

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: P248425

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B609730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4827.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

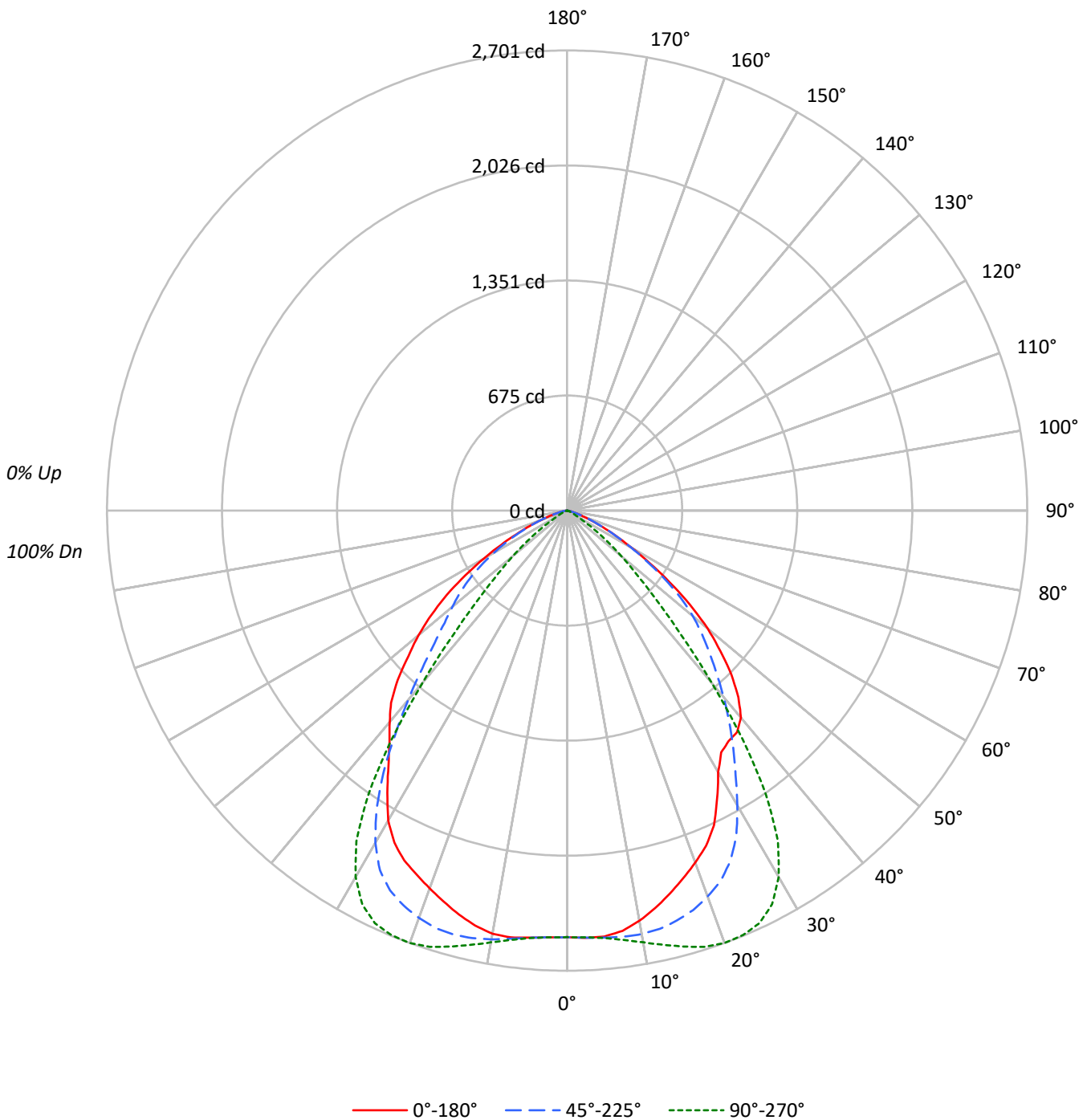
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0LI

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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	240.8	5.0
10°-20°	713.4	14.8
20°-30°	1088.3	22.5
30°-40°	1135.7	23.5
40°-50°	853.1	17.7
50°-60°	524.9	10.9
60°-70°	213.6	4.4
70°-80°	50.3	1.0
80°-90°	6.9	0.1
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°	2042.5	42.3
0°-40°	3178.2	65.8
0°-60°	4556.1	94.4
0°-90°	4827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2504	2504	2504	2504	2504	
5°	2509	2516	2519	2516	2516	237
15°	2327	2491	2649	2576	2455	656
25°	2039	2268	2672	2460	2265	927
35°	1652	1699	2035	1881	1828	1043
45°	1364	1180	736	1099	1406	1040
55°	736	699	193	699	863	662
65°	230	233	29	312	331	240
75°	40	40	5	70	73	48
85°	4	4	1	9	12	6
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°	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1
2.5°	2510.7	2506.7	2510.7	2510.7	2512.1	2509.4	2510.7	2512.1	2509.4	2509.4	2509.4
5°	2509.4	2506.7	2509.4	2508.1	2510.7	2510.7	2513.4	2513.4	2516.0	2516.0	2520.0
7.5°	2488.1	2482.8	2488.1	2492.1	2494.8	2500.1	2506.7	2512.1	2517.4	2522.7	2529.3
10°	2444.3	2444.3	2448.3	2456.2	2464.2	2473.5	2485.5	2498.8	2512.1	2524.0	2536.0
12.5°	2389.8	2385.8	2393.8	2404.4	2416.4	2431.0	2449.6	2469.5	2490.8	2514.7	2533.3
15°	2327.3	2323.3	2332.6	2343.3	2357.9	2379.2	2401.8	2428.3	2458.9	2490.8	2521.4
17.5°	2263.5	2262.2	2271.5	2286.1	2298.1	2320.7	2349.9	2381.8	2416.4	2458.9	2498.8
20°	2198.4	2197.1	2206.4	2218.3	2234.3	2255.5	2284.8	2322.0	2363.2	2411.1	2457.6
22.5°	2130.6	2131.9	2139.9	2153.2	2166.5	2189.1	2219.6	2256.9	2302.1	2353.9	2405.7
25°	2038.9	2032.3	2042.9	2056.2	2078.8	2097.4	2126.6	2166.5	2213.0	2267.5	2328.7
27.5°	1906.0	1904.6	1914.0	1925.9	1945.8	1968.4	2000.3	2041.6	2090.7	2150.5	2210.3
