

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: P249379

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249379
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5700.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

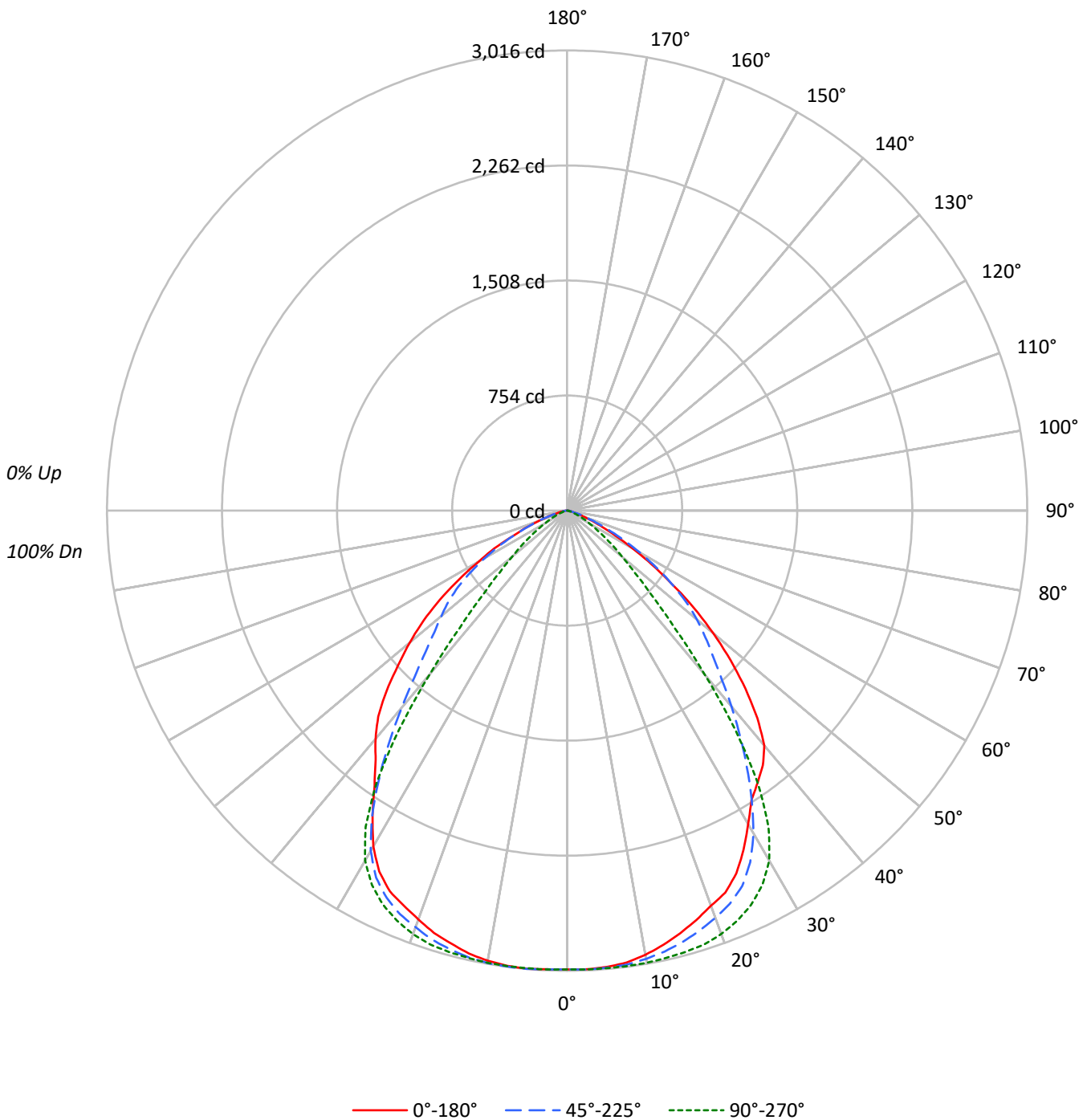
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	92737	92737	92737
5°	92943	93194	93293
10°	92552	94221	93814
15°	91526	95597	93793
20°	90426	96940	93553
25°	89252	97054	93648
30°	84438	94326	90473
35°	81918	81978	82829
40°	80902	56404	78628
45°	72086	33862	73071
50°	59942	22538	64586
55°	44955	15537	54761
60°	30466	10355	41314
65°	18373	6713	28383
70°	10188	3642	17464
75°	4611	1537	9043
80°	4013	1723	6304
85°	4564	2264	6298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	5.0
10°-20°	833.5	14.6
20°-30°	1265.2	22.2
30°-40°	1328.8	23.3
40°-50°	996.2	17.5
50°-60°	639.2	11.2
60°-70°	273.4	4.8
70°-80°	64.6	1.1
80°-90°	12.0	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°	2385.7	41.9
0°-40°	3714.5	65.2
0°-60°	5349.9	93.9
0°-90°	5700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3007	3007	3007	3007	3007	
5°	3003	3007	3011	3016	3014	285
15°	2867	2927	2994	2975	2938	809
25°	2623	2715	2852	2801	2752	1198
35°	2176	2055	2178	2152	2200	1366
45°	1653	1351	776	1312	1676	1266
55°	836	836	289	872	1019	759
65°	252	297	92	383	389	269
75°	39	45	13	78	76	56
85°	13	8	6	13	18	14
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°	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4
2.5°	3009.1	3012.3	3010.7	3010.7	3009.1	3010.7	3010.7	3013.9	3013.9	3010.7	3009.1
5°	3002.6	3005.8	3005.8	3002.6	3002.6	3010.7	3005.8	3009.1	3009.1	3007.4	3007.4
7.5°	2988.1	2988.1	2994.5	2989.7	2989.7	2994.5	2992.9	2996.1	2999.4	3001.0	3001.0
10°	2955.8	2959.0	2960.6	2960.6	2962.2	2967.1	2970.3	2976.8	2980.0	2983.2	2984.8
12.5°	2915.4	2920.3	2921.9	2920.3	2925.1	2931.6	2939.7	2947.7	2952.6	2959.0	2963.9
15°	2867.0	2867.0	2870.2	2875.1	2878.3	2888.0	2896.0	2905.7	2918.6	2926.7	2934.8
17.5°	2813.7	2817.0	2821.8	2821.8	2828.3	2844.4	2849.2	2863.8	2878.3	2886.4	2902.5
20°	2755.6	2758.8	2763.7	2766.9	2775.0	2787.9	2797.6	2810.5	2826.6	2841.2	2857.3
