

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: P249613

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5163.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

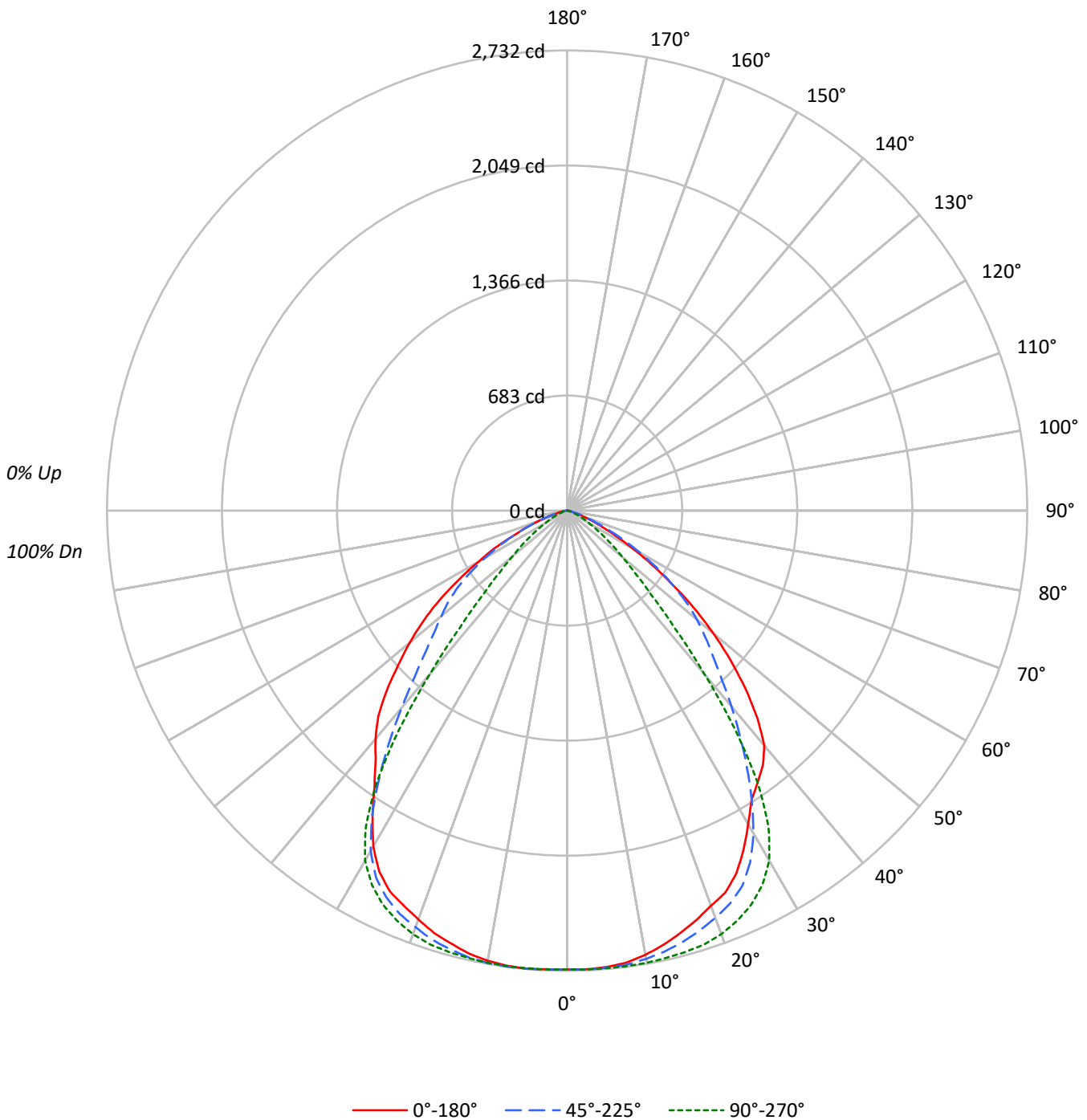
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	260.0	5.0
10°-20°	755.1	14.6
20°-30°	1146.0	22.2
30°-40°	1203.7	23.3
40°-50°	902.4	17.5
50°-60°	579.0	11.2
60°-70°	247.7	4.8
70°-80°	58.5	1.1
80°-90°	10.9	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°	2161.1	41.9
0°-40°	3364.8	65.2
0°-60°	4846.2	93.9
0°-90°	5163.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5163.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2724	2724	2724	2724	2724	
5°	2720	2724	2727	2732	2730	258
15°	2597	2651	2713	2695	2661	733
25°	2376	2460	2584	2537	2493	1086
35°	1971	1862	1973	1949	1993	1237
45°	1497	1224	703	1189	1518	1147
55°	758	758	262	790	923	687
65°	228	269	83	347	352	244
75°	35	41	12	70	69	51
85°	12	7	6	12	16	12
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°	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3
2.5°	2725.7	2728.6	2727.2	2727.2	2725.7	2727.2	2727.2	2730.2	2730.2	2727.2	2725.7
5°	2719.9	2722.8	2722.8	2719.9	2719.9	2727.2	2722.8	2725.7	2725.7	2724.3	2724.3
7.5°	2706.8	2706.8	2712.6	2708.2	2708.2	2712.6	2711.1	2714.1	2717.0	2718.4	2718.4
10°	2677.5	2680.4	2681.9	2681.9	2683.3	2687.7	2690.6	2696.5	2699.4	2702.4	2703.9
12.5°	2641.0	2645.3	2646.8	2645.3	2649.7	2655.5	2662.8	2670.2	2674.6	2680.4	2684.8
15°	2597.0	2597.0	2599.9	2604.4	2607.3	2616.1	2623.4	2632.1	2643.9	2651.2	2658.5
17.5°	2548.8	2551.7	2556.1	2556.1	2561.9	2576.6	2581.0	2594.1	2607.3	2614.6	2629.2
20°	2496.1	2499.0	2503.4	2506.4	2513.7	2525.4	2534.1	2545.9	2560.5	2573.7	2588.3
22.5°	2455.2	2449.4	2452.3	2455.2	2462.5	2472.8	2483.0	2497.6	2512.3	2525.4	2540.1
25°	2376.2	2377.8	2382.1	2385.0	2393.8	2402.5	2414.3	2431.8	2445.0	2459.6	2475.6
27.5°	2269.5	2270.9	2278.3	2278.3	2285.6	2300.2	2307.5	2322.2	2339.8	2354.3	2373.4
30°	2148.2	2151.1	2151.1	2156.9	2161.3	2168.6	2175.9	2190.5	2199.3	2212.5	2238.7