30°	1773.1	1775.7	1779.7	1791.7	1805.0	1827.6	1859.5	1894.0	1940.5	1997.7	2061.5
32.5°	1682.7	1682.7	1688.0	1696.0	1705.3	1717.2	1739.8	1765.1	1801.0	1840.9	1887.4
35°	1652.1	1646.8	1652.1	1653.4	1654.8	1657.4	1661.4	1669.4	1681.3	1698.6	1715.9
37.5°	1638.8	1634.8	1634.8	1629.5	1622.9	1614.9	1604.3	1592.3	1579.0	1561.7	1548.5
40°	1587.0	1584.3	1581.7	1576.4	1561.7	1545.8	1528.5	1500.6	1470.0	1427.5	1385.0
42.5°	1487.3	1484.6	1483.3	1472.7	1459.4	1440.8	1420.8	1391.6	1353.1	1298.6	1237.4
45°	1363.7	1358.4	1354.4	1345.1	1335.8	1319.8	1301.2	1274.6	1236.1	1180.3	1107.2
47.5°	1220.2	1217.5	1216.2	1212.2	1202.9	1193.5	1181.6	1160.3	1125.8	1072.6	996.9
50°	1075.3	1070.0	1072.6	1071.3	1067.3	1060.7	1052.7	1038.1	1011.5	963.6	894.5
52.5°	909.1	909.1	907.8	911.8	913.1	911.8	913.1	897.2	874.6	838.7	780.2
55°	736.3	736.3	740.3	745.7	751.0	752.3	751.0	744.3	728.4	699.1	647.3
57.5°	574.2	571.5	579.5	587.5	592.8	598.1	594.1	588.8	579.5	555.6	515.7
60°	437.3	437.3	442.6	447.9	453.2	458.6	457.2	455.9	447.9	432.0	400.1
62.5°	321.6	323.0	323.0	327.0	332.3	337.6	341.6	337.6	333.6	323.0	301.7
65°	229.9	228.6	229.9	233.9	237.9	243.2	245.9	244.6	240.6	232.6	216.7
67.5°	154.2	152.9	158.2	159.5	162.2	167.5	166.2	167.5	166.2	159.5	146.2
70°	101.0	98.3	101.0	99.7	103.7	105.0	107.6	109.0	107.6	103.7	99.7
72.5°	62.5	61.1	62.5	63.8	65.1	66.4	69.1	69.1	67.8	65.1	59.8
75°	39.9	35.9	37.2	34.6	37.2	37.2	39.9	41.2	39.9	39.9	37.2
77.5°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	25.3	26.6	23.9	22.6
80°	12.0	12.0	13.3	13.3	13.3	14.6	13.3	13.3	13.3	14.6	10.6
82.5°	9.3	8.0	8.0	8.0	9.3	8.0	8.0	8.0	8.0	8.0	8.0
85°	4.0	5.3	4.0	2.7	4.0	4.0	5.3	4.0	4.0	4.0	5.3
87.5°	1.3	1.3	0.0	0.0	0.0	1.3	0.0	1.3	1.3	2.7	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: P248425

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1
2.5°	2510.7	2508.1	2508.1	2506.7	2509.4	2506.7	2508.1	2506.7	2506.7	2509.4	2506.7
5°	2520.0	2521.4	2518.7	2517.4	2521.4	2521.4	2521.4	2518.7	2518.7	2520.0	2518.7
7.5°	2533.3	2536.0	2537.3	2538.6	2541.3	2542.6	2542.6	2541.3	2540.0	2544.0	2538.6