22.5°	2710.4	2704.0	2707.2	2710.4	2718.5	2729.8	2741.1	2757.2	2773.4	2787.9	2804.0
25°	2623.2	2624.8	2629.7	2632.9	2642.6	2652.3	2665.2	2684.6	2699.1	2715.3	2733.0
27.5°	2505.4	2507.0	2515.1	2515.1	2523.1	2539.3	2547.3	2563.5	2582.9	2599.0	2620.0
30°	2371.4	2374.6	2374.6	2381.1	2385.9	2394.0	2402.1	2418.2	2427.9	2442.4	2471.5
32.5°	2248.7	2251.9	2250.3	2248.7	2243.9	2242.3	2240.6	2243.9	2247.1	2251.9	2263.2
35°	2176.1	2168.0	2161.6	2150.3	2137.3	2121.2	2106.7	2087.3	2069.5	2055.0	2038.9
37.5°	2106.7	2105.0	2095.4	2079.2	2053.4	2024.3	1990.4	1948.5	1906.5	1861.3	1817.7
40°	2009.8	2004.9	1996.9	1974.3	1945.2	1909.7	1864.5	1812.9	1745.0	1675.6	1604.6
42.5°	1845.1	1846.7	1837.1	1819.3	1791.9	1758.0	1711.1	1654.7	1582.0	1499.7	1407.7
45°	1653.0	1653.0	1649.8	1635.3	1615.9	1588.5	1553.0	1506.1	1435.1	1351.2	1252.7
47.5°	1452.9	1454.5	1449.6	1446.4	1438.3	1420.6	1394.8	1359.2	1309.2	1228.5	1130.0
50°	1249.5	1249.5	1257.5	1255.9	1255.9	1249.5	1238.2	1217.2	1173.6	1109.0	1017.0
52.5°	1046.1	1049.3	1054.2	1060.6	1068.7	1081.6	1068.7	1059.0	1031.5	981.5	902.4
55°	836.2	839.4	847.5	858.8	868.5	881.4	884.6	884.6	870.1	836.2	776.5
57.5°	657.0	652.2	658.6	668.3	681.2	694.2	703.8	715.1	713.5	690.9	642.5
60°	494.0	495.6	500.4	510.1	519.8	531.1	544.0	553.7	558.6	547.3	516.6
62.5°	360.0	360.0	366.4	376.1	381.0	397.1	405.2	410.0	414.9	413.2	393.9
65°	251.8	255.0	258.3	263.1	268.0	277.6	282.5	292.2	295.4	297.0	282.5
67.5°	177.6	172.7	176.0	179.2	184.0	190.5	200.2	200.2	205.0	205.0	195.3
70°	113.0	113.0	114.6	119.4	122.7	124.3	127.5	130.7	135.6	134.0	134.0
72.5°	75.9	74.3	75.9	77.5	79.1	83.9	83.9	85.6	88.8	90.4	83.9
75°	38.7	40.4	43.6	42.0	46.8	43.6	45.2	50.0	48.4	45.2	45.2
77.5°	32.3	32.3	32.3	30.7	33.9	33.9	32.3	35.5	33.9	33.9	32.3
80°	22.6	24.2	22.6	21.0	22.6	21.0	21.0	21.0	21.0	21.0	19.4
82.5°	17.8	14.5	16.2	14.5	16.2	16.2	14.5	12.9	12.9	14.5	12.9
85°	12.9	9.7	11.3	11.3	9.7	9.7	9.7	9.7	9.7	8.1	8.1
87.5°	8.1	4.9	4.9	4.9	6.4	6.4	6.4	4.9	6.4	6.4	3.2
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°	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4
2.5°	3012.3	3010.7	3013.9	3012.3	3012.3	3010.7	3012.3	3010.7	3013.9	3007.4	3009.1
