

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: P249595

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249595
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 EC8B60950 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5765.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

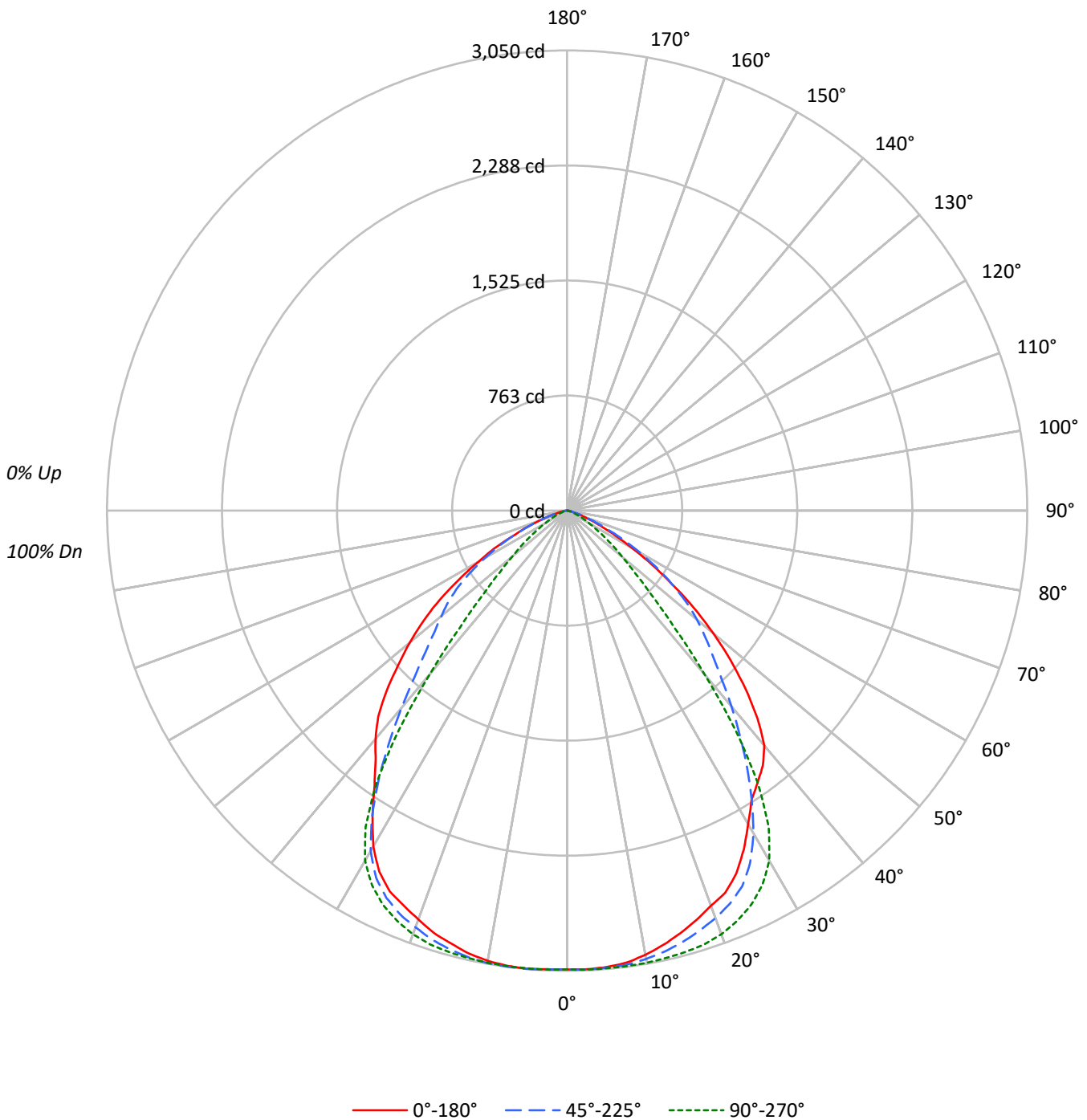
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93795	93795	93795
5°	94001	94255	94357
10°	93607	95295	94885
15°	92570	96689	94862
20°	91456	98046	94620
25°	90269	98160	94716
30°	85403	95401	91506
35°	82851	82911	83773
40°	81824	57048	79526
45°	72910	34246	73904
50°	60623	22792	65325
55°	45466	15714	55385
60°	30812	10472	41789
65°	18584	6793	28712
70°	10305	3679	17662
75°	4670	1561	9138
80°	4067	1740	6375
85°	4635	2300	6369



TEST NUMBER: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	5.0
10°-20°	843.0	14.6
20°-30°	1279.6	22.2
30°-40°	1343.9	23.3
40°-50°	1007.6	17.5
50°-60°	646.5	11.2
60°-70°	276.6	4.8
70°-80°	65.3	1.1
80°-90°	12.2	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°	2412.9	41.9
0°-40°	3756.9	65.2
0°-60°	5410.9	93.9
0°-90°	5765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5765.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3042	3042	3042	3042	3042	
5°	3037	3042	3045	3050	3048	288
15°	2900	2960	3029	3009	2972	818
25°	2653	2746	2885	2833	2784	1212
35°	2201	2078	2202	2176	2225	1381
45°	1672	1367	785	1327	1695	1280
55°	846	846	292	882	1030	767
65°	255	300	93	387	394	272
75°	39	46	13	78	77	57
85°	13	8	6	13	18	14
90°	0	0	0	0	0	



TEST NUMBER: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7
2.5°	3043.4	3046.6	3045.0	3045.0	3043.4	3045.0	3045.0	3048.3	3048.3	3045.0	3043.4
5°	3036.8	3040.1	3040.1	3036.8	3036.8	3045.0	3040.1	3043.4	3043.4	3041.7	3041.7
7.5°	3022.2	3022.2	3028.7	3023.8	3023.8	3028.7	3027.0	3030.3	3033.6	3035.2	3035.2
10°	2989.5	2992.7	2994.4	2994.4	2996.0	3000.9	3004.2	3010.7	3014.0	3017.2	3018.9
12.5°	2948.7	2953.6	2955.2	2953.6	2958.5	2965.0	2973.2	2981.3	2986.2	2992.7	2997.7
15°	2899.7	2899.7	2902.9	2907.9	2911.1	2920.9	2929.1	2938.9	2951.9	2960.1	2968.3
17.5°	2845.8	2849.1	2854.0	2854.0	2860.5	2876.8	2881.7	2896.4	2911.1	2919.3	2935.6
