

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: P249289

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249289
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 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194.7 lumens
Efficiency: N/A
Efficacy: 87.3 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

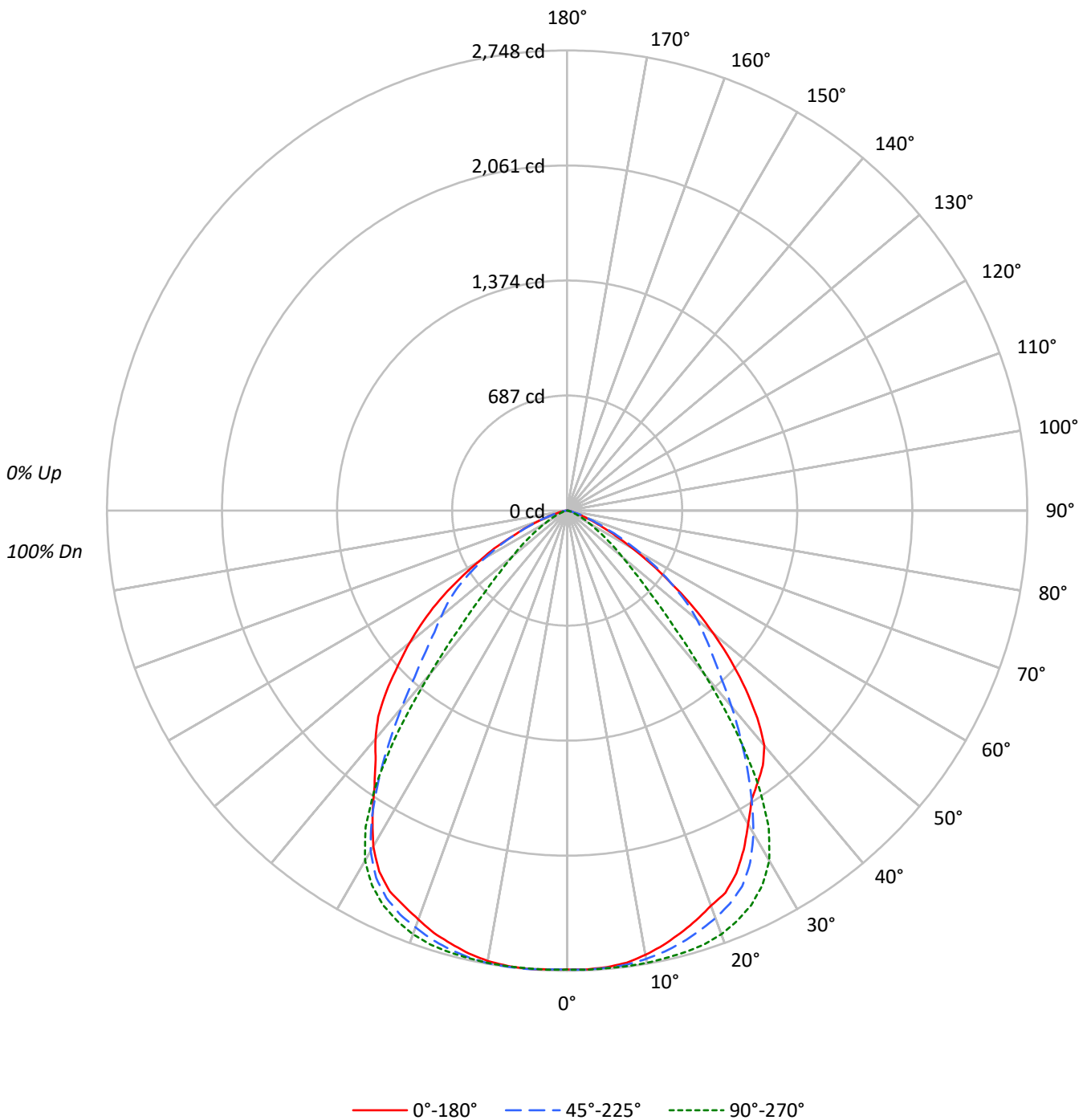
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	261.6	5.0
10°-20°	759.6	14.6
20°-30°	1153.0	22.2
30°-40°	1211.0	23.3
40°-50°	907.9	17.5
50°-60°	582.5	11.2
60°-70°	249.2	4.8
70°-80°	58.9	1.1
80°-90°	11.0	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°	2174.2	41.9
0°-40°	3385.2	65.2
0°-60°	4875.7	93.9
0°-90°	5194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2741	2741	2741	2741	2741	
5°	2736	2741	2744	2748	2747	260
15°	2613	2667	2729	2712	2678	737
25°	2391	2475	2600	2552	2508	1092
35°	1983	1873	1985	1961	2005	1245
45°	1506	1231	708	1196	1527	1154
55°	762	762	263	794	928	691
65°	230	271	84	349	355	245
75°	35	41	12	71	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°	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2742.3	2745.2	2743.8	2743.8	2742.3	2743.8	2743.8	2746.8	2746.8	2743.8	2742.3
5°	2736.4	2739.4	2739.4	2736.4	2736.4	2743.8	2739.4	2742.3	2742.3	2740.8	2740.8
7.5°	2723.2	2723.2	2729.1	2724.7	2724.7	2729.1	2727.6	2730.5	2733.4	2735.0	2735.0
10°	2693.8	2696.7	2698.1	2698.1	2699.7	2704.1	2707.0	2712.9	2715.8	2718.8	2720.2
12.5°	2657.0	2661.4	2662.8	2661.4	2665.9	2671.7	2679.1	2686.4	2690.8	2696.7	2701.2
15°	2612.8	2612.8	2615.7	2620.2	2623.1	2632.0	2639.3	2648.1	2659.9	2667.3	2674.6
17.5°	2564.3	2567.2	2571.7	2571.7	2577.5	2592.2	2596.7	2609.9	2623.1	2630.5	2645.2
20°	2511.4	2514.3	2518.7	2521.7	2529.0	2540.7	2549.6	2561.4	2576.1	2589.3	2604.0
22.5°	2470.1	2464.3	2467.2	2470.1	2477.5	2487.8	2498.1	2512.8	2527.5	2540.7	2555.4
25°	2390.6	2392.2	2396.6	2399.5	2408.4	2417.2	2429.0	2446.6	2459.8	2474.6	2490.7
27.5°	2283.3	2284.8	2292.1	2292.1	2299.5	2314.2	2321.5	2336.3	2353.9	2368.6	2387.7