5°	3012.3	3009.1	3010.7	3012.3	3013.9	3010.7	3010.7	3010.7	3013.9	3010.7	3012.3
7.5°	3005.8	3004.2	3009.1	3012.3	3010.7	3009.1	3012.3	3010.7	3013.9	3012.3	3015.5
10°	2992.9	2994.5	2997.8	3002.6	3004.2	3005.8	3009.1	3009.1	3013.9	3007.4	3010.7
12.5°	2973.5	2980.0	2988.1	2991.3	2997.8	2997.8	3001.0	3002.6	3005.8	3004.2	3009.1
15°	2949.3	2957.4	2967.1	2975.2	2983.2	2988.1	2992.9	2994.5	2999.4	2994.5	2996.1
17.5°	2920.3	2929.9	2944.5	2954.1	2967.1	2971.9	2978.4	2981.6	2986.5	2983.2	2984.8
20°	2879.9	2891.2	2907.3	2921.9	2929.9	2941.2	2949.3	2954.1	2957.4	2954.1	2955.8
22.5°	2823.4	2839.6	2860.5	2871.8	2888.0	2897.7	2899.3	2910.6	2918.6	2910.6	2913.8
25°	2757.2	2773.4	2789.5	2813.7	2828.3	2839.6	2850.9	2852.5	2860.5	2858.9	2857.3
27.5°	2647.4	2668.4	2695.9	2715.3	2734.6	2752.4	2765.3	2768.5	2776.6	2773.4	2775.0
30°	2497.3	2519.9	2545.8	2576.4	2603.9	2621.6	2637.8	2649.1	2657.1	2652.3	2650.7
32.5°	2284.2	2306.8	2334.3	2364.9	2397.2	2423.0	2442.4	2457.0	2466.6	2463.4	2455.4
35°	2040.5	2046.9	2064.7	2088.9	2116.3	2143.8	2161.6	2177.7	2189.0	2192.2	2192.2
37.5°	1790.3	1769.3	1756.4	1756.4	1772.5	1783.8	1799.9	1809.6	1827.4	1833.8	1838.7
40°	1548.1	1499.7	1454.5	1420.6	1398.0	1396.4	1396.4	1401.2	1417.4	1438.3	1457.7
42.5°	1331.8	1254.3	1184.9	1121.9	1076.7	1050.9	1039.6	1041.2	1054.2	1073.5	1105.8
45°	1159.1	1062.2	975.0	899.2	837.8	797.5	778.1	776.5	786.2	808.7	844.3
47.5°	1025.1	921.8	823.3	736.1	669.9	626.3	603.7	597.3	603.7	624.7	666.7
50°	913.7	807.2	705.5	615.0	544.0	498.8	477.8	469.8	477.8	495.6	537.5
52.5°	810.4	700.6	605.4	518.2	442.3	403.6	381.0	376.1	381.0	401.9	435.9
55°	690.9	597.3	503.7	416.5	350.3	311.6	293.8	289.0	293.8	313.2	348.7
57.5°	573.1	492.4	410.0	330.9	274.4	240.5	224.4	217.9	229.2	242.1	284.1
60°	463.3	398.7	329.3	259.9	213.1	182.4	169.5	167.9	171.1	187.3	216.3
62.5°	363.2	310.0	255.0	198.6	159.8	146.9	130.7	129.2	132.4	142.0	164.7
65°	261.5	227.6	185.6	145.3	114.6	96.9	90.4	92.0	95.2	101.7	122.7
67.5°	182.4	158.2	129.2	101.7	79.1	71.0	64.6	63.0	64.6	75.9	87.2
70°	122.7	108.1	87.2	77.5	54.9	43.6	45.2	40.4	46.8	46.8	56.5
72.5°	80.7	71.0	58.1	45.2	38.7	30.7	30.7	29.1	32.3	33.9	42.0