10°	2547.9	2551.9	2559.9	2563.9	2570.6	2570.6	2573.2	2573.2	2570.6	2573.2	2571.9
12.5°	2542.6	2566.6	2579.9	2589.2	2598.5	2606.4	2609.1	2610.4	2609.1	2614.4	2609.1
15°	2551.9	2571.9	2593.2	2609.1	2626.4	2635.7	2638.3	2649.0	2651.6	2653.0	2645.0
17.5°	2537.3	2573.2	2595.8	2619.7	2645.0	2662.3	2678.2	2684.9	2686.2	2688.8	2678.2
20°	2504.1	2544.0	2578.5	2613.1	2642.3	2668.9	2682.2	2700.8	2695.5	2706.1	2691.5
22.5°	2458.9	2504.1	2547.9	2593.2	2623.7	2655.6	2683.5	2696.8	2703.5	2703.5	2687.5
25°	2387.1	2440.3	2488.1	2534.6	2581.2	2619.7	2651.6	2671.6	2675.6	2674.2	2655.6
27.5°	2275.5	2332.6	2388.5	2441.6	2498.8	2544.0	2581.2	2605.1	2611.8	2611.8	2591.8
30°	2121.3	2182.4	2236.9	2300.7	2359.2	2409.7	2461.6	2482.8	2494.8	2494.8	2472.2
32.5°	1937.9	1989.7	2040.2	2102.7	2166.5	2223.6	2272.8	2302.1	2316.7	2315.4	2295.4
35°	1738.5	1763.8	1802.3	1848.8	1906.0	1959.1	2007.0	2034.9	2060.2	2058.8	2040.2
37.5°	1539.1	1532.5	1536.5	1553.8	1589.6	1626.9	1664.1	1690.7	1711.9	1721.2	1717.2
40°	1343.8	1309.2	1276.0	1264.0	1266.7	1280.0	1299.9	1319.8	1343.8	1355.7	1361.0
42.5°	1168.3	1109.8	1051.3	1007.5	982.2	974.3	983.6	990.2	1004.8	1022.1	1039.4
45°	1027.4	949.0	871.9	804.1	761.6	736.3	731.0	736.3	744.3	761.6	784.2
47.5°	911.8	820.1	733.7	657.9	595.4	562.2	552.9	550.3	558.2	574.2	604.7
50°	809.4	717.7	622.0	534.3	469.2	432.0	418.7	413.4	422.7	434.6	462.5
52.5°	697.8	607.4	509.1	424.0	356.2	317.7	303.0	295.1	300.4	316.3	344.2
55°	576.8	493.1	404.1	316.3	251.2	215.3	198.0	192.7	198.0	215.3	243.2
57.5°	455.9	385.4	311.0	228.6	170.1	134.2	116.9	111.6	126.3	132.9	162.2
60°	356.2	299.1	235.3	167.5	116.9	89.0	71.8	67.8	74.4	86.4	110.3
62.5°	267.2	231.3	180.8	119.6	86.4	57.1	47.8	43.9	47.8	57.1	75.8
65°	194.1	166.2	126.3	87.7	58.5	42.5	31.9	29.2	33.2	39.9	55.8
67.5°	132.9	111.6	87.7	61.1	39.9	26.6	22.6	22.6	23.9	29.2	41.2
70°	86.4	73.1	55.8	39.9	26.6	19.9	17.3	14.6	17.3	21.3	27.9
72.5°	54.5	46.5	35.9	27.9	19.9	14.6	12.0	10.6	13.3	15.9	21.3
75°	33.2	25.3	18.6	14.6	10.6	10.6	10.6	5.3	6.6	10.6	13.3
77.5°	19.9	17.3	14.6	12.0	9.3	5.3	5.3	5.3	6.6	8.0	12.0
80°	10.6	9.3	6.6	6.6	5.3	4.0	5.3	4.0	2.7	6.6	8.0