32.5°	2037.0	2039.9	2038.4	2037.0	2032.6	2031.1	2029.7	2032.6	2035.5	2039.9	2050.1
35°	1971.2	1963.9	1958.1	1947.8	1936.1	1921.5	1908.3	1890.8	1874.6	1861.5	1847.0
37.5°	1908.3	1906.8	1898.1	1883.4	1860.1	1833.7	1803.0	1765.0	1727.0	1686.0	1646.5
40°	1820.6	1816.1	1808.8	1788.4	1762.1	1729.9	1689.0	1642.2	1580.7	1517.8	1453.5
42.5°	1671.4	1672.9	1664.1	1648.0	1623.2	1592.4	1550.0	1498.9	1433.1	1358.4	1275.1
45°	1497.4	1497.4	1494.5	1481.3	1463.8	1438.9	1406.7	1364.4	1300.0	1223.9	1134.8
47.5°	1316.1	1317.5	1313.1	1310.2	1302.9	1286.8	1263.5	1231.3	1185.9	1112.8	1023.6
50°	1131.9	1131.9	1139.2	1137.7	1137.7	1131.9	1121.6	1102.6	1063.2	1004.6	921.2
52.5°	947.6	950.5	954.9	960.7	968.0	979.8	968.0	959.2	934.4	889.1	817.4
55°	757.5	760.4	767.7	778.0	786.7	798.5	801.3	801.3	788.2	757.5	703.3
57.5°	595.1	590.8	596.6	605.5	617.1	628.8	637.5	647.8	646.4	625.9	582.0
60°	447.5	449.0	453.3	462.1	470.8	481.1	492.8	501.5	506.0	495.7	467.9
62.5°	326.1	326.1	331.9	340.7	345.2	359.7	367.0	371.4	375.8	374.3	356.8
65°	228.1	231.0	234.0	238.3	242.7	251.6	255.9	264.7	267.6	269.0	255.9
67.5°	160.9	156.5	159.4	162.3	166.7	172.5	181.4	181.4	185.7	185.7	176.9
70°	102.3	102.3	103.8	108.2	111.1	112.5	115.6	118.4	122.9	121.4	121.4
72.5°	68.7	67.3	68.7	70.2	71.6	76.0	76.0	77.5	80.5	81.9	76.0
75°	35.1	36.5	39.5	38.0	42.4	39.5	40.9	45.3	43.8	40.9	40.9
77.5°	29.3	29.3	29.3	27.8	30.7	30.7	29.3	32.2	30.7	30.7	29.3
80°	20.5	22.0	20.5	18.9	20.5	18.9	18.9	18.9	18.9	18.9	17.5
82.5°	16.1	13.1	14.7	13.1	14.7	14.7	13.1	11.7	11.7	13.1	11.7
85°	11.7	8.7	10.2	10.2	8.7	8.7	8.7	8.7	8.7	7.3	7.3
87.5°	7.3	4.4	4.4	4.4	5.8	5.8	5.8	4.4	5.8	5.8	2.9
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°	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3
2.5°	2728.6	2727.2	2730.2	2728.6	2728.6	2727.2	2728.6	2727.2	2730.2	2724.3	2725.7
5°	2728.6	2725.7	2727.2	2728.6	2730.2	2727.2	2727.2	2727.2	2730.2	2727.2	2728.6
7.5°	2722.8	2721.3	2725.7	2728.6	2727.2	2725.7	2728.6	2727.2	2730.2	2728.6	2731.5
10°	2711.1	2712.6	2715.5	2719.9	2721.3	2722.8	2725.7	2725.7	2730.2	2724.3	2727.2
