2624.3	2626.8
5°	2563.6	2562.3	2563.6	2563.6	2568.7	2573.9	2572.6	2576.5	2579.1	2585.5	2588.1
7.5°	2514.5	2514.5	2513.2	2518.4	2521.0	2528.7	2527.4	2533.9	2537.8	2544.2	2553.2
10°	2464.2	2464.2	2465.5	2469.3	2470.7	2482.2	2482.2	2491.3	2496.4	2502.9	2514.5
12.5°	2415.1	2415.1	2422.9	2420.3	2425.4	2434.5	2438.4	2447.4	2455.1	2468.1	2479.7
15°	2368.7	2368.7	2371.3	2377.7	2381.6	2393.2	2399.6	2410.0	2419.0	2431.9	2448.7
17.5°	2328.6	2327.4	2328.6	2336.4	2344.2	2354.5	2359.6	2372.5	2381.6	2398.4	2413.9
20°	2288.6	2291.2	2291.2	2297.7	2302.8	2315.7	2320.9	2335.1	2345.4	2360.9	2379.0
22.5°	2253.8	2252.5	2252.5	2261.5	2265.4	2277.0	2282.2	2295.1	2306.7	2319.6	2336.4
25°	2218.9	2216.3	2221.5	2222.8	2225.4	2238.3	2242.1	2251.2	2262.8	2274.4	2291.2
27.5°	2167.3	2164.7	2166.0	2171.2	2175.0	2185.3	2188.0	2197.0	2206.0	2216.3	2230.6
30°	2067.9	2065.3	2064.0	2073.1	2077.0	2084.7	2088.5	2104.1	2106.6	2118.2	2128.5
32.5°	1936.2	1934.9	1937.5	1945.2	1949.1	1959.5	1964.6	1973.7	1980.1	1986.6	1996.9
35°	1789.1	1786.5	1789.1	1796.9	1796.9	1805.9	1809.8	1813.6	1812.3	1813.6	1811.0
37.5°	1652.3	1651.0	1652.3	1656.1	1652.3	1656.1	1652.3	1644.5	1630.3	1614.8	1599.3
40°	1536.1	1537.4	1529.7	1534.8	1520.6	1518.0	1503.8	1484.4	1456.1	1425.1	1381.2
42.5°	1412.2	1408.3	1403.1	1405.7	1394.1	1385.0	1361.8	1337.3	1301.1	1249.5	1196.6
45°	1259.9	1258.6	1256.0	1254.7	1246.9	1237.9	1218.5	1190.1	1150.1	1097.2	1033.9
47.5°	1111.4	1107.5	1107.5	1108.8	1099.8	1098.5	1083.0	1058.5	1023.6	972.0	906.2
50°	969.4	968.1	970.7	975.9	969.4	966.8	956.5	939.7	908.8	864.9	802.9
52.5°	841.6	840.3	842.9	849.4	846.8	849.4	839.1	826.1	805.5	762.9	708.7
55°	716.4	716.4	716.4	724.1	724.1	724.1	719.0	711.3	691.9	660.9	610.6
57.5°	586.0	587.3	595.1	596.3	595.1	597.7	596.3	588.6	575.7	553.8	515.1
60°	476.3	476.3	480.2	484.1	482.8	484.1	484.1	480.2	467.3	449.2	418.3
62.5°	376.9	380.8	378.2	380.8	385.9	380.8	378.2	375.6	366.6	355.0	329.1
65°	285.3	287.9	287.9	289.1	286.5	287.9	282.7	278.8	273.7	260.8	244.0
67.5°	216.9	216.9	216.9	216.9	215.6	214.3	213.0	209.1	200.1	194.9	176.8
70°	166.5	158.8	158.8	158.8	158.8	160.1	156.2	151.1	148.4	139.4	126.5
72.5°	111.0	113.6	111.0	111.0	108.4	109.7	104.6	102.0	99.4	94.3	86.5
75°	80.0	73.6	76.1	77.5	73.6	76.1	71.0	65.8	65.8	62.0	58.1
77.5°	51.6	50.4	51.6	52.9	51.6	50.4	47.8	45.2	45.2	43.9	40.0
80°	37.5	36.1	36.1	36.1	34.9	36.1	33.6	33.6	31.0	29.7	27.1
82.5°	24.5	24.5	23.2	24.5	23.2	24.5	20.7	20.7	20.7	19.3	16.8