82.5°	6.6	5.3	5.3	5.3	6.6	2.7	4.0	2.7	4.0	5.3	4.0
85°	4.0	4.0	4.0	2.7	6.6	2.7	2.7	1.3	1.3	2.7	2.7
87.5°	0.0	1.3	1.3	0.0	1.3	0.0	1.3	1.3	1.3	1.3	1.3
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: P248425

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1	2504.1
2.5°	2508.1	2506.7	2508.1	2506.7	2506.7	2506.7	2508.1	2508.1	2506.7	2506.7	2509.4
5°	2518.7	2518.7	2518.7	2517.4	2516.0	2516.0	2518.7	2518.7	2514.7	2518.7	2518.7
7.5°	2541.3	2537.3	2541.3	2536.0	2533.3	2534.6	2536.0	2533.3	2530.7	2532.0	2532.0
10°	2570.6	2566.6	2566.6	2562.6	2558.6	2555.9	2553.3	2546.6	2540.0	2538.6	2533.3
12.5°	2605.1	2598.5	2594.5	2586.5	2579.9	2570.6	2562.6	2551.9	2538.6	2529.3	2520.0
15°	2639.7	2629.0	2619.7	2606.4	2591.8	2575.9	2558.6	2541.3	2520.0	2501.4	2485.5
17.5°	2667.6	2653.0	2635.7	2614.4	2593.2	2569.2	2544.0	2518.7	2488.1	2464.2	2445.6
20°	2676.9	2655.6	2633.0	2605.1	2577.2	2544.0	2512.1	2478.8	2444.3	2419.0	2397.8
22.5°	2664.9	2639.7	2611.8	2582.5	2545.3	2509.4	2472.2	2433.6	2403.1	2368.5	2348.6
25°	2631.7	2601.1	2570.6	2536.0	2500.1	2460.2	2420.4	2380.5	2343.3	2324.7	2299.4
27.5°	2563.9	2530.7	2497.4	2461.6	2420.4	2380.5	2339.3	2300.7	2268.8	2243.6	2229.0
30°	2444.3	2405.7	2367.2	2328.7	2292.8	2251.5	2213.0	2181.1	2149.2	2129.3	2114.7
32.5°	2260.8	2226.3	2187.8	2150.5	2117.3	2082.8	2050.9	2022.9	2000.3	1987.0	1976.4
35°	2013.6	1979.1	1949.8	1923.3	1895.3	1880.7	1860.8	1844.8	1835.5	1830.2	1828.9
37.5°	1702.6	1682.7	1673.4	1668.1	1662.7	1658.8	1661.4	1668.1	1673.4	1682.7	1693.3
40°	1370.3	1387.6	1392.9	1411.5	1428.8	1451.4	1476.7	1505.9	1529.8	1560.4	1581.7
42.5°	1067.3	1099.2	1136.4	1176.3	1218.8	1260.0	1310.5	1357.0	1399.6	1438.1	1471.3
45°	820.1	869.2	925.1	982.2	1039.4	1099.2	1160.3	1217.5	1268.0	1309.2	1343.8
47.5°	639.3	693.8	765.6	836.0	905.1	975.6	1043.4	1103.2	1145.7	1185.6	1216.2
50°	506.4	568.9	647.3	728.4	804.1	878.5	950.3	1006.2	1048.7	1080.6	1103.2
52.5°	392.1	466.5	546.3	631.3	712.4	793.5	859.9	911.8	946.4	974.3	991.5
55°	292.4	365.5	450.6	538.3	620.7	699.1	761.6	806.8	837.4	853.3	862.6
