

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: P249262

Luminaire Tested: **LSR8B60D010 EC8B60940 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249262  
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 EC8B60940 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5603.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 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

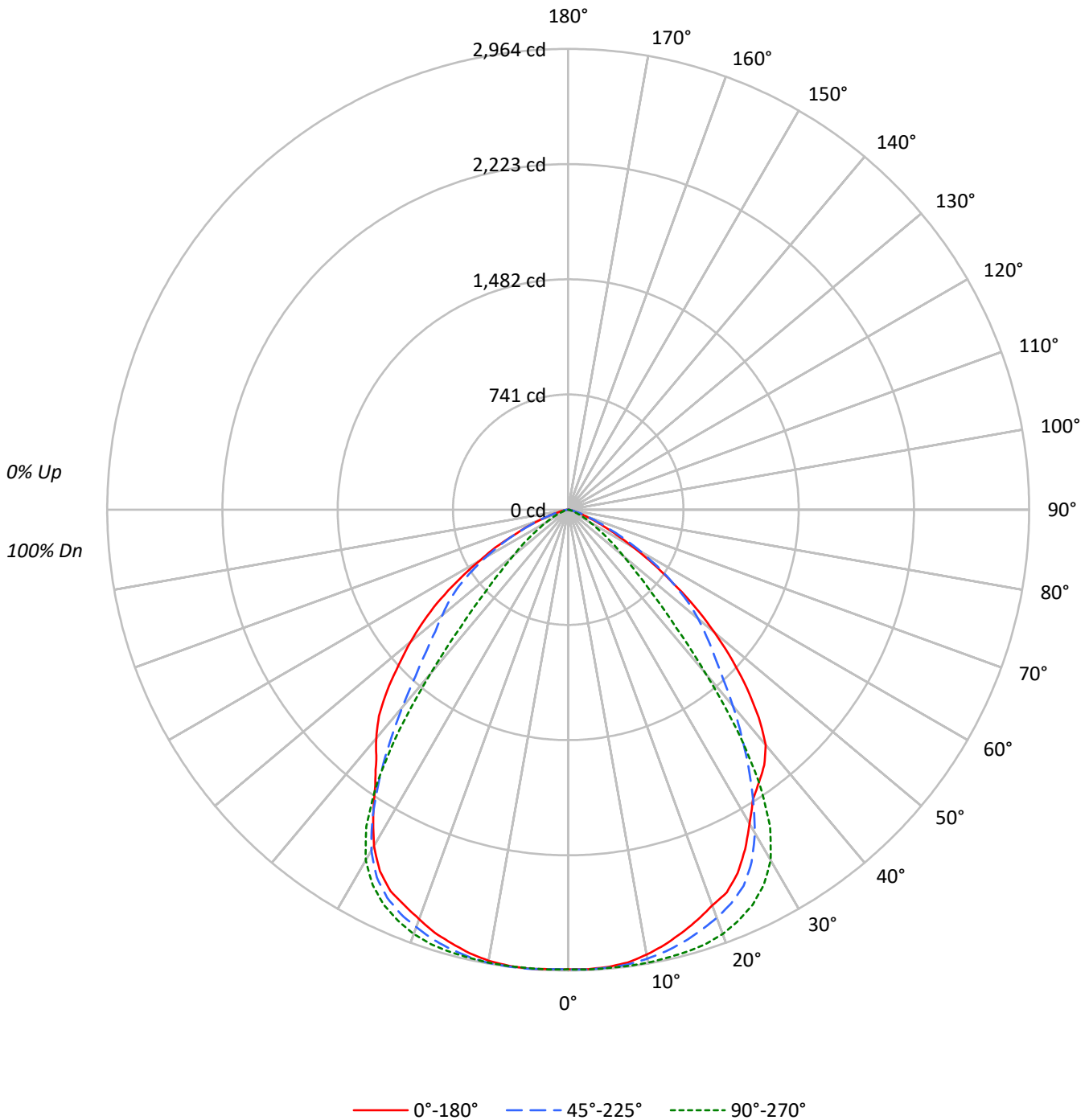
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	91161	91161	91161
5°	91361	91606	91705
10°	90977	92615	92217
15°	89969	93972	92197
20°	88887	95292	91958
25°	87735	95400	92052
30°	83003	92720	88935
35°	80525	80581	81421
40°	79526	55446	77292
45°	70860	33287	71829
50°	58920	22154	63487
55°	44192	15274	53831
60°	29948	10176	40611
65°	18066	6603	27902
70°	10017	3579	17166
75°	4539	1513	8888
80°	3942	1687	6198
85°	4493	2229	6192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.1	5.0
10°-20°	819.4	14.6
20°-30°	1243.6	22.2
30°-40°	1306.2	23.3
40°-50°	979.3	17.5
50°-60°	628.3	11.2
60°-70°	268.8	4.8
70°-80°	63.5	1.1
80°-90°	11.8	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°	2345.1	41.9
0°-40°	3651.3	65.2
0°-60°	5258.9	93.9
0°-90°	5603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2956	2956	2956	2956	2956	
5°	2952	2956	2959	2964	2963	280
15°	2818	2877	2944	2924	2888	795
25°	2579	2669	2804	2753	2706	1178
35°	2139	2020	2141	2115	2163	1343
45°	1625	1328	763	1290	1647	1244
55°	822	822	284	857	1001	746
65°	248	292	90	376	382	264
75°	38	44	13	76	75	55
85°	13	8	6	13	18	13
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°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2.5°	2957.8	2961.0	2959.4	2959.4	2957.8	2959.4	2959.4	2962.6	2962.6	2959.4	2957.8
5°	2951.5	2954.7	2954.7	2951.5	2951.5	2959.4	2954.7	2957.8	2957.8	2956.3	2956.3
7.5°	2937.2	2937.2	2943.6	2938.8	2938.8	2943.6	2942.0	2945.1	2948.3	2949.9	2949.9
10°	2905.5	2908.7	2910.2	2910.2	2911.8	2916.6	2919.8	2926.1	2929.3	2932.5	2934.0
12.5°	2865.8	2870.6	2872.2	2870.6	2875.3	2881.7	2889.6	2897.5	2902.3	2908.7	2913.4
15°	2818.2	2818.2	2821.4	2826.1	2829.3	2838.8	2846.8	2856.3	2869.0	2876.9	2884.8
17.5°	2765.8	2769.0	2773.8	2773.8	2780.1	2796.0	2800.8	2815.0	2829.3	2837.2	2853.1