12.5°	2693.5	2699.4	2706.8	2709.7	2715.5	2715.5	2718.4	2719.9	2722.8	2721.3	2725.7
15°	2671.7	2679.0	2687.7	2695.0	2702.4	2706.8	2711.1	2712.6	2717.0	2712.6	2714.1
17.5°	2645.3	2654.1	2667.2	2676.1	2687.7	2692.1	2697.9	2700.8	2705.3	2702.4	2703.9
20°	2608.8	2619.0	2633.6	2646.8	2654.1	2664.3	2671.7	2676.1	2679.0	2676.1	2677.5
22.5°	2557.6	2572.2	2591.2	2601.4	2616.1	2624.8	2626.3	2636.6	2643.9	2636.6	2639.5
25°	2497.6	2512.3	2526.8	2548.8	2561.9	2572.2	2582.4	2583.9	2591.2	2589.7	2588.3
27.5°	2398.2	2417.2	2442.0	2459.6	2477.2	2493.2	2505.0	2507.8	2515.2	2512.3	2513.7
30°	2262.2	2282.7	2306.1	2333.8	2358.7	2374.7	2389.4	2399.6	2406.9	2402.5	2401.1
32.5°	2069.1	2089.7	2114.5	2142.2	2171.5	2194.9	2212.5	2225.6	2234.4	2231.5	2224.2
35°	1848.4	1854.2	1870.3	1892.2	1917.0	1941.9	1958.1	1972.6	1982.8	1985.9	1985.9
37.5°	1621.8	1602.7	1591.0	1591.0	1605.6	1615.8	1630.5	1639.2	1655.4	1661.2	1665.6
40°	1402.4	1358.4	1317.5	1286.8	1266.4	1264.9	1264.9	1269.3	1283.9	1302.9	1320.4
42.5°	1206.4	1136.2	1073.4	1016.3	975.4	952.0	941.8	943.2	954.9	972.5	1001.6
45°	1049.9	962.2	883.2	814.5	758.9	722.4	704.9	703.3	712.2	732.6	764.7
47.5°	928.5	834.9	745.8	666.8	606.9	567.3	546.9	541.1	546.9	565.9	603.9
50°	827.6	731.1	639.1	557.1	492.8	451.9	432.8	425.5	432.8	449.0	487.0
52.5°	734.0	634.6	548.4	469.4	400.6	365.6	345.2	340.7	345.2	364.1	394.8
55°	625.9	541.1	456.2	377.2	317.4	282.3	266.1	261.8	266.1	283.7	315.9
57.5°	519.1	446.0	371.4	299.8	248.6	217.9	203.2	197.4	207.6	219.4	257.4
60°	419.7	361.2	298.3	235.4	193.0	165.2	153.6	152.1	155.0	169.6	196.0
62.5°	329.0	280.8	231.0	179.9	144.7	133.1	118.4	117.0	119.9	128.7	149.2
65°	236.9	206.2	168.2	131.6	103.8	87.8	81.9	83.4	86.3	92.1	111.1
67.5°	165.2	143.3	117.0	92.1	71.6	64.3	58.5	57.1	58.5	68.7	78.9
70°	111.1	98.0	78.9	70.2	49.8	39.5	40.9	36.5	42.4	42.4	51.1
72.5°	73.1	64.3	52.7	40.9	35.1	27.8	27.8	26.3	29.3	30.7	38.0
75°	38.0	29.3	29.3	20.5	14.7	7.3	13.1	11.7	10.2	11.7	14.7
77.5°	26.3	22.0	20.5	16.1	14.7	11.7	11.7	11.7	11.7	13.1	14.7
80°	16.1	16.1	11.7	10.2	8.7	7.3	8.7	8.7	8.7	8.7	10.2