85°	16.8	14.2	14.2	15.5	12.9	15.5	14.2	12.9	11.6	11.6	10.3
87.5°	7.8	9.0	7.8	9.0	7.8	7.8	9.0	7.8	7.8	5.2	5.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2630.7	2632.0	2632.0	2637.2	2639.7	2641.0	2641.0	2651.4	2647.5	2650.1	2652.6
5°	2593.3	2601.0	2603.6	2603.6	2617.8	2622.9	2628.1	2639.7	2641.0	2648.8	2657.8
7.5°	2557.1	2566.1	2571.3	2582.9	2592.0	2601.0	2616.5	2624.3	2632.0	2642.3	2653.9
10°	2522.3	2532.6	2542.9	2552.0	2566.1	2577.8	2588.1	2606.1	2615.2	2629.4	2644.9
12.5°	2488.7	2502.9	2511.9	2527.4	2542.9	2553.2	2568.7	2585.5	2599.7	2613.9	2632.0
15°	2459.0	2475.8	2486.1	2502.9	2519.7	2533.9	2550.7	2571.3	2581.7	2598.4	2615.2
17.5°	2426.7	2444.8	2457.8	2473.2	2493.9	2509.3	2523.6	2544.2	2557.1	2575.2	2594.6
20°	2393.2	2411.3	2426.7	2442.2	2462.9	2478.4	2495.2	2515.8	2530.0	2548.1	2563.6
22.5°	2353.2	2370.0	2386.7	2404.8	2425.4	2438.4	2457.8	2475.8	2491.3	2508.1	2523.6
25°	2301.5	2322.2	2335.1	2351.9	2368.7	2382.8	2403.5	2421.6	2434.5	2450.0	2464.2
27.5°	2240.9	2256.4	2266.7	2280.9	2297.7	2310.6	2326.0	2344.2	2357.1	2371.3	2381.6
30°	2137.6	2151.8	2160.9	2171.2	2188.0	2199.6	2212.5	2229.2	2238.3	2248.6	2257.7
32.5°	2002.0	2013.7	2018.8	2026.6	2038.2	2049.8	2060.2	2074.4	2078.2	2084.7	2084.7
35°	1805.9	1808.4	1807.2	1809.8	1814.9	1821.3	1830.4	1839.4	1844.6	1844.6	1840.7
37.5°	1576.1	1560.6	1543.8	1530.9	1527.0	1524.4	1529.7	1533.5	1538.7	1541.2	1534.8
40°	1337.3	1302.5	1265.0	1231.4	1208.2	1197.9	1194.0	1196.6	1196.6	1205.6	1205.6
42.5°	1132.1	1077.8	1022.4	972.0	938.4	912.6	901.0	901.0	902.3	908.8	912.6
45°	961.7	893.2	828.7	773.2	726.7	693.2	677.7	673.8	672.5	675.1	684.1
47.5°	831.3	760.3	693.2	624.8	575.7	542.2	528.0	522.8	517.6	522.8	524.1
50°	729.3	655.7	584.8	516.3	464.7	435.0	416.9	409.2	407.9	407.9	410.5
52.5°	636.4	568.0	497.0	427.3	373.0	344.7	327.9	324.0	318.8	324.0	324.0
55°	548.6	480.2	410.5	344.7	299.4	269.8	254.3	249.1	246.5	250.4	250.4
57.5°	453.1	395.0	330.5	271.1	225.9	205.2	193.6	187.2	185.9	188.5	185.9
60°	371.8	322.7	267.2	213.0	178.1	156.2	147.2	144.6	142.0	144.6	144.6
62.5°	294.3	253.0	207.8	166.5	136.8	121.4	111.0	111.0	109.7	109.7	111.0
65°	218.2	185.9	153.6	118.7	95.5	83.9	76.1	76.1	74.9	76.1	74.9
67.5°	158.8	136.8	111.0	86.5	68.4	62.0	56.8	52.9	55.5	52.9	51.6
70°	116.2	98.1	80.0	65.8	52.9	46.5	42.6	41.3	38.7	38.7	38.7
72.5°	77.5	65.8	54.2	42.6	34.9	28.4	27.1	24.5	21.9	23.2	25.8
75°	51.6	43.9	38.7	31.0	23.2	23.2	15.5	15.5	12.9	15.5	11.6
77.5°	36.1	29.7	23.2	19.3	15.5	14.2	10.3	10.3	9.0	9.0	9.0