75°	42.0	32.3	32.3	22.6	16.2	8.1	14.5	12.9	11.3	12.9	16.2
77.5°	29.1	24.2	22.6	17.8	16.2	12.9	12.9	12.9	12.9	14.5	16.2
80°	17.8	17.8	12.9	11.3	9.7	8.1	9.7	9.7	9.7	9.7	11.3
82.5°	11.3	9.7	9.7	8.1	8.1	6.4	6.4	6.4	6.4	6.4	9.7
85°	9.7	6.4	6.4	4.9	6.4	11.3	4.9	6.4	6.4	6.4	4.9
87.5°	3.2	4.9	4.9	4.9	3.2	1.6	3.2	4.9	4.9	8.1	6.4
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°	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4	3007.4
2.5°	3012.3	3013.9	3013.9	3012.3	3012.3	3009.1	3015.5	3010.7	3012.3	3018.7	3013.9
5°	3015.5	3017.1	3017.1	3015.5	3015.5	3015.5	3017.1	3017.1	3015.5	3013.9	3017.1
7.5°	3022.0	3020.3	3020.3	3017.1	3017.1	3013.9	3017.1	3012.3	3015.5	3012.3	3017.1
10°	3013.9	3015.5	3013.9	3012.3	3012.3	3010.7	3010.7	3005.8	3007.4	3002.6	3005.8
12.5°	3009.1	3007.4	3007.4	3004.2	3001.0	2997.8	2996.1	2991.3	2991.3	2980.0	2984.8
15°	2996.1	2997.8	2992.9	2986.5	2983.2	2975.2	2971.9	2965.4	2959.0	2950.9	2952.6
17.5°	2984.8	2980.0	2973.5	2967.1	2954.1	2947.7	2941.2	2931.6	2928.3	2918.6	2915.4
20°	2950.9	2947.7	2939.7	2928.3	2920.3	2905.7	2899.3	2889.6	2881.5	2871.8	2867.0
22.5°	2907.3	2904.1	2894.4	2883.1	2870.2	2863.8	2857.3	2839.6	2831.5	2821.8	2820.2
25°	2852.5	2847.6	2837.9	2825.0	2818.5	2800.8	2794.3	2781.4	2778.2	2768.5	2766.9
27.5°	2768.5	2762.1	2750.8	2734.6	2723.3	2712.0	2705.6	2695.9	2692.7	2682.9	2681.4
30°	2642.6	2634.5	2611.9	2605.5	2586.1	2574.8	2574.8	2561.9	2563.5	2557.1	2557.1
32.5°	2444.1	2431.1	2413.4	2400.4	2387.5	2381.1	2381.1	2376.2	2379.5	2379.5	2382.7
35°	2180.9	2163.2	2153.5	2145.4	2145.4	2151.8	2171.2	2176.1	2185.8	2193.8	2200.3
37.5°	1843.5	1841.9	1853.2	1862.9	1887.1	1914.6	1948.5	1977.5	2004.9	2024.3	2043.7
40°	1478.7	1519.1	1551.3	1596.6	1633.6	1686.9	1748.3	1798.3	1845.1	1879.1	1914.6
42.5°	1154.2	1205.9	1273.7	1339.9	1406.1	1478.7	1559.4	1628.8	1690.2	1737.0	1774.1
45°	899.2	970.2	1052.5	1136.5	1222.0	1312.4	1396.4	1467.4	1532.0	1580.4	1617.5
47.5°	724.8	802.3	895.9	988.0	1084.8	1180.0	1273.7	1335.0	1388.3	1427.0	1461.0
50°	598.9	681.2	779.7	884.6	981.5	1076.7	1157.4	1217.2	1260.8	1294.7	1315.6
52.5°	500.4	587.6	692.5	797.5	894.3	981.5	1054.2	1099.3	1134.9	1159.1	1178.4