30°	2161.2	2164.1	2164.1	2170.0	2174.4	2181.8	2189.1	2203.9	2212.6	2226.0	2252.4
32.5°	2049.4	2052.3	2050.9	2049.4	2044.9	2043.5	2042.0	2044.9	2048.0	2052.3	2062.6
35°	1983.2	1975.8	1969.9	1959.6	1947.8	1933.2	1919.9	1902.2	1886.1	1872.9	1858.2
37.5°	1919.9	1918.5	1909.6	1894.9	1871.4	1844.8	1814.0	1775.8	1737.4	1696.3	1656.6
40°	1831.6	1827.2	1819.8	1799.3	1772.7	1740.5	1699.2	1652.1	1590.4	1527.1	1462.3
42.5°	1681.6	1683.1	1674.2	1658.1	1633.1	1602.1	1559.4	1508.0	1441.8	1366.7	1282.9
45°	1506.5	1506.5	1503.6	1490.3	1472.7	1447.7	1415.3	1372.7	1307.9	1231.4	1141.6
47.5°	1324.1	1325.6	1321.1	1318.2	1310.8	1294.6	1271.1	1238.7	1193.2	1119.5	1029.9
50°	1138.7	1138.7	1146.1	1144.5	1144.5	1138.7	1128.4	1109.2	1069.5	1010.7	926.8
52.5°	953.3	956.3	960.7	966.5	973.9	985.7	973.9	965.1	940.1	894.4	822.4
55°	762.1	765.0	772.4	782.7	791.5	803.3	806.2	806.2	793.0	762.1	707.7
57.5°	598.8	594.4	600.3	609.0	620.8	632.6	641.4	651.7	650.3	629.7	585.5
60°	450.2	451.7	456.0	464.9	473.7	484.0	495.8	504.6	509.0	498.7	470.8
62.5°	328.1	328.1	333.9	342.8	347.2	362.0	369.3	373.7	378.1	376.7	358.9
65°	229.5	232.4	235.4	239.8	244.2	253.0	257.5	266.2	269.3	270.7	257.5
67.5°	161.9	157.4	160.4	163.3	167.7	173.6	182.4	182.4	186.9	186.9	178.0
70°	103.0	103.0	104.5	108.8	111.8	113.3	116.2	119.2	123.5	122.1	122.1
72.5°	69.2	67.7	69.2	70.6	72.1	76.5	76.5	78.0	80.9	82.4	76.5
75°	35.3	36.8	39.7	38.2	42.7	39.7	41.1	45.6	44.2	41.1	41.1
77.5°	29.4	29.4	29.4	28.0	30.9	30.9	29.4	32.4	30.9	30.9	29.4
80°	20.6	22.1	20.6	19.2	20.6	19.2	19.2	19.2	19.2	19.2	17.6
82.5°	16.1	13.2	14.7	13.2	14.7	14.7	13.2	11.8	11.8	13.2	11.8
85°	11.8	8.9	10.3	10.3	8.9	8.9	8.9	8.9	8.9	7.4	7.4
87.5°	7.4	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°	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2745.2	2743.8	2746.8	2745.2	2745.2	2743.8	2745.2	2743.8	2746.8	2740.8	2742.3
5°	2745.2	2742.3	2743.8	2745.2	2746.8	2743.8	2743.8	2743.8	2746.8	2743.8	2745.2
7.5°	2739.4	2737.9	2742.3	2745.2	2743.8	2742.3	2745.2	2743.8	2746.8	2745.2	2748.1
10°	2727.6	2729.1	2732.0	2736.4	2737.9	2739.4	2742.3	2742.3	2746.8	2740.8	2743.8