80°	25.8	21.9	16.8	14.2	10.3	10.3	9.0	7.8	6.4	6.4	7.8
82.5°	15.5	11.6	11.6	10.3	6.4	5.2	3.9	5.2	2.6	2.6	2.6
85°	9.0	7.8	6.4	3.9	2.6	2.6	1.3	0.0	1.3	1.3	0.0
87.5°	5.2	2.6	2.6	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2659.1	2657.8	2660.4	2660.4	2668.2	2666.8	2670.7	2670.7	2668.2	2669.4	2674.6
5°	2668.2	2672.0	2679.7	2686.2	2697.8	2703.0	2709.4	2715.9	2717.2	2721.1	2724.9
7.5°	2668.2	2681.1	2690.1	2701.7	2717.2	2726.2	2740.4	2752.0	2757.2	2763.6	2771.4
10°	2662.9	2675.9	2692.6	2705.6	2724.9	2739.1	2753.3	2771.4	2779.1	2789.5	2799.8
12.5°	2652.6	2666.8	2684.9	2701.7	2723.6	2736.5	2754.6	2771.4	2783.0	2797.2	2808.8
15°	2637.2	2653.9	2670.7	2687.5	2710.7	2726.2	2743.0	2762.4	2774.0	2789.5	2799.8
17.5°	2612.6	2630.7	2646.2	2661.7	2683.6	2701.7	2717.2	2735.3	2746.9	2759.8	2774.0
20°	2582.9	2599.7	2616.5	2629.4	2651.4	2666.8	2683.6	2700.4	2709.4	2712.0	2734.0
22.5°	2545.5	2557.1	2570.0	2590.7	2603.6	2617.8	2633.3	2648.8	2657.8	2672.0	2679.7
25°	2483.5	2495.2	2509.3	2518.4	2533.9	2545.5	2561.0	2577.8	2582.9	2593.3	2601.0
27.5°	2397.1	2403.5	2410.0	2417.7	2426.7	2433.2	2442.2	2450.0	2455.1	2460.3	2465.5
30°	2260.2	2260.2	2260.2	2255.1	2258.9	2262.8	2264.1	2262.8	2262.8	2261.5	2261.5
32.5°	2079.5	2069.2	2057.6	2047.3	2043.4	2038.2	2035.6	2031.7	2025.3	2021.4	2022.7
35°	1835.5	1812.3	1798.1	1785.2	1774.9	1767.1	1763.3	1759.4	1758.1	1753.0	1747.8
37.5°	1530.9	1514.1	1503.8	1496.1	1487.0	1479.3	1480.6	1481.9	1485.7	1483.2	1484.4
40°	1208.2	1204.3	1208.2	1199.2	1196.6	1199.2	1205.6	1214.7	1219.8	1225.0	1234.0
42.5°	919.1	925.5	934.6	934.6	938.4	943.6	951.3	965.6	973.3	982.3	992.7
45°	691.9	699.6	711.3	715.1	717.7	724.1	733.2	744.8	749.9	757.7	766.7
47.5°	533.1	538.3	544.7	551.2	557.6	560.2	569.2	569.2	575.7	580.9	583.4
50°	415.6	420.8	426.0	429.8	432.4	436.3	438.9	442.7	444.0	446.6	447.9
52.5°	325.3	331.8	331.8	334.3	338.2	342.1	340.8	342.1	343.3	343.3	347.2
55°	254.3	254.3	258.2	258.2	260.8	259.4	260.8	260.8	260.8	260.8	262.0
57.5°	189.7	191.1	194.9	192.3	191.1	193.6	191.1	193.6	192.3	194.9	191.1
60°	145.8	145.8	147.2	147.2	148.4	148.4	148.4	147.2	147.2	145.8	145.8
62.5°	109.7	111.0	112.3	111.0	111.0	111.0	109.7	109.7	108.4	107.1	107.1
65°	73.6	72.3	74.9	72.3	73.6	73.6	72.3	73.6	69.7	71.0	69.7
67.5°	52.9	51.6	50.4	51.6	50.4	49.0	49.0	50.4	51.6	47.8	47.8
70°	34.9	36.1	34.9	36.1	37.5	37.5	36.1	34.9	36.1	33.6	34.9
72.5°	21.9	21.9	21.9	21.9	21.9	23.2	23.2	23.2	20.7	20.7	19.3
75°	10.3	14.2	11.6	10.3	14.2	14.2	12.9	12.9	11.6	11.6	11.6