82.5°	10.2	8.7	8.7	7.3	7.3	5.8	5.8	5.8	5.8	5.8	8.7
85°	8.7	5.8	5.8	4.4	5.8	10.2	4.4	5.8	5.8	5.8	4.4
87.5°	2.9	4.4	4.4	4.4	2.9	1.5	2.9	4.4	4.4	7.3	5.8
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°	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3
2.5°	2728.6	2730.2	2730.2	2728.6	2728.6	2725.7	2731.5	2727.2	2728.6	2734.5	2730.2
5°	2731.5	2733.0	2733.0	2731.5	2731.5	2731.5	2733.0	2733.0	2731.5	2730.2	2733.0
7.5°	2737.5	2736.0	2736.0	2733.0	2733.0	2730.2	2733.0	2728.6	2731.5	2728.6	2733.0
10°	2730.2	2731.5	2730.2	2728.6	2728.6	2727.2	2727.2	2722.8	2724.3	2719.9	2722.8
12.5°	2725.7	2724.3	2724.3	2721.3	2718.4	2715.5	2714.1	2709.7	2709.7	2699.4	2703.9
15°	2714.1	2715.5	2711.1	2705.3	2702.4	2695.0	2692.1	2686.3	2680.4	2673.1	2674.6
17.5°	2703.9	2699.4	2693.5	2687.7	2676.1	2670.2	2664.3	2655.5	2652.6	2643.9	2641.0
20°	2673.1	2670.2	2662.8	2652.6	2645.3	2632.1	2626.3	2617.5	2610.2	2601.4	2597.0
22.5°	2633.6	2630.7	2621.9	2611.7	2599.9	2594.1	2588.3	2572.2	2564.8	2556.1	2554.6
25°	2583.9	2579.5	2570.8	2559.0	2553.2	2537.2	2531.2	2519.6	2516.6	2507.8	2506.4
27.5°	2507.8	2502.0	2491.8	2477.2	2466.9	2456.7	2450.8	2442.0	2439.2	2430.3	2428.9
30°	2393.8	2386.5	2366.0	2360.2	2342.6	2332.4	2332.4	2320.7	2322.2	2316.3	2316.3
32.5°	2214.0	2202.2	2186.2	2174.4	2162.7	2156.9	2156.9	2152.5	2155.5	2155.5	2158.4
35°	1975.5	1959.5	1950.7	1943.4	1943.4	1949.2	1966.8	1971.2	1980.0	1987.3	1993.1
37.5°	1670.0	1668.5	1678.7	1687.6	1709.4	1734.3	1765.0	1791.4	1816.1	1833.7	1851.2
40°	1339.5	1376.0	1405.3	1446.2	1479.8	1528.1	1583.6	1629.0	1671.4	1702.1	1734.3
42.5°	1045.6	1092.3	1153.7	1213.7	1273.7	1339.5	1412.6	1475.5	1531.1	1573.4	1607.1
45°	814.5	878.9	953.4	1029.4	1107.0	1188.8	1264.9	1329.3	1387.7	1431.6	1465.3
47.5°	656.6	726.7	811.6	894.9	982.7	1069.0	1153.7	1209.3	1257.5	1292.6	1323.5
50°	542.5	617.1	706.3	801.3	889.1	975.4	1048.5	1102.6	1142.1	1172.8	1191.7
52.5°	453.3	532.3	627.3	722.4	810.1	889.1	954.9	995.8	1028.0	1049.9	1067.4
55°	374.3	450.4	539.6	628.8	715.1	789.6	843.8	874.5	899.3	912.5	922.7
57.5°	305.6	375.8	457.7	539.6	614.2	675.6	718.0	748.7	760.4	770.7	769.1