57.5°	211.3	277.8	362.8	450.6	525.0	599.4	649.9	691.2	708.4	717.7	721.7
60°	154.2	215.3	291.1	366.8	437.3	497.1	541.0	568.9	582.2	587.5	586.1
62.5°	113.0	166.2	231.3	295.1	352.2	401.4	436.0	454.6	461.2	463.9	459.9
65°	86.4	127.6	183.4	232.6	276.5	312.3	337.6	349.6	353.5	352.2	349.6
67.5°	63.8	95.7	136.9	174.1	206.0	233.9	247.2	257.9	260.5	256.5	252.5
70°	45.2	70.4	99.7	124.9	148.9	164.8	179.4	180.8	180.8	179.4	176.8
72.5°	31.9	49.2	67.8	85.1	99.7	111.6	116.9	120.9	119.6	118.3	115.6
75°	21.3	30.6	49.2	53.2	66.4	70.4	75.8	75.8	77.1	73.1	73.1
77.5°	13.3	21.3	29.2	34.6	39.9	45.2	47.8	47.8	49.2	47.8	47.8
80°	8.0	13.3	15.9	23.9	23.9	27.9	29.2	30.6	27.9	31.9	27.9
82.5°	5.3	8.0	12.0	12.0	14.6	17.3	17.3	18.6	18.6	17.3	17.3
85°	4.0	5.3	6.6	8.0	8.0	9.3	8.0	8.0	9.3	10.6	9.3
87.5°	1.3	2.7	1.3	2.7	2.7	5.3	4.0	4.0	4.0	5.3	5.3
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: P248425

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2504.1	2504.1	2504.1	2504.1
2.5°	2506.7	2508.1	2506.7	2506.7
5°	2518.7	2517.4	2518.7	2516.0
7.5°	2528.0	2528.0	2526.7	2526.7
10°	2528.0	2522.7	2522.7	2522.7
12.5°	2508.1	2501.4	2497.4	2494.8
15°	2473.5	2461.6	2456.2	2454.9
17.5°	2428.3	2417.7	2411.1	2407.1
20°	2376.5	2365.9	2357.9	2359.2
22.5°	2331.3	2319.4	2314.0	2311.4
25°	2286.1	2271.5	2267.5	2264.8
27.5°	2213.0	2205.0	2201.0	2197.1
30°	2101.4	2097.4	2090.7	2100.0
32.5°	1972.4	1965.8	1960.5	1964.5
35°	1830.2	1826.2	1830.2	1827.6
37.5°	1700.0	1703.9	1709.3	1711.9
40°	1597.6	1612.2	1617.6	1620.2
42.5°	1495.3	1512.6	1523.2	1529.8
45°	1369.0	1386.3	1398.2	1406.2
47.5°	1238.8	1253.4	1265.3	1264.0
50°	1120.5	1128.4	1133.7	1139.1
52.5°	1000.8	1000.8	1002.2	1002.2
55°	865.3	862.6	861.3	862.6
57.5°	716.4	713.8	712.4	708.4
60°	580.8	572.9	567.5	567.5
62.5°	454.6	445.3	441.3	440.0
65°	341.6	340.2	332.3	330.9
67.5°	247.2	241.9	236.6	237.9
70°	174.1	166.2	166.2	163.5
72.5°	113.0	109.0	107.6	107.6
75°	70.4	70.4	67.8	73.1
77.5°	46.5	46.5	45.2	46.5
80°	27.9	27.9	27.9	26.6
82.5°	17.3	18.6	17.3	17.3
85°	9.3	10.6	8.0	12.0
87.5°	5.3	6.6	5.3	6.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)