77.5°	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.4	7.8	6.4
80°	5.2	5.2	5.2	3.9	5.2	5.2	6.4	5.2	5.2	3.9	6.4
82.5°	2.6	2.6	2.6	0.0	1.3	2.6	2.6	1.3	2.6	2.6	1.3
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: P248958

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2673.3	2672.0	2673.3	2674.6	2673.3	2672.0	2673.3	2674.6	2669.4	2668.2	2670.7
5°	2730.1	2730.1	2732.7	2734.0	2732.7	2730.1	2730.1	2724.9	2721.1	2717.2	2715.9
7.5°	2779.1	2781.7	2784.3	2785.6	2784.3	2781.7	2779.1	2771.4	2763.6	2757.2	2752.0
10°	2808.8	2812.7	2817.9	2820.4	2817.9	2812.7	2808.8	2799.8	2789.5	2779.1	2771.4
12.5°	2821.8	2825.6	2832.1	2830.8	2832.1	2825.6	2821.8	2808.8	2797.2	2783.0	2771.4
15°	2812.7	2817.9	2824.3	2826.9	2824.3	2817.9	2812.7	2799.8	2789.5	2774.0	2762.4
17.5°	2784.3	2792.1	2795.9	2799.8	2795.9	2792.1	2784.3	2774.0	2759.8	2746.9	2735.3
20°	2745.6	2750.8	2755.9	2757.2	2755.9	2750.8	2745.6	2734.0	2712.0	2709.4	2700.4
22.5°	2690.1	2694.0	2705.6	2701.7	2705.6	2694.0	2690.1	2679.7	2672.0	2657.8	2648.8
25°	2610.0	2613.9	2615.2	2616.5	2615.2	2613.9	2610.0	2601.0	2593.3	2582.9	2577.8
27.5°	2471.9	2471.9	2474.5	2475.8	2474.5	2471.9	2471.9	2465.5	2460.3	2455.1	2450.0
30°	2262.8	2262.8	2262.8	2269.3	2262.8	2262.8	2262.8	2261.5	2261.5	2262.8	2262.8
32.5°	2021.4	2018.8	2016.3	2018.8	2016.3	2018.8	2021.4	2022.7	2021.4	2025.3	2031.7
35°	1747.8	1746.5	1750.4	1745.2	1750.4	1746.5	1747.8	1747.8	1753.0	1758.1	1759.4
37.5°	1485.7	1483.2	1488.3	1483.2	1488.3	1483.2	1485.7	1484.4	1483.2	1485.7	1481.9
40°	1236.6	1239.2	1239.2	1249.5	1239.2	1239.2	1236.6	1234.0	1225.0	1219.8	1214.7
42.5°	997.8	1005.6	1003.0	1010.7	1003.0	1005.6	997.8	992.7	982.3	973.3	965.6
45°	771.9	777.1	777.1	779.6	777.1	777.1	771.9	766.7	757.7	749.9	744.8
47.5°	592.5	592.5	592.5	593.8	592.5	592.5	592.5	583.4	580.9	575.7	569.2
50°	450.5	451.8	453.1	454.4	453.1	451.8	450.5	447.9	446.6	444.0	442.7
52.5°	345.9	347.2	344.7	347.2	344.7	347.2	345.9	347.2	343.3	343.3	342.1
55°	262.0	260.8	262.0	263.3	262.0	260.8	262.0	262.0	260.8	260.8	260.8
57.5°	192.3	189.7	189.7	189.7	189.7	189.7	192.3	191.1	194.9	192.3	193.6
60°	143.3	144.6	144.6	145.8	144.6	144.6	143.3	145.8	145.8	147.2	147.2
62.5°	105.8	109.7	107.1	109.7	107.1	109.7	105.8	107.1	107.1	108.4	109.7
65°	68.4	68.4	68.4	69.7	68.4	68.4	68.4	69.7	71.0	69.7	73.6
67.5°	46.5	47.8	50.4	49.0	50.4	47.8	46.5	47.8	47.8	51.6	50.4
70°	37.5	33.6	33.6	37.5	33.6	33.6	37.5	34.9	33.6	36.1	34.9