20°	2787.0	2790.3	2795.2	2798.5	2806.6	2819.7	2829.5	2842.5	2858.9	2873.6	2889.9
22.5°	2741.3	2734.8	2738.0	2741.3	2749.5	2760.9	2772.3	2788.6	2805.0	2819.7	2836.0
25°	2653.1	2654.8	2659.7	2662.9	2672.8	2682.5	2695.6	2715.2	2729.9	2746.2	2764.2
27.5°	2534.0	2535.6	2543.8	2543.8	2551.9	2568.2	2576.4	2592.7	2612.3	2628.6	2649.9
30°	2398.5	2401.7	2401.7	2408.2	2413.1	2421.3	2429.5	2445.8	2455.6	2470.3	2499.7
32.5°	2274.4	2277.6	2276.0	2274.4	2269.5	2267.8	2266.2	2269.5	2272.7	2277.6	2289.0
35°	2200.9	2192.7	2186.2	2174.8	2161.7	2145.4	2130.7	2111.1	2093.1	2078.4	2062.1
37.5°	2130.7	2129.0	2119.2	2102.9	2076.8	2047.4	2013.1	1970.7	1928.2	1882.5	1838.4
40°	2032.7	2027.8	2019.7	1996.8	1967.4	1931.5	1885.8	1833.5	1764.9	1694.7	1622.9
42.5°	1866.2	1867.8	1858.0	1840.0	1812.3	1778.0	1730.7	1673.5	1600.1	1516.8	1423.7
45°	1671.9	1671.9	1668.6	1653.9	1634.3	1606.6	1570.7	1523.3	1451.5	1366.6	1267.0
47.5°	1469.4	1471.1	1466.2	1462.9	1454.7	1436.8	1410.7	1374.7	1324.1	1242.5	1142.9
50°	1263.7	1263.7	1271.9	1270.2	1270.2	1263.7	1252.3	1231.0	1187.0	1121.7	1028.6
52.5°	1058.0	1061.3	1066.2	1072.7	1080.8	1093.9	1080.8	1071.1	1043.3	992.7	912.7
55°	845.7	849.0	857.2	868.6	878.4	891.5	894.7	894.7	880.0	845.7	785.3
57.5°	664.5	659.6	666.2	675.9	689.0	702.1	711.9	723.3	721.7	698.8	649.8
60°	499.6	501.2	506.1	515.9	525.7	537.2	550.2	560.0	564.9	553.5	522.5
62.5°	364.1	364.1	370.6	380.4	385.3	401.7	409.8	414.7	419.6	418.0	398.4
65°	254.7	258.0	261.2	266.1	271.0	280.8	285.7	295.5	298.8	300.4	285.7
67.5°	179.6	174.7	178.0	181.2	186.1	192.7	202.5	202.5	207.3	207.3	197.6
70°	114.3	114.3	115.9	120.8	124.1	125.7	129.0	132.2	137.1	135.5	135.5
72.5°	76.7	75.1	76.7	78.4	80.0	84.9	84.9	86.5	89.8	91.4	84.9
75°	39.2	40.8	44.1	42.5	47.3	44.1	45.7	50.6	49.0	45.7	45.7
77.5°	32.6	32.6	32.6	31.0	34.3	34.3	32.6	35.9	34.3	34.3	32.6
80°	22.9	24.5	22.9	21.2	22.9	21.2	21.2	21.2	21.2	21.2	19.6
82.5°	18.0	14.7	16.3	14.7	16.3	16.3	14.7	13.1	13.1	14.7	13.1
85°	13.1	9.8	11.4	11.4	9.8	9.8	9.8	9.8	9.8	8.2	8.2
87.5°	8.2	4.9	4.9	4.9	6.5	6.5	6.5	4.9	6.5	6.5	3.3
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: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7