20°	2708.7	2711.9	2716.7	2719.8	2727.8	2740.5	2750.0	2762.7	2778.5	2792.8	2808.7
22.5°	2664.3	2657.9	2661.1	2664.3	2672.2	2683.3	2694.4	2710.3	2726.2	2740.5	2756.3
25°	2578.6	2580.2	2584.9	2588.1	2597.6	2607.2	2619.9	2638.9	2653.2	2669.0	2686.5
27.5°	2462.8	2464.4	2472.3	2472.3	2480.2	2496.1	2504.0	2519.9	2538.9	2554.8	2575.4
30°	2331.1	2334.2	2334.2	2340.6	2345.3	2353.3	2361.2	2377.1	2386.6	2400.9	2429.4
32.5°	2210.5	2213.6	2212.0	2210.5	2205.7	2204.1	2202.5	2205.7	2208.9	2213.6	2224.7
35°	2139.1	2131.1	2124.8	2113.7	2101.0	2085.1	2070.8	2051.8	2034.3	2020.0	2004.2
37.5°	2070.8	2069.2	2059.7	2043.8	2018.4	1989.9	1956.6	1915.3	1874.0	1829.6	1786.8
40°	1975.6	1970.8	1962.9	1940.7	1912.1	1877.2	1832.8	1782.0	1715.3	1647.1	1577.3
42.5°	1813.7	1815.3	1805.8	1788.3	1761.4	1728.0	1682.0	1626.5	1555.1	1474.1	1383.7
45°	1624.9	1624.9	1621.7	1607.4	1588.4	1561.4	1526.5	1480.5	1410.7	1328.2	1231.4
47.5°	1428.1	1429.7	1425.0	1421.8	1413.8	1396.4	1371.0	1336.1	1286.9	1207.6	1110.8
50°	1228.2	1228.2	1236.1	1234.5	1234.5	1228.2	1217.1	1196.5	1153.6	1090.1	999.7
52.5°	1028.3	1031.4	1036.2	1042.5	1050.5	1063.2	1050.5	1041.0	1014.0	964.8	887.0
55°	822.0	825.2	833.1	844.2	853.7	866.4	869.6	869.6	855.3	822.0	763.3
57.5°	645.8	641.1	647.4	657.0	669.6	682.3	691.9	703.0	701.4	679.2	631.6
60°	485.6	487.2	491.9	501.5	511.0	522.1	534.8	544.3	549.1	537.9	507.8
62.5°	353.9	353.9	360.2	369.7	374.5	390.4	398.3	403.1	407.8	406.2	387.2
65°	247.6	250.7	253.9	258.7	263.4	272.9	277.7	287.2	290.4	292.0	277.7
67.5°	174.6	169.8	173.0	176.1	180.9	187.3	196.8	196.8	201.5	201.5	192.0
70°	111.1	111.1	112.7	117.4	120.6	122.2	125.4	128.5	133.3	131.7	131.7
72.5°	74.6	73.0	74.6	76.2	77.8	82.5	82.5	84.1	87.3	88.9	82.5
75°	38.1	39.7	42.8	41.3	46.0	42.8	44.4	49.2	47.6	44.4	44.4
77.5°	31.7	31.7	31.7	30.2	33.3	33.3	31.7	34.9	33.3	33.3	31.7
80°	22.2	23.8	22.2	20.6	22.2	20.6	20.6	20.6	20.6	20.6	19.0
82.5°	17.5	14.3	15.9	14.3	15.9	15.9	14.3	12.7	12.7	14.3	12.7
85°	12.7	9.5	11.1	11.1	9.5	9.5	9.5	9.5	9.5	7.9	7.9
87.5°	7.9	4.8	4.8	4.8	6.3	6.3	6.3	4.8	6.3	6.3	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°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2.5°	2961.0	2959.4	2962.6	2961.0	2961.0	2959.4	2961.0	2959.4	2962.6	2956.3	2957.8