12.5°	2709.9	2715.8	2723.2	2726.2	2732.0	2732.0	2735.0	2736.4	2739.4	2737.9	2742.3
15°	2687.9	2695.2	2704.1	2711.5	2718.8	2723.2	2727.6	2729.1	2733.4	2729.1	2730.5
17.5°	2661.4	2670.2	2683.4	2692.3	2704.1	2708.4	2714.4	2717.3	2721.7	2718.8	2720.2
20°	2624.6	2634.9	2649.6	2662.8	2670.2	2680.5	2687.9	2692.3	2695.2	2692.3	2693.8
22.5°	2573.1	2587.8	2607.0	2617.2	2632.0	2640.7	2642.3	2652.6	2659.9	2652.6	2655.5
25°	2512.8	2527.5	2542.2	2564.3	2577.5	2587.8	2598.1	2599.6	2607.0	2605.4	2604.0
27.5°	2412.7	2431.9	2456.9	2474.6	2492.2	2508.3	2520.1	2523.0	2530.4	2527.5	2529.0
30°	2276.0	2296.6	2320.1	2348.0	2373.0	2389.2	2404.0	2414.2	2421.6	2417.2	2415.8
32.5°	2081.7	2102.3	2127.3	2155.3	2184.7	2208.3	2226.0	2239.2	2247.9	2245.0	2237.7
35°	1859.6	1865.5	1881.7	1903.8	1928.7	1953.8	1969.9	1984.6	1994.9	1997.8	1997.8
37.5°	1631.6	1612.4	1600.7	1600.7	1615.4	1625.7	1640.4	1649.2	1665.4	1671.3	1675.7
40°	1410.9	1366.7	1325.6	1294.6	1274.0	1272.6	1272.6	1276.9	1291.7	1310.8	1328.5
42.5°	1213.7	1143.1	1079.9	1022.5	981.3	957.8	947.5	948.9	960.7	978.3	1007.8
45°	1056.3	968.1	888.6	819.5	763.5	726.7	709.1	707.7	716.4	737.1	769.5
47.5°	934.2	840.1	750.3	670.8	610.6	570.8	550.2	544.4	550.2	569.4	607.6
50°	832.7	735.6	642.9	560.5	495.8	454.6	435.5	428.1	435.5	451.7	489.9
52.5°	738.5	638.5	551.8	472.3	403.1	367.8	347.2	342.8	347.2	366.3	397.3
55°	629.7	544.4	459.0	379.6	319.3	283.9	267.8	263.3	267.8	285.4	317.8
57.5°	522.3	448.7	373.7	301.5	250.1	219.2	204.5	198.6	208.8	220.6	259.0
60°	422.2	363.4	300.1	236.9	194.2	166.2	154.5	153.0	155.9	170.6	197.1
62.5°	331.0	282.5	232.4	180.9	145.6	133.8	119.2	117.7	120.6	129.5	150.1
65°	238.3	207.5	169.2	132.4	104.5	88.2	82.4	83.9	86.8	92.7	111.8
67.5°	166.2	144.2	117.7	92.7	72.1	64.7	58.9	57.4	58.9	69.2	79.5
70°	111.8	98.5	79.5	70.6	50.0	39.7	41.1	36.8	42.7	42.7	51.5
72.5°	73.5	64.7	52.9	41.1	35.3	28.0	28.0	26.5	29.4	30.9	38.2
75°	38.2	29.4	29.4	20.6	14.7	7.4	13.2	11.8	10.3	11.8	14.7
77.5°	26.5	22.1	20.6	16.1	14.7	11.8	11.8	11.8	11.8	13.2	14.7
80°	16.1	16.1	11.8	10.3	8.9	7.4	8.9	8.9	8.9	8.9	10.3