2.5°	3046.6	3045.0	3048.3	3046.6	3046.6	3045.0	3046.6	3045.0	3048.3	3041.7	3043.4
5°	3046.6	3043.4	3045.0	3046.6	3048.3	3045.0	3045.0	3045.0	3048.3	3045.0	3046.6
7.5°	3040.1	3038.5	3043.4	3046.6	3045.0	3043.4	3046.6	3045.0	3048.3	3046.6	3049.9
10°	3027.0	3028.7	3031.9	3036.8	3038.5	3040.1	3043.4	3043.4	3048.3	3041.7	3045.0
12.5°	3007.5	3014.0	3022.2	3025.4	3031.9	3031.9	3035.2	3036.8	3040.1	3038.5	3043.4
15°	2983.0	2991.1	3000.9	3009.1	3017.2	3022.2	3027.0	3028.7	3033.6	3028.7	3030.3
17.5°	2953.6	2963.3	2978.0	2987.8	3000.9	3005.8	3012.3	3015.6	3020.5	3017.2	3018.9
20°	2912.7	2924.2	2940.5	2955.2	2963.3	2974.8	2983.0	2987.8	2991.1	2987.8	2989.5
22.5°	2855.6	2871.9	2893.2	2904.6	2920.9	2930.7	2932.3	2943.8	2951.9	2943.8	2947.0
25°	2788.6	2805.0	2821.3	2845.8	2860.5	2871.9	2883.4	2885.0	2893.2	2891.5	2889.9
27.5°	2677.6	2698.9	2726.6	2746.2	2765.8	2783.8	2796.8	2800.1	2808.3	2805.0	2806.6
30°	2525.8	2548.7	2574.8	2605.8	2633.6	2651.5	2667.8	2679.3	2687.4	2682.5	2680.9
32.5°	2310.3	2333.1	2360.9	2391.9	2424.6	2450.7	2470.3	2485.0	2494.8	2491.5	2483.4
35°	2063.8	2070.3	2088.2	2112.7	2140.5	2168.2	2186.2	2202.5	2213.9	2217.2	2217.2
37.5°	1810.7	1789.5	1776.4	1776.4	1792.7	1804.1	1820.5	1830.3	1848.2	1854.7	1859.7
40°	1565.7	1516.8	1471.1	1436.8	1413.9	1412.3	1412.3	1417.2	1433.5	1454.7	1474.3
42.5°	1347.0	1268.6	1198.4	1134.7	1089.0	1062.9	1051.5	1053.1	1066.2	1085.8	1118.4
45°	1172.3	1074.3	986.2	909.4	847.4	806.5	787.0	785.3	795.1	818.0	853.9
47.5°	1036.8	932.3	832.7	744.5	677.6	633.5	610.6	604.1	610.6	631.8	674.3
50°	924.1	816.4	713.5	622.1	550.2	504.5	483.3	475.1	483.3	501.2	543.7
52.5°	819.6	708.6	612.3	524.1	447.4	408.2	385.3	380.4	385.3	406.5	440.8
55°	698.8	604.1	509.4	421.2	354.3	315.1	297.1	292.3	297.1	316.8	352.7
57.5°	579.6	498.0	414.7	334.7	277.6	243.3	227.0	220.4	231.8	244.9	287.4
60°	468.6	403.3	333.1	262.9	215.5	184.5	171.4	169.8	173.1	189.4	218.8
62.5°	367.4	313.5	258.0	200.8	161.6	148.6	132.2	130.6	133.9	143.7	166.5
65°	264.5	230.2	187.8	146.9	115.9	98.0	91.4	93.1	96.3	102.9	124.1
67.5°	184.5	160.0	130.6	102.9	80.0	71.8	65.3	63.7	65.3	76.7	88.2
70°	124.1	109.4	88.2	78.4	55.5	44.1	45.7	40.8	47.3	47.3	57.1
72.5°	81.6	71.8	58.8	45.7	39.2	31.0	31.0	29.4	32.6	34.3	42.5