5°	2961.0	2957.8	2959.4	2961.0	2962.6	2959.4	2959.4	2959.4	2962.6	2959.4	2961.0
7.5°	2954.7	2953.1	2957.8	2961.0	2959.4	2957.8	2961.0	2959.4	2962.6	2961.0	2964.2
10°	2942.0	2943.6	2946.7	2951.5	2953.1	2954.7	2957.8	2957.8	2962.6	2956.3	2959.4
12.5°	2922.9	2929.3	2937.2	2940.4	2946.7	2946.7	2949.9	2951.5	2954.7	2953.1	2957.8
15°	2899.1	2907.1	2916.6	2924.5	2932.5	2937.2	2942.0	2943.6	2948.3	2943.6	2945.1
17.5°	2870.6	2880.1	2894.4	2903.9	2916.6	2921.3	2927.7	2930.9	2935.6	2932.5	2934.0
20°	2830.9	2842.0	2857.9	2872.2	2880.1	2891.2	2899.1	2903.9	2907.1	2903.9	2905.5
22.5°	2775.4	2791.2	2811.9	2823.0	2838.8	2848.4	2849.9	2861.0	2869.0	2861.0	2864.2
25°	2710.3	2726.2	2742.0	2765.8	2780.1	2791.2	2802.3	2803.9	2811.9	2810.3	2808.7
27.5°	2602.4	2623.0	2650.0	2669.0	2688.1	2705.5	2718.2	2721.4	2729.3	2726.2	2727.8
30°	2454.8	2477.0	2502.4	2532.6	2559.6	2577.0	2592.9	2604.0	2611.9	2607.2	2605.6
32.5°	2245.4	2267.6	2294.6	2324.7	2356.5	2381.8	2400.9	2415.2	2424.7	2421.5	2413.6
35°	2005.8	2012.1	2029.6	2053.4	2080.3	2107.3	2124.8	2140.6	2151.7	2154.9	2154.9
37.5°	1759.8	1739.2	1726.5	1726.5	1742.3	1753.4	1769.3	1778.8	1796.3	1802.6	1807.4
40°	1521.7	1474.1	1429.7	1396.4	1374.2	1372.6	1372.6	1377.4	1393.2	1413.8	1432.9
42.5°	1309.1	1233.0	1164.7	1102.8	1058.4	1033.0	1021.9	1023.5	1036.2	1055.2	1087.0
45°	1139.3	1044.1	958.4	883.9	823.6	783.9	764.9	763.3	772.8	795.0	829.9
47.5°	1007.6	906.1	809.3	723.6	658.5	615.7	593.5	587.1	593.5	614.1	655.4
50°	898.1	793.4	693.5	604.6	534.8	490.3	469.7	461.8	469.7	487.2	528.4
52.5°	796.6	688.7	595.1	509.4	434.8	396.7	374.5	369.7	374.5	395.1	428.5
55°	679.2	587.1	495.1	409.4	344.4	306.3	288.8	284.1	288.8	307.9	342.8
57.5°	563.3	484.0	403.1	325.3	269.8	236.4	220.6	214.2	225.3	238.0	279.3
60°	455.4	392.0	323.7	255.5	209.5	179.3	166.6	165.0	168.2	184.1	212.6
62.5°	357.1	304.7	250.7	195.2	157.1	144.4	128.5	127.0	130.1	139.6	161.9
65°	257.1	223.8	182.5	142.8	112.7	95.2	88.9	90.5	93.6	100.0	120.6
67.5°	179.3	155.5	127.0	100.0	77.8	69.8	63.5	61.9	63.5	74.6	85.7
70°	120.6	106.3	85.7	76.2	54.0	42.8	44.4	39.7	46.0	46.0	55.5