82.5°	10.3	8.9	8.9	7.4	7.4	5.8	5.8	5.8	5.8	5.8	8.9
85°	8.9	5.8	5.8	4.4	5.8	10.3	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	7.4	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°	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2745.2	2746.8	2746.8	2745.2	2745.2	2742.3	2748.1	2743.8	2745.2	2751.2	2746.8
5°	2748.1	2749.7	2749.7	2748.1	2748.1	2748.1	2749.7	2749.7	2748.1	2746.8	2749.7
7.5°	2754.1	2752.6	2752.6	2749.7	2749.7	2746.8	2749.7	2745.2	2748.1	2745.2	2749.7
10°	2746.8	2748.1	2746.8	2745.2	2745.2	2743.8	2743.8	2739.4	2740.8	2736.4	2739.4
12.5°	2742.3	2740.8	2740.8	2737.9	2735.0	2732.0	2730.5	2726.2	2726.2	2715.8	2720.2
15°	2730.5	2732.0	2727.6	2721.7	2718.8	2711.5	2708.4	2702.6	2696.7	2689.4	2690.8
17.5°	2720.2	2715.8	2709.9	2704.1	2692.3	2686.4	2680.5	2671.7	2668.8	2659.9	2657.0
20°	2689.4	2686.4	2679.1	2668.8	2661.4	2648.1	2642.3	2633.5	2626.1	2617.2	2612.8
22.5°	2649.6	2646.7	2637.8	2627.5	2615.7	2609.9	2604.0	2587.8	2580.4	2571.7	2570.1
25°	2599.6	2595.2	2586.4	2574.6	2568.7	2552.5	2546.6	2534.8	2531.9	2523.0	2521.7
27.5°	2523.0	2517.2	2506.9	2492.2	2481.9	2471.6	2465.8	2456.9	2454.0	2445.1	2443.7
30°	2408.4	2401.0	2380.4	2374.5	2356.8	2346.6	2346.6	2334.8	2336.3	2330.3	2330.3
32.5°	2227.4	2215.7	2199.4	2187.6	2175.9	2170.0	2170.0	2165.5	2168.6	2168.6	2171.5
35°	1987.5	1971.4	1962.5	1955.2	1955.2	1961.1	1978.8	1983.2	1992.0	1999.3	2005.2
37.5°	1680.0	1678.7	1688.9	1697.8	1719.8	1744.8	1775.8	1802.2	1827.2	1844.8	1862.5
40°	1347.7	1384.4	1413.8	1455.1	1488.8	1537.3	1593.3	1638.9	1681.6	1712.4	1744.8
42.5°	1051.9	1099.0	1160.8	1221.1	1281.4	1347.7	1421.2	1484.4	1540.4	1583.0	1616.8
45°	819.5	884.1	959.2	1035.7	1113.7	1196.1	1272.6	1337.4	1396.2	1440.3	1474.1
47.5°	660.6	731.2	816.5	900.4	988.6	1075.5	1160.8	1216.7	1265.2	1300.5	1331.4
50°	545.8	620.8	710.6	806.2	894.4	981.3	1054.9	1109.2	1149.0	1179.9	1199.0
52.5°	456.0	535.5	631.1	726.7	815.1	894.4	960.7	1001.8	1034.2	1056.3	1073.9
55°	376.7	453.1	542.9	632.6	719.5	794.5	848.8	879.8	904.8	918.0	928.3
57.5°	307.5	378.1	460.5	542.9	617.9	679.7	722.4	753.2	765.0	775.3	773.8