75°	42.5	32.6	32.6	22.9	16.3	8.2	14.7	13.1	11.4	13.1	16.3
77.5°	29.4	24.5	22.9	18.0	16.3	13.1	13.1	13.1	13.1	14.7	16.3
80°	18.0	18.0	13.1	11.4	9.8	8.2	9.8	9.8	9.8	9.8	11.4
82.5°	11.4	9.8	9.8	8.2	8.2	6.5	6.5	6.5	6.5	6.5	9.8
85°	9.8	6.5	6.5	4.9	6.5	11.4	4.9	6.5	6.5	6.5	4.9
87.5°	3.3	4.9	4.9	4.9	3.3	1.6	3.3	4.9	4.9	8.2	6.5
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: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7	3041.7
2.5°	3046.6	3048.3	3048.3	3046.6	3046.6	3043.4	3049.9	3045.0	3046.6	3053.2	3048.3
5°	3049.9	3051.5	3051.5	3049.9	3049.9	3049.9	3051.5	3051.5	3049.9	3048.3	3051.5
7.5°	3056.4	3054.8	3054.8	3051.5	3051.5	3048.3	3051.5	3046.6	3049.9	3046.6	3051.5
10°	3048.3	3049.9	3048.3	3046.6	3046.6	3045.0	3045.0	3040.1	3041.7	3036.8	3040.1
12.5°	3043.4	3041.7	3041.7	3038.5	3035.2	3031.9	3030.3	3025.4	3025.4	3014.0	3018.9
15°	3030.3	3031.9	3027.0	3020.5	3017.2	3009.1	3005.8	2999.3	2992.7	2984.6	2986.2
17.5°	3018.9	3014.0	3007.5	3000.9	2987.8	2981.3	2974.8	2965.0	2961.7	2951.9	2948.7
20°	2984.6	2981.3	2973.2	2961.7	2953.6	2938.9	2932.3	2922.6	2914.4	2904.6	2899.7
22.5°	2940.5	2937.2	2927.4	2916.0	2902.9	2896.4	2889.9	2871.9	2863.8	2854.0	2852.3
25°	2885.0	2880.1	2870.3	2857.2	2850.7	2832.8	2826.2	2813.1	2809.9	2800.1	2798.5
27.5°	2800.1	2793.6	2782.1	2765.8	2754.4	2742.9	2736.4	2726.6	2723.4	2713.5	2711.9
30°	2672.8	2664.6	2641.7	2635.2	2615.6	2604.2	2604.2	2591.1	2592.7	2586.2	2586.2
32.5°	2471.9	2458.9	2440.9	2427.8	2414.8	2408.2	2408.2	2403.3	2406.6	2406.6	2409.9
35°	2205.8	2187.8	2178.0	2169.9	2169.9	2176.4	2196.0	2200.9	2210.7	2218.8	2225.4
37.5°	1864.5	1862.9	1874.4	1884.1	1908.6	1936.4	1970.7	2000.1	2027.8	2047.4	2067.0
40°	1495.6	1536.4	1569.0	1614.8	1652.3	1706.2	1768.2	1818.8	1866.2	1900.5	1936.4
42.5°	1167.4	1219.6	1288.2	1355.1	1422.1	1495.6	1577.2	1647.4	1709.4	1756.8	1794.3
45°	909.4	981.2	1064.5	1149.4	1236.0	1327.4	1412.3	1484.1	1549.4	1598.4	1636.0
47.5°	733.1	811.5	906.1	999.2	1097.2	1193.5	1288.2	1350.3	1404.1	1443.3	1477.6
50°	605.7	689.0	788.6	894.7	992.7	1089.0	1170.6	1231.0	1275.2	1309.4	1330.6
52.5°	506.1	594.3	700.4	806.5	904.5	992.7	1066.2	1111.9	1147.8	1172.3	1191.9