72.5°	79.3	69.8	57.1	44.4	38.1	30.2	30.2	28.6	31.7	33.3	41.3
75°	41.3	31.7	31.7	22.2	15.9	7.9	14.3	12.7	11.1	12.7	15.9
77.5°	28.6	23.8	22.2	17.5	15.9	12.7	12.7	12.7	12.7	14.3	15.9
80°	17.5	17.5	12.7	11.1	9.5	7.9	9.5	9.5	9.5	9.5	11.1
82.5°	11.1	9.5	9.5	7.9	7.9	6.3	6.3	6.3	6.3	6.3	9.5
85°	9.5	6.3	6.3	4.8	6.3	11.1	4.8	6.3	6.3	6.3	4.8
87.5°	3.2	4.8	4.8	4.8	3.2	1.6	3.2	4.8	4.8	7.9	6.3
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°	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3	2956.3
2.5°	2961.0	2962.6	2962.6	2961.0	2961.0	2957.8	2964.2	2959.4	2961.0	2967.4	2962.6
5°	2964.2	2965.8	2965.8	2964.2	2964.2	2964.2	2965.8	2965.8	2964.2	2962.6	2965.8
7.5°	2970.5	2968.9	2968.9	2965.8	2965.8	2962.6	2965.8	2961.0	2964.2	2961.0	2965.8
10°	2962.6	2964.2	2962.6	2961.0	2961.0	2959.4	2959.4	2954.7	2956.3	2951.5	2954.7
12.5°	2957.8	2956.3	2956.3	2953.1	2949.9	2946.7	2945.1	2940.4	2940.4	2929.3	2934.0
15°	2945.1	2946.7	2942.0	2935.6	2932.5	2924.5	2921.3	2915.0	2908.7	2900.7	2902.3
17.5°	2934.0	2929.3	2922.9	2916.6	2903.9	2897.5	2891.2	2881.7	2878.5	2869.0	2865.8
20°	2900.7	2897.5	2889.6	2878.5	2870.6	2856.3	2849.9	2840.4	2832.5	2823.0	2818.2
22.5°	2857.9	2854.7	2845.2	2834.1	2821.4	2815.0	2808.7	2791.2	2783.3	2773.8	2772.2
25°	2803.9	2799.2	2789.6	2776.9	2770.6	2753.1	2746.8	2734.1	2730.9	2721.4	2719.8
27.5°	2721.4	2715.1	2704.0	2688.1	2677.0	2665.9	2659.5	2650.0	2646.8	2637.3	2635.7
30°	2597.6	2589.7	2567.5	2561.1	2542.1	2531.0	2531.0	2518.3	2519.9	2513.5	2513.5
32.5°	2402.5	2389.8	2372.3	2359.6	2346.9	2340.6	2340.6	2335.8	2339.0	2339.0	2342.2
35°	2143.8	2126.4	2116.8	2108.9	2108.9	2115.2	2134.3	2139.1	2148.6	2156.5	2162.9
37.5°	1812.1	1810.6	1821.7	1831.2	1855.0	1882.0	1915.3	1943.9	1970.8	1989.9	2008.9
40°	1453.5	1493.2	1524.9	1569.4	1605.8	1658.2	1718.5	1767.7	1813.7	1847.1	1882.0
42.5°	1134.6	1185.4	1252.0	1317.1	1382.1	1453.5	1532.9	1601.1	1661.4	1707.4	1743.9
45°	883.9	953.7	1034.6	1117.1	1201.2	1290.1	1372.6	1442.4	1505.9	1553.5	1590.0
47.5°	712.5	788.7	880.7	971.1	1066.3	1160.0	1252.0	1312.3	1364.7	1402.7	1436.1
50°	588.7	669.6	766.4	869.6	964.8	1058.4	1137.7	1196.5	1239.3	1272.6	1293.3
52.5°	491.9	577.6	680.8	783.9	879.1	964.8	1036.2	1080.6	1115.5	1139.3	1158.4