55°	413.2	497.2	595.7	694.2	789.4	871.7	931.4	965.4	992.8	1007.3	1018.6
57.5°	337.4	414.9	505.3	595.7	678.0	745.8	792.6	826.5	839.4	850.7	849.1
60°	264.8	337.4	419.7	497.2	568.2	623.1	657.0	676.4	686.1	690.9	687.7
62.5°	208.2	274.4	337.4	405.2	456.8	503.7	536.0	536.0	540.8	542.4	547.3
65°	155.0	205.0	259.9	310.0	351.9	382.6	400.4	405.2	411.7	410.0	406.8
67.5°	114.6	151.8	192.1	229.2	258.3	277.6	290.6	301.9	300.3	297.0	295.4
70°	79.1	103.3	138.8	161.4	182.4	201.8	205.0	206.6	208.2	209.9	206.6
72.5°	54.9	72.6	92.0	111.4	124.3	132.4	140.5	142.0	142.0	142.0	140.5
75°	27.5	37.1	54.9	63.0	74.3	77.5	83.9	83.9	88.8	82.3	80.7
77.5°	24.2	29.1	38.7	45.2	50.0	54.9	56.5	61.3	59.7	56.5	58.1
80°	14.5	17.8	24.2	27.5	33.9	35.5	37.1	38.7	37.1	38.7	38.7
82.5°	11.3	12.9	16.2	16.2	21.0	21.0	22.6	22.6	24.2	24.2	24.2
85°	6.4	11.3	9.7	19.4	12.9	12.9	16.2	19.4	16.2	16.2	19.4
87.5°	6.4	6.4	4.9	6.4	6.4	6.4	8.1	9.7	9.7	11.3	9.7
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: P249379

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3007.4	3007.4	3007.4	3007.4
2.5°	3012.3	3015.5	3010.7	3009.1
5°	3017.1	3017.1	3013.9	3013.9
7.5°	3017.1	3017.1	3012.3	3009.1
10°	3004.2	3004.2	2999.4	2996.1
12.5°	2980.0	2980.0	2978.4	2973.5
15°	2949.3	2949.3	2942.9	2938.0
17.5°	2907.3	2910.6	2902.5	2902.5
20°	2862.2	2860.5	2854.1	2850.9
22.5°	2815.3	2812.1	2810.5	2800.8
25°	2765.3	2762.1	2757.2	2752.4
27.5°	2679.7	2678.1	2673.3	2666.8
30°	2549.0	2547.3	2540.9	2540.9
32.5°	2379.5	2377.9	2371.4	2373.0
35°	2203.5	2210.0	2206.7	2200.3
37.5°	2056.6	2061.5	2064.7	2061.5
40°	1933.9	1948.5	1950.1	1953.3
42.5°	1803.2	1822.5	1829.0	1832.2
45°	1646.6	1664.3	1678.9	1675.6
47.5°	1486.8	1499.7	1512.6	1502.9
50°	1333.4	1341.5	1346.3	1346.3
52.5°	1188.1	1188.1	1186.5	1188.1
55°	1021.8	1021.8	1015.4	1018.6
57.5°	847.5	850.7	845.9	837.8
60°	686.1	678.0	674.8	669.9
62.5°	534.3	534.3	523.0	537.5
65°	400.4	395.5	390.6	389.0
67.5°	290.6	289.0	284.1	282.5
70°	205.0	198.6	196.9	193.7
72.5°	137.2	137.2	134.0	134.0
75°	83.9	75.9	74.3	75.9
77.5°	58.1	56.5	56.5	54.9
80°	38.7	37.1	40.4	35.5
82.5°	24.2	25.8	24.2	25.8
85°	16.2	19.4	17.8	17.8
87.5°	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)