55°	418.0	502.9	602.5	702.1	798.4	881.6	942.1	976.4	1004.1	1018.8	1030.2
57.5°	341.2	419.6	511.0	602.5	685.7	754.3	801.7	835.9	849.0	860.4	858.8
60°	267.8	341.2	424.5	502.9	574.7	630.2	664.5	684.1	693.9	698.8	695.5
62.5°	210.6	277.6	341.2	409.8	462.1	509.4	542.1	542.1	547.0	548.6	553.5
65°	156.7	207.3	262.9	313.5	355.9	387.0	404.9	409.8	416.4	414.7	411.4
67.5°	115.9	153.5	194.3	231.8	261.2	280.8	293.9	305.3	303.7	300.4	298.8
70°	80.0	104.5	140.4	163.3	184.5	204.1	207.3	209.0	210.6	212.3	209.0
72.5°	55.5	73.5	93.1	112.7	125.7	133.9	142.1	143.7	143.7	143.7	142.1
75°	27.8	37.6	55.5	63.7	75.1	78.4	84.9	84.9	89.8	83.3	81.6
77.5°	24.5	29.4	39.2	45.7	50.6	55.5	57.1	62.0	60.4	57.1	58.8
80°	14.7	18.0	24.5	27.8	34.3	35.9	37.6	39.2	37.6	39.2	39.2
82.5°	11.4	13.1	16.3	16.3	21.2	21.2	22.9	22.9	24.5	24.5	24.5
85°	6.5	11.4	9.8	19.6	13.1	13.1	16.3	19.6	16.3	16.3	19.6
87.5°	6.5	6.5	4.9	6.5	6.5	6.5	8.2	9.8	9.8	11.4	9.8
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: P249595

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3041.7	3041.7	3041.7	3041.7
2.5°	3046.6	3049.9	3045.0	3043.4
5°	3051.5	3051.5	3048.3	3048.3
7.5°	3051.5	3051.5	3046.6	3043.4
10°	3038.5	3038.5	3033.6	3030.3
12.5°	3014.0	3014.0	3012.3	3007.5
15°	2983.0	2983.0	2976.4	2971.5
17.5°	2940.5	2943.8	2935.6	2935.6
20°	2894.8	2893.2	2886.6	2883.4
22.5°	2847.5	2844.2	2842.5	2832.8
25°	2796.8	2793.6	2788.6	2783.8
27.5°	2710.3	2708.7	2703.8	2697.2
30°	2578.0	2576.4	2569.9	2569.9
32.5°	2406.6	2405.0	2398.5	2400.1
35°	2228.6	2235.2	2231.9	2225.4
37.5°	2080.1	2085.0	2088.2	2085.0
40°	1956.0	1970.7	1972.3	1975.6
42.5°	1823.7	1843.3	1849.9	1853.1
45°	1665.3	1683.3	1698.0	1694.7
47.5°	1503.7	1516.8	1529.8	1520.0
50°	1348.6	1356.8	1361.7	1361.7
52.5°	1201.7	1201.7	1200.0	1201.7
55°	1033.5	1033.5	1027.0	1030.2
57.5°	857.2	860.4	855.5	847.4
60°	693.9	685.7	682.5	677.6
62.5°	540.4	540.4	529.0	543.7
65°	404.9	400.0	395.1	393.5
67.5°	293.9	292.3	287.4	285.7
70°	207.3	200.8	199.2	195.9
72.5°	138.8	138.8	135.5	135.5
75°	84.9	76.7	75.1	76.7
77.5°	58.8	57.1	57.1	55.5
80°	39.2	37.6	40.8	35.9
82.5°	24.5	26.1	24.5	26.1
85°	16.3	19.6	18.0	18.0
87.5°	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)