60°	241.2	307.5	382.5	453.1	517.9	567.9	598.8	616.4	625.3	629.7	626.8
62.5°	189.8	250.1	307.5	369.3	416.3	459.0	488.4	488.4	492.8	494.4	498.7
65°	141.2	186.9	236.9	282.5	320.7	348.6	364.9	369.3	375.2	373.7	370.7
67.5°	104.5	138.3	175.1	208.8	235.4	253.0	264.8	275.1	273.6	270.7	269.3
70°	72.1	94.2	126.6	147.1	166.2	184.0	186.9	188.3	189.8	191.2	188.3
72.5°	50.0	66.3	83.9	101.6	113.3	120.6	128.0	129.5	129.5	129.5	128.0
75°	25.0	33.9	50.0	57.4	67.7	70.6	76.5	76.5	80.9	75.0	73.5
77.5°	22.1	26.5	35.3	41.1	45.6	50.0	51.5	55.9	54.5	51.5	52.9
80°	13.2	16.1	22.1	25.0	30.9	32.4	33.9	35.3	33.9	35.3	35.3
82.5°	10.3	11.8	14.7	14.7	19.2	19.2	20.6	20.6	22.1	22.1	22.1
85°	5.8	10.3	8.9	17.6	11.8	11.8	14.7	17.6	14.7	14.7	17.6
87.5°	5.8	5.8	4.4	5.8	5.8	5.8	7.4	8.9	8.9	10.3	8.9
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: P249289

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2740.8	2740.8	2740.8	2740.8
2.5°	2745.2	2748.1	2743.8	2742.3
5°	2749.7	2749.7	2746.8	2746.8
7.5°	2749.7	2749.7	2745.2	2742.3
10°	2737.9	2737.9	2733.4	2730.5
12.5°	2715.8	2715.8	2714.4	2709.9
15°	2687.9	2687.9	2682.0	2677.6
17.5°	2649.6	2652.6	2645.2	2645.2
20°	2608.5	2607.0	2601.1	2598.1
22.5°	2565.7	2562.8	2561.4	2552.5
25°	2520.1	2517.2	2512.8	2508.3
27.5°	2442.2	2440.8	2436.3	2430.4
30°	2323.0	2321.5	2315.6	2315.6
32.5°	2168.6	2167.1	2161.2	2162.6
35°	2008.2	2014.1	2011.1	2005.2
37.5°	1874.3	1878.7	1881.7	1878.7
40°	1762.4	1775.8	1777.2	1780.1
42.5°	1643.4	1661.0	1666.9	1669.8
45°	1500.6	1516.8	1530.1	1527.1
47.5°	1355.0	1366.7	1378.5	1369.6
50°	1215.2	1222.6	1226.9	1226.9
52.5°	1082.8	1082.8	1081.3	1082.8
55°	931.2	931.2	925.4	928.3
57.5°	772.4	775.3	770.9	763.5
60°	625.3	617.9	615.0	610.6
62.5°	487.0	487.0	476.6	489.9
65°	364.9	360.4	356.0	354.6
67.5°	264.8	263.3	259.0	257.5
70°	186.9	180.9	179.5	176.6
72.5°	125.1	125.1	122.1	122.1
75°	76.5	69.2	67.7	69.2
77.5°	52.9	51.5	51.5	50.0
80°	35.3	33.9	36.8	32.4
82.5°	22.1	23.5	22.1	23.5
85°	14.7	17.6	16.1	16.1
87.5°	8.9	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)