55°	406.2	488.8	585.6	682.3	776.0	856.9	915.6	948.9	975.9	990.2	1001.3
57.5°	331.7	407.8	496.7	585.6	666.5	733.1	779.1	812.5	825.2	836.3	834.7
60°	260.3	331.7	412.6	488.8	558.6	612.5	645.8	664.9	674.4	679.2	676.0
62.5°	204.7	269.8	331.7	398.3	449.1	495.1	526.8	526.8	531.6	533.2	537.9
65°	152.3	201.5	255.5	304.7	345.9	376.1	393.6	398.3	404.7	403.1	399.9
67.5°	112.7	149.2	188.8	225.3	253.9	272.9	285.6	296.8	295.2	292.0	290.4
70°	77.8	101.6	136.5	158.7	179.3	198.4	201.5	203.1	204.7	206.3	203.1
72.5°	54.0	71.4	90.5	109.5	122.2	130.1	138.1	139.6	139.6	139.6	138.1
75°	27.0	36.5	54.0	61.9	73.0	76.2	82.5	82.5	87.3	80.9	79.3
77.5°	23.8	28.6	38.1	44.4	49.2	54.0	55.5	60.3	58.7	55.5	57.1
80°	14.3	17.5	23.8	27.0	33.3	34.9	36.5	38.1	36.5	38.1	38.1
82.5°	11.1	12.7	15.9	15.9	20.6	20.6	22.2	22.2	23.8	23.8	23.8
85°	6.3	11.1	9.5	19.0	12.7	12.7	15.9	19.0	15.9	15.9	19.0
87.5°	6.3	6.3	4.8	6.3	6.3	6.3	7.9	9.5	9.5	11.1	9.5
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: P249262

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2956.3	2956.3	2956.3	2956.3
2.5°	2961.0	2964.2	2959.4	2957.8
5°	2965.8	2965.8	2962.6	2962.6
7.5°	2965.8	2965.8	2961.0	2957.8
10°	2953.1	2953.1	2948.3	2945.1
12.5°	2929.3	2929.3	2927.7	2922.9
15°	2899.1	2899.1	2892.8	2888.0
17.5°	2857.9	2861.0	2853.1	2853.1
20°	2813.4	2811.9	2805.5	2802.3
22.5°	2767.4	2764.3	2762.7	2753.1
25°	2718.2	2715.1	2710.3	2705.5
27.5°	2634.1	2632.6	2627.8	2621.4
30°	2505.6	2504.0	2497.7	2497.7
32.5°	2339.0	2337.4	2331.1	2332.7
35°	2166.0	2172.4	2169.2	2162.9
37.5°	2021.6	2026.4	2029.6	2026.4
40°	1901.0	1915.3	1916.9	1920.1
42.5°	1772.5	1791.5	1797.9	1801.0
45°	1618.5	1636.0	1650.3	1647.1
47.5°	1461.5	1474.1	1486.8	1477.3
50°	1310.7	1318.6	1323.4	1323.4
52.5°	1167.9	1167.9	1166.3	1167.9
55°	1004.5	1004.5	998.1	1001.3
57.5°	833.1	836.3	831.5	823.6
60°	674.4	666.5	663.3	658.5
62.5°	525.3	525.3	514.1	528.4
65°	393.6	388.8	384.0	382.4
67.5°	285.6	284.1	279.3	277.7
70°	201.5	195.2	193.6	190.4
72.5°	134.9	134.9	131.7	131.7
75°	82.5	74.6	73.0	74.6
77.5°	57.1	55.5	55.5	54.0
80°	38.1	36.5	39.7	34.9
82.5°	23.8	25.4	23.8	25.4
85°	15.9	19.0	17.5	17.5
87.5°	9.5	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)