72.5°	21.9	19.3	21.9	21.9	21.9	19.3	21.9	19.3	20.7	20.7	23.2
75°	11.6	10.3	9.0	12.9	9.0	10.3	11.6	11.6	11.6	11.6	12.9
77.5°	7.8	6.4	9.0	9.0	9.0	6.4	7.8	6.4	7.8	6.4	7.8
80°	3.9	5.2	3.9	6.4	3.9	5.2	3.9	6.4	3.9	5.2	5.2
82.5°	1.3	2.6	2.6	2.6	2.6	2.6	1.3	1.3	2.6	2.6	1.3
85°	0.0	2.6	1.3	1.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P248958

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2670.7	2666.8	2668.2	2660.4	2660.4	2657.8	2659.1	2652.6	2650.1	2647.5	2651.4
5°	2709.4	2703.0	2697.8	2686.2	2679.7	2672.0	2668.2	2657.8	2648.8	2641.0	2639.7
7.5°	2740.4	2726.2	2717.2	2701.7	2690.1	2681.1	2668.2	2653.9	2642.3	2632.0	2624.3
10°	2753.3	2739.1	2724.9	2705.6	2692.6	2675.9	2662.9	2644.9	2629.4	2615.2	2606.1
12.5°	2754.6	2736.5	2723.6	2701.7	2684.9	2666.8	2652.6	2632.0	2613.9	2599.7	2585.5
15°	2743.0	2726.2	2710.7	2687.5	2670.7	2653.9	2637.2	2615.2	2598.4	2581.7	2571.3
17.5°	2717.2	2701.7	2683.6	2661.7	2646.2	2630.7	2612.6	2594.6	2575.2	2557.1	2544.2
20°	2683.6	2666.8	2651.4	2629.4	2616.5	2599.7	2582.9	2563.6	2548.1	2530.0	2515.8
22.5°	2633.3	2617.8	2603.6	2590.7	2570.0	2557.1	2545.5	2523.6	2508.1	2491.3	2475.8
25°	2561.0	2545.5	2533.9	2518.4	2509.3	2495.2	2483.5	2464.2	2450.0	2434.5	2421.6
27.5°	2442.2	2433.2	2426.7	2417.7	2410.0	2403.5	2397.1	2381.6	2371.3	2357.1	2344.2
30°	2264.1	2262.8	2258.9	2255.1	2260.2	2260.2	2260.2	2257.7	2248.6	2238.3	2229.2
32.5°	2035.6	2038.2	2043.4	2047.3	2057.6	2069.2	2079.5	2084.7	2084.7	2078.2	2074.4
35°	1763.3	1767.1	1774.9	1785.2	1798.1	1812.3	1835.5	1840.7	1844.6	1844.6	1839.4
37.5°	1480.6	1479.3	1487.0	1496.1	1503.8	1514.1	1530.9	1534.8	1541.2	1538.7	1533.5
40°	1205.6	1199.2	1196.6	1199.2	1208.2	1204.3	1208.2	1205.6	1205.6	1196.6	1196.6
42.5°	951.3	943.6	938.4	934.6	934.6	925.5	919.1	912.6	908.8	902.3	901.0
45°	733.2	724.1	717.7	715.1	711.3	699.6	691.9	684.1	675.1	672.5	673.8
47.5°	569.2	560.2	557.6	551.2	544.7	538.3	533.1	524.1	522.8	517.6	522.8
50°	438.9	436.3	432.4	429.8	426.0	420.8	415.6	410.5	407.9	407.9	409.2
52.5°	340.8	342.1	338.2	334.3	331.8	331.8	325.3	324.0	324.0	318.8	324.0
55°	260.8	259.4	260.8	258.2	258.2	254.3	254.3	250.4	250.4	246.5	249.1
57.5°	191.1	193.6	191.1	192.3	194.9	191.1	189.7	185.9	188.5	185.9	187.2
60°	148.4	148.4	148.4	147.2	147.2	145.8	145.8	144.6	144.6	142.0	144.6
62.5°	109.7	111.0	111.0	111.0	112.3	111.0	109.7	111.0	109.7	109.7	111.0
65°	72.3	73.6	73.6	72.3	74.9	72.3	73.6	74.9	76.1	74.9	76.1
67.5°	49.0	49.0	50.4	51.6	50.4	51.6	52.9	51.6	52.9	55.5	52.9