60°	239.8	305.6	380.2	450.4	514.8	564.4	595.1	612.7	621.5	625.9	622.9
62.5°	188.7	248.6	305.6	367.0	413.9	456.2	485.5	485.5	489.9	491.3	495.7
65°	140.3	185.7	235.4	280.8	318.8	346.6	362.6	367.0	373.0	371.4	368.5
67.5°	103.8	137.4	174.0	207.6	234.0	251.6	263.2	273.4	272.0	269.0	267.6
70°	71.6	93.6	125.8	146.2	165.2	182.8	185.7	187.2	188.7	190.1	187.2
72.5°	49.8	65.8	83.4	100.9	112.5	119.9	127.2	128.7	128.7	128.7	127.2
75°	24.9	33.6	49.8	57.1	67.3	70.2	76.0	76.0	80.5	74.5	73.1
77.5°	22.0	26.3	35.1	40.9	45.3	49.8	51.1	55.6	54.1	51.1	52.7
80°	13.1	16.1	22.0	24.9	30.7	32.2	33.6	35.1	33.6	35.1	35.1
82.5°	10.2	11.7	14.7	14.7	18.9	18.9	20.5	20.5	22.0	22.0	22.0
85°	5.8	10.2	8.7	17.5	11.7	11.7	14.7	17.5	14.7	14.7	17.5
87.5°	5.8	5.8	4.4	5.8	5.8	5.8	7.3	8.7	8.7	10.2	8.7
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: P249613

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2724.3	2724.3	2724.3	2724.3
2.5°	2728.6	2731.5	2727.2	2725.7
5°	2733.0	2733.0	2730.2	2730.2
7.5°	2733.0	2733.0	2728.6	2725.7
10°	2721.3	2721.3	2717.0	2714.1
12.5°	2699.4	2699.4	2697.9	2693.5
15°	2671.7	2671.7	2665.7	2661.4
17.5°	2633.6	2636.6	2629.2	2629.2
20°	2592.6	2591.2	2585.4	2582.4
22.5°	2550.3	2547.4	2545.9	2537.2
25°	2505.0	2502.0	2497.6	2493.2
27.5°	2427.4	2426.0	2421.6	2415.8
30°	2308.9	2307.5	2301.6	2301.6
32.5°	2155.5	2154.0	2148.2	2149.6
35°	1996.1	2001.9	1999.0	1993.1
37.5°	1863.0	1867.4	1870.3	1867.4
40°	1751.8	1765.0	1766.5	1769.4
42.5°	1633.4	1650.9	1656.8	1659.8
45°	1491.5	1507.6	1520.7	1517.8
47.5°	1346.8	1358.4	1370.2	1361.5
50°	1207.9	1215.2	1219.5	1219.5
52.5°	1076.3	1076.3	1074.8	1076.3
55°	925.6	925.6	919.8	922.7
57.5°	767.7	770.7	766.2	758.9
60°	621.5	614.2	611.3	606.9
62.5°	484.0	484.0	473.8	487.0
65°	362.6	358.3	353.9	352.4
67.5°	263.2	261.8	257.4	255.9
70°	185.7	179.9	178.4	175.4
72.5°	124.3	124.3	121.4	121.4
75°	76.0	68.7	67.3	68.7
77.5°	52.7	51.1	51.1	49.8
80°	35.1	33.6	36.5	32.2
82.5°	22.0	23.4	22.0	23.4
85°	14.7	17.5	16.1	16.1
87.5°	8.7	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)