70°	36.1	37.5	37.5	36.1	34.9	36.1	34.9	38.7	38.7	38.7	41.3
72.5°	23.2	23.2	21.9	21.9	21.9	21.9	21.9	25.8	23.2	21.9	24.5
75°	12.9	14.2	14.2	10.3	11.6	14.2	10.3	11.6	15.5	12.9	15.5
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.3	9.0	9.0	9.0	10.3
80°	6.4	5.2	5.2	3.9	5.2	5.2	5.2	7.8	6.4	6.4	7.8
82.5°	2.6	2.6	1.3	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P248958

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2641.0	2641.0	2639.7	2637.2	2632.0	2632.0	2630.7	2626.8	2624.3	2622.9	2622.9
5°	2628.1	2622.9	2617.8	2603.6	2603.6	2601.0	2593.3	2588.1	2585.5	2579.1	2576.5
7.5°	2616.5	2601.0	2592.0	2582.9	2571.3	2566.1	2557.1	2553.2	2544.2	2537.8	2533.9
10°	2588.1	2577.8	2566.1	2552.0	2542.9	2532.6	2522.3	2514.5	2502.9	2496.4	2491.3
12.5°	2568.7	2553.2	2542.9	2527.4	2511.9	2502.9	2488.7	2479.7	2468.1	2455.1	2447.4
15°	2550.7	2533.9	2519.7	2502.9	2486.1	2475.8	2459.0	2448.7	2431.9	2419.0	2410.0
17.5°	2523.6	2509.3	2493.9	2473.2	2457.8	2444.8	2426.7	2413.9	2398.4	2381.6	2372.5
20°	2495.2	2478.4	2462.9	2442.2	2426.7	2411.3	2393.2	2379.0	2360.9	2345.4	2335.1
22.5°	2457.8	2438.4	2425.4	2404.8	2386.7	2370.0	2353.2	2336.4	2319.6	2306.7	2295.1
25°	2403.5	2382.8	2368.7	2351.9	2335.1	2322.2	2301.5	2291.2	2274.4	2262.8	2251.2
27.5°	2326.0	2310.6	2297.7	2280.9	2266.7	2256.4	2240.9	2230.6	2216.3	2206.0	2197.0
30°	2212.5	2199.6	2188.0	2171.2	2160.9	2151.8	2137.6	2128.5	2118.2	2106.6	2104.1
32.5°	2060.2	2049.8	2038.2	2026.6	2018.8	2013.7	2002.0	1996.9	1986.6	1980.1	1973.7
35°	1830.4	1821.3	1814.9	1809.8	1807.2	1808.4	1805.9	1811.0	1813.6	1812.3	1813.6
37.5°	1529.7	1524.4	1527.0	1530.9	1543.8	1560.6	1576.1	1599.3	1614.8	1630.3	1644.5
40°	1194.0	1197.9	1208.2	1231.4	1265.0	1302.5	1337.3	1381.2	1425.1	1456.1	1484.4
42.5°	901.0	912.6	938.4	972.0	1022.4	1077.8	1132.1	1196.6	1249.5	1301.1	1337.3
45°	677.7	693.2	726.7	773.2	828.7	893.2	961.7	1033.9	1097.2	1150.1	1190.1
47.5°	528.0	542.2	575.7	624.8	693.2	760.3	831.3	906.2	972.0	1023.6	1058.5
50°	416.9	435.0	464.7	516.3	584.8	655.7	729.3	802.9	864.9	908.8	939.7
52.5°	327.9	344.7	373.0	427.3	497.0	568.0	636.4	708.7	762.9	805.5	826.1
55°	254.3	269.8	299.4	344.7	410.5	480.2	548.6	610.6	660.9	691.9	711.3
57.5°	193.6	205.2	225.9	271.1	330.5	395.0	453.1	515.1	553.8	575.7	588.6
60°	147.2	156.2	178.1	213.0	267.2	322.7	371.8	418.3	449.2	467.3	480.2
62.5°	111.0	121.4	136.8	166.5	207.8	253.0	294.3	329.1	355.0	366.6	375.6
65°	76.1	83.9	95.5	118.7	153.6	185.9	218.2	244.0	260.8	273.7	278.8
67.5°	56.8	62.0	68.4	86.5	111.0	136.8	158.8	176.8	194.9	200.1	209.1
70°	42.6	46.5	52.9	65.8	80.0	98.1	116.2	126.5	139.4	148.4	151.1
72.5°	27.1	28.4	34.9	42.6	54.2	65.8	77.5	86.5	94.3	99.4	102.0
75°	15.5	23.2	23.2	31.0	38.7	43.9	51.6	58.1	62.0	65.8	65.8
77.5°	10.3	14.2	15.5	19.3	23.2	29.7	36.1	40.0	43.9	45.2	45.2
80°	9.0	10.3	10.3	14.2	16.8	21.9	25.8	27.1	29.7	31.0	33.6
82.5°	3.9	5.2	6.4	10.3	11.6	11.6	15.5	16.8	19.3	20.7	20.7
85°	1.3	2.6	2.6	3.9	6.4	7.8	9.0	10.3	11.6	11.6	12.9
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.2	5.2	5.2	7.8	7.8
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: P248958

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2620.4	2621.7	2616.5	2615.2	2612.6	2613.9	2616.5
5°	2572.6	2573.9	2568.7	2563.6	2563.6	2562.3	2563.6
7.5°	2527.4	2528.7	2521.0	2518.4	2513.2	2514.5	2514.5
10°	2482.2	2482.2	2470.7	2469.3	2465.5	2464.2	2464.2
12.5°	2438.4	2434.5	2425.4	2420.3	2422.9	2415.1	2415.1
15°	2399.6	2393.2	2381.6	2377.7	2371.3	2368.7	2368.7
17.5°	2359.6	2354.5	2344.2	2336.4	2328.6	2327.4	2328.6
20°	2320.9	2315.7	2302.8	2297.7	2291.2	2291.2	2288.6
22.5°	2282.2	2277.0	2265.4	2261.5	2252.5	2252.5	2253.8
25°	2242.1	2238.3	2225.4	2222.8	2221.5	2216.3	2218.9
27.5°	2188.0	2185.3	2175.0	2171.2	2166.0	2164.7	2167.3
30°	2088.5	2084.7	2077.0	2073.1	2064.0	2065.3	2067.9
32.5°	1964.6	1959.5	1949.1	1945.2	1937.5	1934.9	1936.2
35°	1809.8	1805.9	1796.9	1796.9	1789.1	1786.5	1789.1
37.5°	1652.3	1656.1	1652.3	1656.1	1652.3	1651.0	1652.3
40°	1503.8	1518.0	1520.6	1534.8	1529.7	1537.4	1536.1
42.5°	1361.8	1385.0	1394.1	1405.7	1403.1	1408.3	1412.2
45°	1218.5	1237.9	1246.9	1254.7	1256.0	1258.6	1259.9
47.5°	1083.0	1098.5	1099.8	1108.8	1107.5	1107.5	1111.4
50°	956.5	966.8	969.4	975.9	970.7	968.1	969.4
52.5°	839.1	849.4	846.8	849.4	842.9	840.3	841.6
55°	719.0	724.1	724.1	724.1	716.4	716.4	716.4
57.5°	596.3	597.7	595.1	596.3	595.1	587.3	586.0
60°	484.1	484.1	482.8	484.1	480.2	476.3	476.3
62.5°	378.2	380.8	385.9	380.8	378.2	380.8	376.9
65°	282.7	287.9	286.5	289.1	287.9	287.9	285.3
67.5°	213.0	214.3	215.6	216.9	216.9	216.9	216.9
70°	156.2	160.1	158.8	158.8	158.8	158.8	166.5
72.5°	104.6	109.7	108.4	111.0	111.0	113.6	111.0
75°	71.0	76.1	73.6	77.5	76.1	73.6	80.0
77.5°	47.8	50.4	51.6	52.9	51.6	50.4	51.6
80°	33.6	36.1	34.9	36.1	36.1	36.1	37.5
82.5°	20.7	24.5	23.2	24.5	23.2	24.5	24.5
85°	14.2	15.5	12.9	15.5	14.2	14.2	16.8
87.5°	9.0	7.8	7.8	9.0	7.8	9.0	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)